



Daffodil
International
University

Internship Report
Flutter Mobile Apps Development at Excel IT AI

Submitted by

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This Project report has been submitted in fulfillment of the requirements for the Degree of
Bachelor of Science in Software Engineering.

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Declaration

I am Imam Hasan, ID: 181-35-329, a student of Daffodil International University. I am declaring that I have completed the internship as Junior Software Engineer in **Flutter Mobile Application Development in Excel IT AI** under the supervision of **S A M Matiur Rahman**, Department of Software Engineering. The Internship Report on **Flutter Mobile Application Development** has been prepared for the partial fulfillment of the Practicum of Bachelor of Software Engineering. I am also declaring that this report has not been prepared or submitted previously for any other purpose, reward, or presentation by anyone rather than me. This is also declared that there is no plagiarism or data falsification and materials used in this report from various sources and sites.

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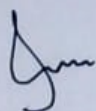
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Approval

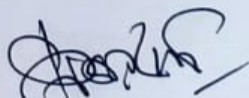
This **internship** entitled on “*Internship on Flutter Mobile Apps Development*”, submitted by **Imam Hasan (ID: 181-35-329)** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

BOARD OF EXAMINERS



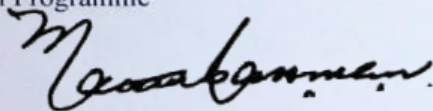
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Acknowledgment

In the name of **ALLAH** who is the most merciful and the most graceful.

I would like to thank my supervisor, **S A M Matiur Rahman, Associate Professor**, Department of **Software Engineering**. I am extremely grateful and indebted to him for his expert, sincere and valuable guidance and encouragement to me.

I would like to express my sincere thanks to **Dr. Imran Mahmud**, Professor, and Head of the **Department of Software Engineering** for his constant encouragement.

I would like to thank those who were helped in my internship with their important suggestions. I am pleased and proud to express my feeling of gratefulness and profound respect to our respected faculties of the Department of Software Engineering, for taking this opportunity.

Finally, I wish to thank my parents who have been a great source of inspiration to me. Without their support, I would not have reached where I am today.

Letter of Transmittal

December 20, 2021

To

S A M Matiur Rahman

Associate Professor

Department of Software Engineering

Daffodil International University

Subject: Submission of the Internship Report.

It is a great pleasure to have the opportunity to submit my internship report on the experience gained during my internship period in **The Mobile Application Development**. I have prepared this report by the instructions given by you and the university. I expect this report to be informative as well as comprehensive.

Working in **Excel IT AI** was inspiring and a great learning experience for me. I hope this knowledge will facilitate me a lot in my future career endeavors. I have given utmost care to be as thorough as possible in preparing this report. With my limited knowledge, I have tried my level best to prepare the report worthwhile.

I sincerely hope that this report meets your approval and demonstrates my ability to present an internship report. I would be glad to present you with any clarification if required.

Sincerely Yours,



Imam Hasan

ID: 181-35-329

Department of Software Engineering

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Chapter 1

Introduction

1.1 Introduction

I interned in the Mobile Application Development Team at Excel IT AI as part of my internship for the Undergraduate program of Bachelor Science in Software Engineering at Daffodil International University (DIU). Internships are frequently linked to a student's academic and professional aspirations, and they allow students to learn about real-world projects and work situations. Cross-platform mobile application development has always piqued my curiosity. This paper is based on my internship in this subject, which allowed me to work in Excel IT AI.

1.2 Rational

Internships aid in the development of confidence, etiquette, and work habits, all of which contribute to success. The internship experience has several benefits and may be used to earn undergraduate application/technical elective credits. Internships provide students with invaluable learning experiences and opportunities as they begin their careers. I'm excited to begin my report because I want to emphasize the value of my academic knowledge as well as my practical experience. It allowed me to think in new ways and put the things I gained in theory class into context.

1.3 Background

Mobile Application Development is one of the most demandable sectors in the Software Engineering field after releasing flutter(UI development tool-kit and framework of the dart) and Flutter is a cross-platform mobile application development tool that can develop applications for Android, IOS, Web, Mac, Linux & Windows with a single codebase.

During my college life, when I learned about programming and software development, I thought that if I write a single code in a programming language it would convert to Mobile, Web & Desktop applications. Coincidentally, Google has developed Flutter, a dart framework UI toolkit for crafting apps for mobile, web, and desktop. When I learned about this technology, I had a focus on it and wished to develop my career with this technology.

From June 2021, I have applied for a job in some of the Software companies as an Intern Software Developer (Flutter). Because I have chosen Internship for my Final Year Thesis/ Project/ Internship. I have got an opportunity to join as Intern Software Engineer at Excel IT AI, and so I joined there as an Intern Software Developer from August-01, 2021. After completing 4 months internship on November 30, 2021 successfully, I have got the opportunity to be a permanent jobholder from December 01, 2021 as per my performance in Excel IT AI. Now I am working there as a Junior Software Engineer in the Mobile Application Development Team.

1.4 Scope of the study

This report is based on my Internship in mobile apps development at Excel IT AI. Along with this, the report will also partially describe all the workflow during my Internship period. This report is mainly important for software development-related organizations to understand the system or software application development system that includes mobile(android & iOS), web & desktop(Linux, mac & windows) application development technologies.

System or software application development with flutter is a technology of multipurpose uses. Flutter, a framework of Dart language that is developed by Google, is a cross-platform mobile application development tool. It can develop applications for Android, IOS, Web, Mac, Linux & Windows by writing a single codebase. But in my office, we use these tools to develop only android & iOS applications.

Another scope of the study is Mobile application(android & iOS) development process in the office environment. Technology for mobile app development is always growing at a breakneck speed. Mobile applications and the newest app developments are now benefiting both businesses and consumers. More than trends and technology are involved in a successful and good application development technology.

1.5 The main objective of this report

The primary objectives of this report are to meet the criteria of the BSc program and to exhibit the knowledge and information gained during my internship with the company.

The other important goals are as follows –

- Learned about the development services work environment in office
- Got working experience before the job that helped me to be professional and get a permanent job.
- The experience that I have gained from the office, would improve my future professional career.
- Opportunity to work & learn with teamwork,
- To stronger the Time management skills
- Their cross-platform mobile app development field is my area of interest.
- Got the facility to learn & work.
- All the colleagues, employees, and staff are cooperative.

1.6 Summary of the report

- The first chapter of this report discusses Mobile Application Development with flutter, the background of this report, and the scope of the study. This chapter also discusses the main objective of this report. What is actually done in this report and project that is overall discussed in chapter one.
- The second Chapter discusses the overview of Excel IT AI. Discuss their employee description and all department responsibilities. This chapter also discusses their services and how they give their services and manage their client, company location, and other information about the company.

- Chapter three shows the existing projects of Excel IT AI. This chapter also discusses the working procedures of existing projects. Also, discuss the current equipment that they are using for giving their products & services.
- In chapter four discuss the proposed projects that I have worked on during the internship period. It also discussed which protocol suggested a proposed network with its benefits. At last, discuss the benefits and features of the proposed network and the difference between the existing network and the proposed network.
- Chapter five discusses Performance, results, and discussion about this project.
- Chapter six discusses the development conclusion and bibliography.

Chapter 2

Organization Overview

2.1 Company Profile

At Excel IT AI, we develop innovative and creative products and services that provide total communication and information solutions. Among a plethora of services, web design and development, mobile application design and development of tailor-made applications, ERPs, CRMs, e-commerce solutions, business-to-business applications, business-to-client applications, managed hosting and internet portal management are the few that we offer. Satisfied clients around the globe bear testimony to the quality of our work. As a leader in technology exploring, Excel IT AI is committed to exporting quality software worldwide. The general purpose of Excel IT AI is to develop and promote advanced information technologies for multi-user operations. Excel IT AI business philosophy is to assure the highest quality product, total client satisfaction, timely delivery of solutions, and the best quality-price ratio found in the industry. Our emphasis is on offering a high degree of product user-friendliness through a positive, creative and focused company staff. With our vast array of software development, product development, we believe the creation of a robust, user-friendly, and functionally rich software solution is a risk-free proposition for Excel IT AI and Client. We are confident that we will be able to create an exceptional system that will meet and exceed the Client's expectations and vision for the proposed web application.

2.2 Excel IT AI Department Hierarchy

Excel IT AI has several departments according to the assignment. The department's development are services drawote-

I. Developer Team: This team works in project development related work. There are some sub-team of developer team thats are -

- **Mobile Team:** They develop all the mobile applications for the company & clients.
- **Web Team:** They develop all the web applications for the company & clients.

- **UI/UX Design Team:** They provide the designs of software applications to the mobile & web team.
- **SQA Team:** SQA(Software Quality Assurance) team works in software testing.

II. Service & Customer Department: A customer service representative communicates with a company's customers in order to provide them with information and answer questions about products and services. They also deal with consumer issues and assist in their resolution. Customer support agents usually get their information by making a phone call.

III. Accounts Department: Accounting departments give accounting and financial assistance to the organizations to which they belong. They keep track of accounts payable and receivable, inventories, payroll, fixed assets, and other financial factors. The department's accountants go over each department's records to evaluate the company's financial situation and any modifications that are needed to manage the organization efficiently.

IV. Marketing Department: The Marketing Department is responsible for promoting an organization's business and mission. The department is in charge of raising revenue, expanding market share, and contributing to the company's overall growth and profitability. In a small corporation, the marketing department may consist of just one person, or it may comprise a marketing director or manager, as well as marketing executives in charge of activities including advertising, publications, and events.

V. Network & IT Support Team: They worked in the Network & Customer monitoring section and experienced lots of things about network maintenance and customer support.

VI. HR Department: An HR department provides services to all employees and issues various letters, such as appointment letters. They keep track of all of the employees' needs, raise their salaries, and provide bonuses. This department distributes the job announcement, reviews the applicant's CV, and issues the appointment letter.

2.3. Services of Excel IT AI

Excel IT AI likes to provide solutions to difficult problems and create high-performance software. Their services are Web Application & Mobile Application Development, UI/UX design, Custom Software Development & Digital Marketing. They offer a wide range of consulting, development & quality services with 100% satisfaction.

Mobile Application Development: Our mobile application development solutions include various domains and topics. This service is about creating mobile applications for end-user smartphones, tablets, and other devices. In general, you can get full-cycle software development with all the necessary stages: business analysis, architecture planning, UI/UX design and prototyping, development, testing and QA, release with deployment or publication, and further tech support. If you need unique mobile application development, we're ready to handle it. You can get solutions for iOS, Android, and more exotic mobile operating systems like Chrome OS, Tizen, or Ubuntu Touch. Apart from native solutions (developed for the specific platform), we provide hybrid and cross-platform mobile applications that work seamlessly on different devices. Don't hesitate to contact us if you need to consult or order custom mobile development services. More precisely, the services provided by our mobile app company include: Smartphones appeared and changed our life completely. Now, the tiniest phone is more powerful than the computers of the past. No surprise that mobile app development covers all our needs nowadays, from communication to work and leisure. That's why businesses focus on mobile app development heavily, creating various solutions for individuals and other companies. If you want to get a brand-new mobile application, improve or redesign any existing tool, test demand with the MVP, or just consult about mobile app development services, you're in the right place. We research, design, build, deploy, test, and support native, hybrid, and cross-platform mobile apps for Android and iOS. Our mobile app development company is focusing on effective solutions that meet the goals of our clients. You can reach us to get the first free consultation at any time.

Web Application Development: Talking about custom web application development, we mean a whole range of distinct services. They include enterprise and customer research, design wireframing and prototyping, architecture planning, frontend and backend coding, optimization, maintenance, DevOps, and so on. Web app development helps people learn more about your company, check the services and products, contact your team, interact with various solutions: catalogs, order forms, videos, etc. If you need a new tool, want to improve an existing app, or require thorough research, we're ready to help with all these web application development services. We provide custom web app development, cross-platform development, design, web consulting, legacy modernization, system integration, and lifelong support. You can quickly get the solution you need, from simple websites to advanced dynamic web apps with the tailored client- and server-side modules. Don't hesitate to ask us about our web application development company if you have any questions or ideas to discuss.

UI/UX Design: UI/UX design services include two critical aspects: user interface and user experience. The user interface or UI is all about the visual look of your application or website. All your customers interact with the same interface that acts as a bridge between people and your services. Users interact with the software through interfaces, so it's essential to make everything beautiful, clean, simple, and understandable. Our UI/UX design studio knows how to create cool interfaces. User experience is a more comprehensive term that includes UI. It focuses on general interactions, ways in which customers access your solutions, move through them. Robust UX design helps you to guide users, ensuring that they can find what they need quickly and smoothly. UX things are unique for each user. Hence, you want to keep the experience responsive and personalized. Overall, our UI/UX design company often combines these two parts as they're highly interconnected. You can get various tasks completed by our team of professional designers in this area.

Custom Software Development: Custom software outsourcing is all about unique products and services. You can get virtually whatever you need, from AI satellite data analysis software to regular online shops. Through custom software outsourcing experience, you get a significant

market advantage. The thing is that your bespoke software will be unique and unavailable to competitors, unlike ready-made packages by product vendors that sell their solutions to different teams.

Digital Marketing: Our element advanced specialists execute powerful web advertising arrangements in view of your business targets. With 100% modified strategies and centered site advancement methodology, we expand client engagement. Our group of digital marketing experts gives customer accomplishment on each venture doled out from technique and configuration to web showcasing and versatile improvement. We will offer you some assistance with exceeding your desires.

2.4 The Vision

We are the leader in providing the best system or software like web & mobile applications at low cost. We ensure that our customers are successful by understanding and being responsive to their needs, as well as working collaboratively with them to provide one-stop faster, cost-competitive and scalable services that create competitive advantages in the world of digital communication. Excel IT AI aims to make a high-class Customer Care Department respond within a MINUTE against any complaint & it will close the day with Zero complaints. The company will reach their customer beyond their expectations & they will proactively find out any issue regarding Service for extra care.

2.5 The Mission

Since our establishment in 2021, we have realized the importance of time values, culture, design and development. We are not just a team of high-tech professionals. We are wealthy problem solvers and strong entrepreneurs. We are a team of over 30 relentlessly curious project managers, business analysts, software engineers who love their work as much as you do. We make the most of our potential by providing strong project leadership, the latest technological best practices and clear advice for each project we undertake. We like to solve difficult problems and create easy-to-use high-performance software. We design, we create, we support, we ask the right questions. We believe in efficient communication and thoughtful project management throughout the entire work process. Every day, we build lasting relationships with our clients around the world without losing the drive to strive for excellence and innovation.

2.6 Values

We believe that how we do business is the key to our success. Our commitment is exemplified by the Excel IT AI way, a key value statement that highlights the importance of customer and market focus, high performance, honesty and respect, spirit, cooperation, and people development. Our employees are the key to upholding these values and we are committed to providing a work environment for our employees that encourages the Excel IT AI approach. We are extremely proud of our employees, who take seriously their responsibility to embody these values in their relationships with each other and with our customers, suppliers, and the community. We are very proud of our commitment to the communities where our workers live and work. We believe that being part of the community involves the responsibility to contribute more than just the job.

2.7 Specialities of Excel IT AI

Strong business relationships, we think, are built on trust and reliability. We work closely with your team to design and build the ideal platform and we are dedicated to providing fair and transparent pricing throughout the development process. We provide you with all the information you need to make an informed business choice. Our staff has extensive knowledge and experience with a wide variety of System and Software technology stacks. Whatever the specific needs of your company, we can help you to find a solution.

Chapter 3

Activities

3.0 Activities

Excel IT AI views interns as valuable members of the team as well as workers. Interns get the opportunity to learn about the company's genuine business and professional environment. Through its unique culture, Excel IT AI provides a learning environment for interns. With the company's mobile application development team, I worked as an intern software engineer.

3.1 Work Load

The quantity of work that an individual has to accomplish is referred to as their workload. The actual quantity of labor and the individual's impression of the workload are two different things. Workload can be characterized as either quantitative (the quantity of work to be done) or qualitative (the type of work to be done) (the difficulty of the work).

As an intern on the mobile application development team, my first and greatest task was to learn the organization's work process. A team conversation was set up to assist me grasp all of the terms and conditions of the organization, and necessary material was supplied to acquire an overview of their structure. After successfully completing the tasks, they included me with their main developing team.

3.2 My Main Roles in Excel IT AI

My main role was learning and developing their mobile applications. Firstly they gave me some small tasks for practice and to justify my developing skills. In my internship period I have contributed to several interesting mobile apps development that improved my skills and explored my curiosity in flutter mobile apps development. I have designed, developed, tested and deployed several apps. There I had to focus on the quality and structure of the app functionalities. I should always think creatively about how to design well, make more user friendly and how to get best performance from the apps. I also contributed to the firebase database for apps user authentication and users data storing. I had full access to data in the firebase firestore for maintenance of the database server, so I have to update, delete, change or modify the data in firebase firestore if needed.

3.3 My some other Responsibilities

In developing our mobile applications, my some other responsibilities are given below:

- Execute full software development life cycle (SDLC)
- Develop flowcharts, layouts and documentation to identify requirements and solutions
- Write well-designed, testable code
- Integrate software components into a fully functional software system
- Document and maintain software functionality
- Troubleshoot, debug and upgrade existing projects
- Deploy programs and evaluate user feedback
- Comply with project plans and industry standards
- Ensure software is updated with latest features

3.4 Tools & Technologies

In developing our mobile applications, we are using many tools and technologies. Some of these describing below:

- IDE: Android Studio/VS code for write & editing code
- FLutter SDK & Java JDK.
- Language: Dart & Flutter for developing front-end
- Database: Firebase, Fire-store, MY SQL, SQLite
- SDLC: Following Agile model to development
- Rest API from third-parties
- JIRA for testing software
- Postman for testing API
- GitHub for version controlling

3.5 Other Relevant Activities

Although I was assigned to the mobile application development team, I was able to share and discuss any issues with everyone on the team. So I learned about the functionality, working methods and systems used by these teams. I enjoyed this opportunity to be able to learn how each team works; Admittedly, I was amazed at how important each team's operation was. We were all so friendly and helpful colleagues. So the office environment never felt monotonous.

Chapter 4

Existing Projects That I have worked in Excel IT AI

4.0 Existing Projects

In this following chapter I will discuss the projects that I have included with. In some projects I have worked individually like BMI Calculator, Weather App, Google Map Integration, Chat Room, I-School for my skills testing period in office. After successful completion of these tasks they have included me in their team to develop their main projects that are Meal Monkey, Ei Khali. Some of the project overviews are given below-

4.1 Weather (Weather Report App)

Weather is a weather application that is fully developed by me. By using this app you can know about the weather updates of your current location and your search location. In this application I have used the meta weather api to get data from the backend server, used images and icons from the internet & flutter framework of dart programming language for the frontend UI design. The source code link is: <https://github.com/imam-swe/Weather-App>

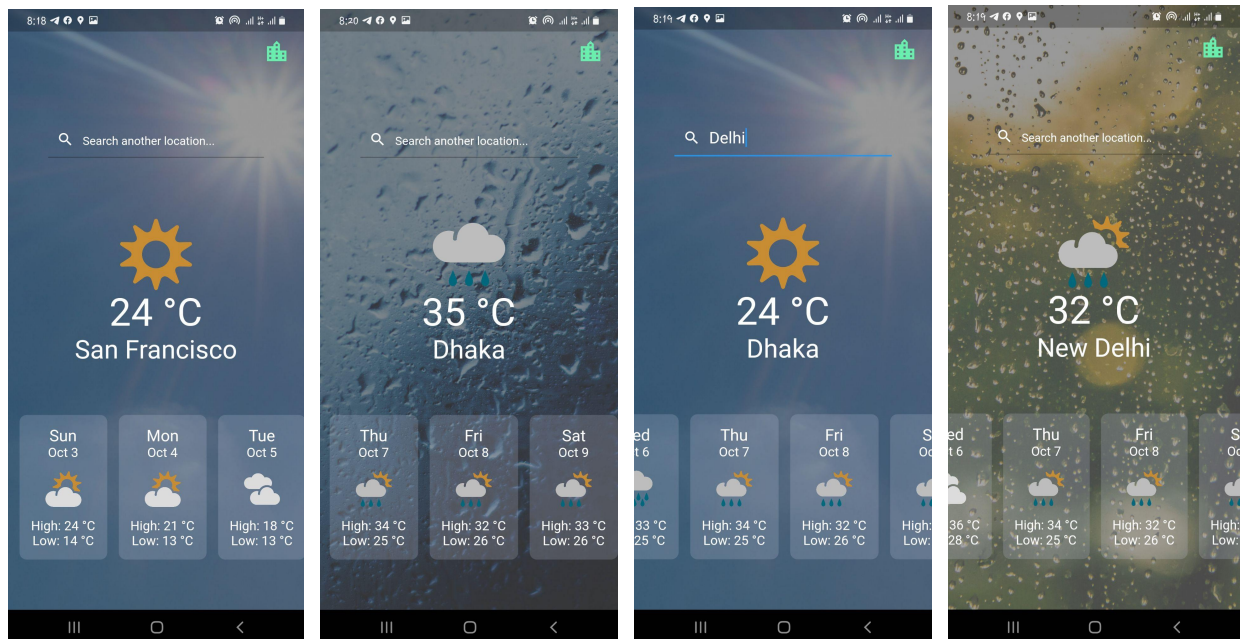


Figure: Weather App

4.2 ChatRoom (Group Chatting App)

ChatRoom is a social communication application. By using this app you can communicate with others in a chatroom who use this app like mig33, the first arab social & communication app. It is also fully developed by me. In this application I have used firebase for user authentication & firestore for data storage as backend, used images and icons from the internet & flutter framework of dart programming language for the frontend UI design. The source code link is: <https://github.com/imam-swe/Chat-App-Demo>

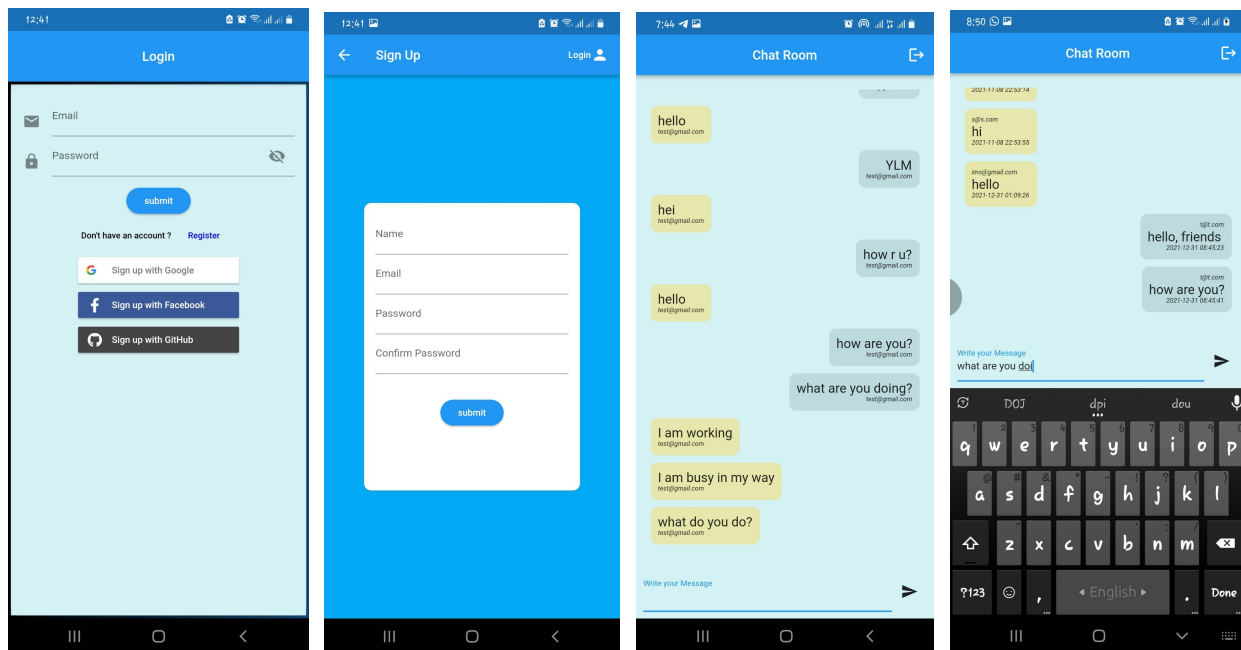
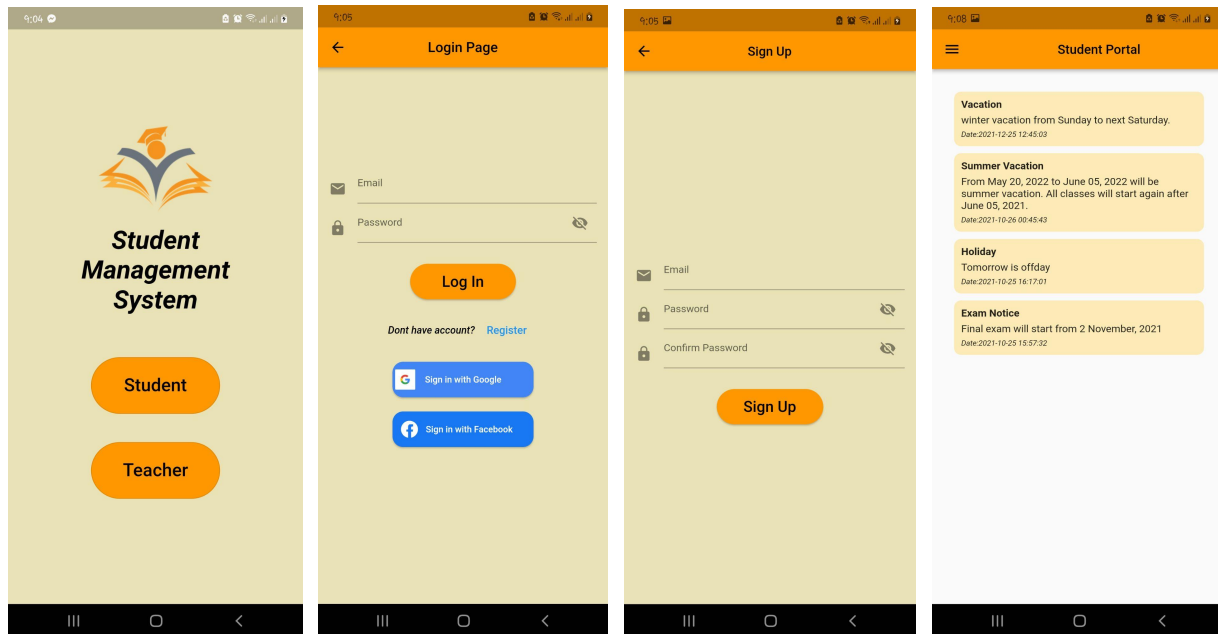


Figure: ChatRoom App

4.3 I-School (School Management System)

I-School is an application of an online school management system. By using this app- teachers can update class routines & notices, publish student results, communicate with students and other teachers. take exams & class online . Students can see their notice, exam & class schedule, attend online classes, communicate with teachers and students. All students & teachers should register first and set up their profile on this app. It is also fully developed by me. In this application I have used firebase for user authentication & firestore for data storage as backend, used images and icons from the internet & flutter framework of dart programming language for the frontend UI design. The source code link is: <https://github.com/imam-swe/Student-Management->



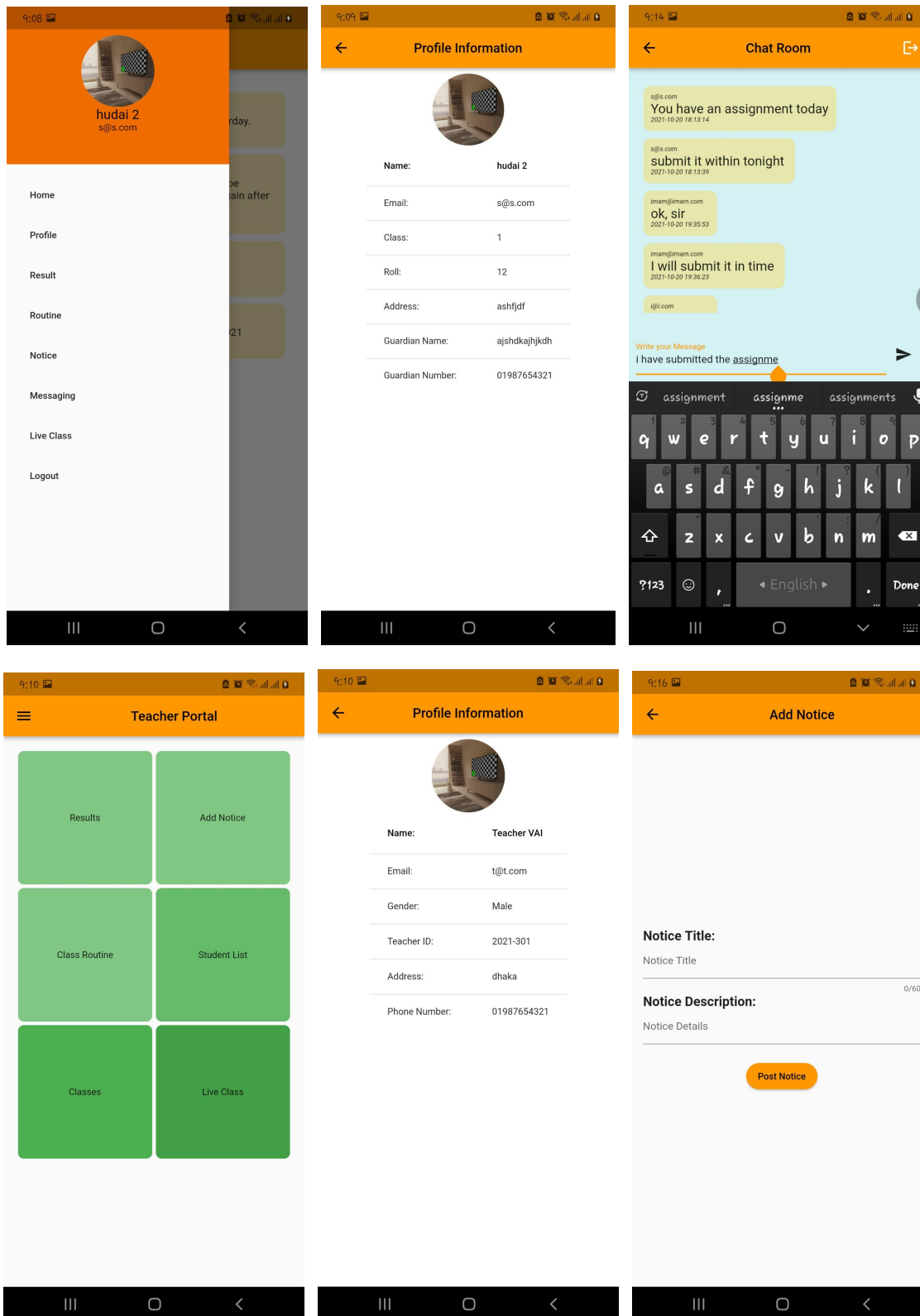
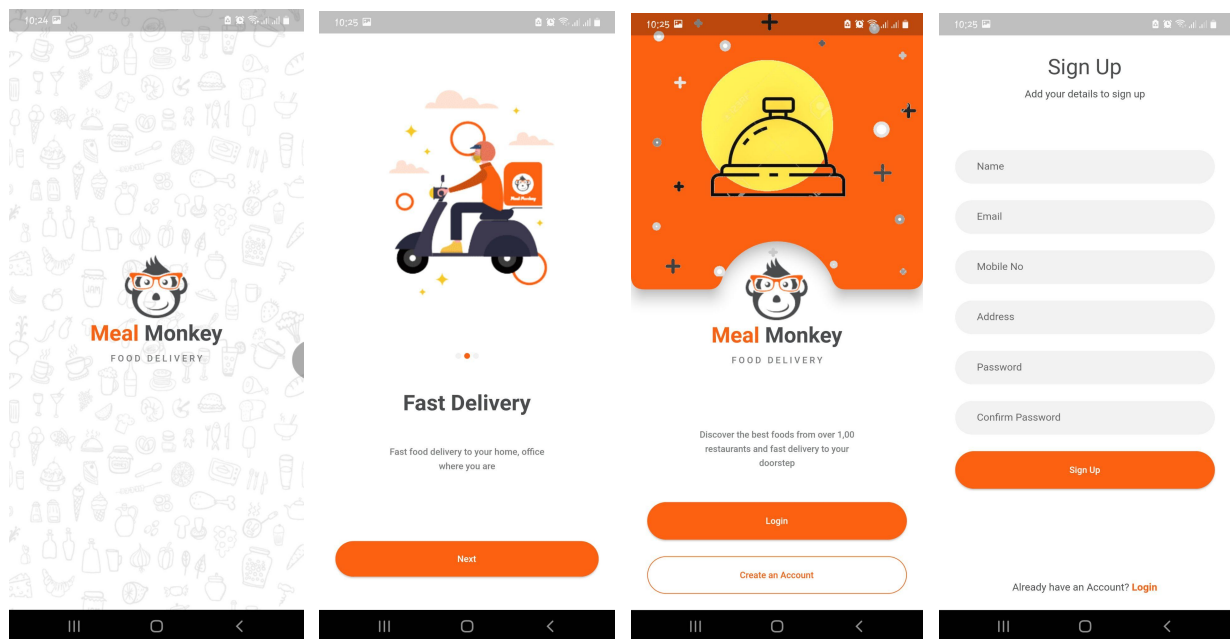
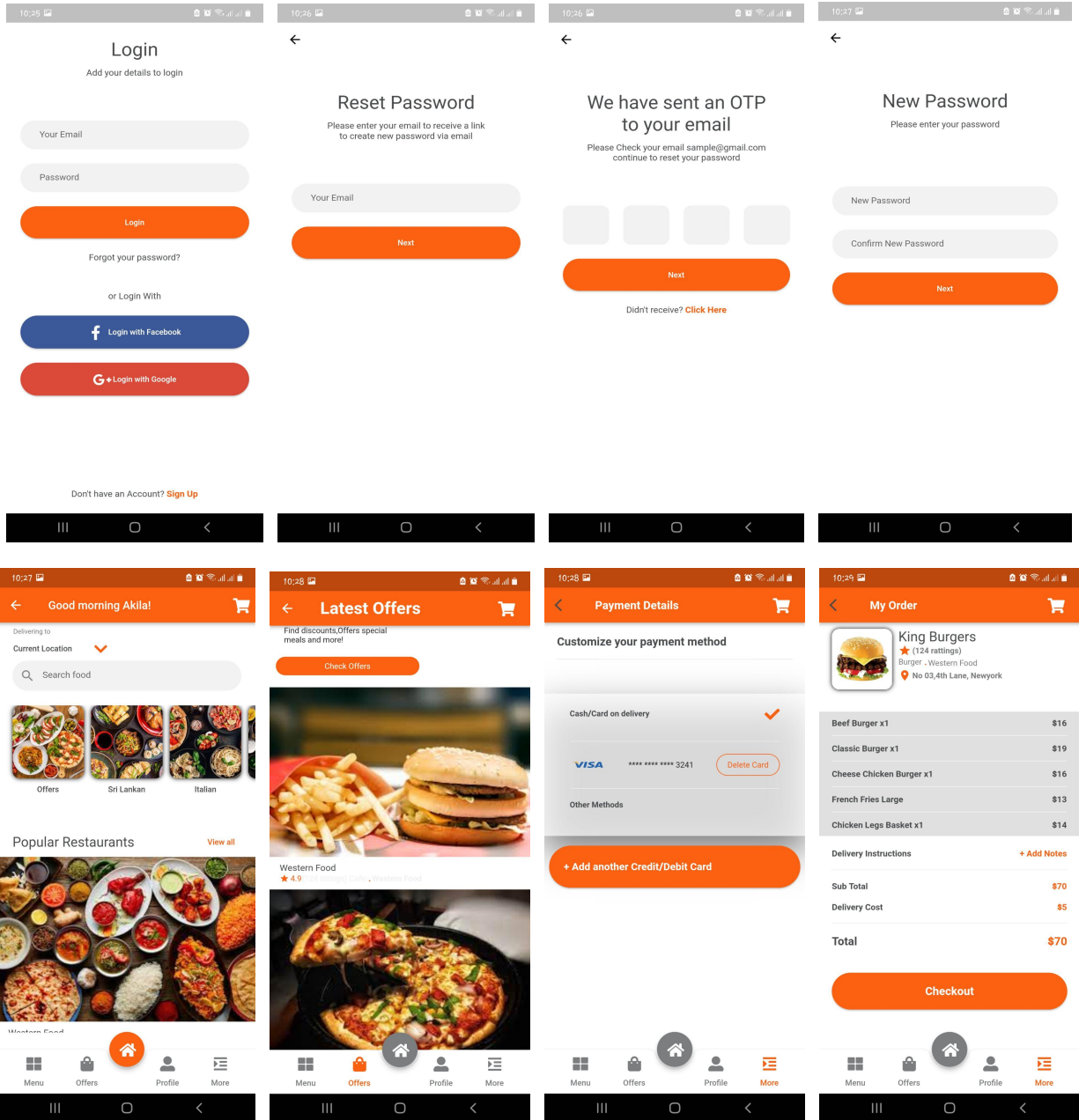


Figure: I-School App

4.4 Meal Monkey (Food Delivery App)

Meal Monkey is a food delivery app like foodpanda. This is a developing project of this company. A team of 2 people (Me and my other team member) is developing this project. The overview of this project is given below.





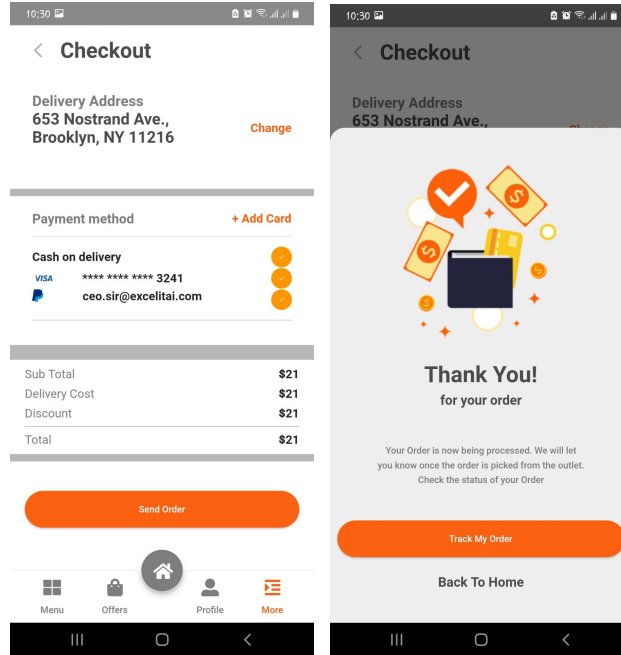
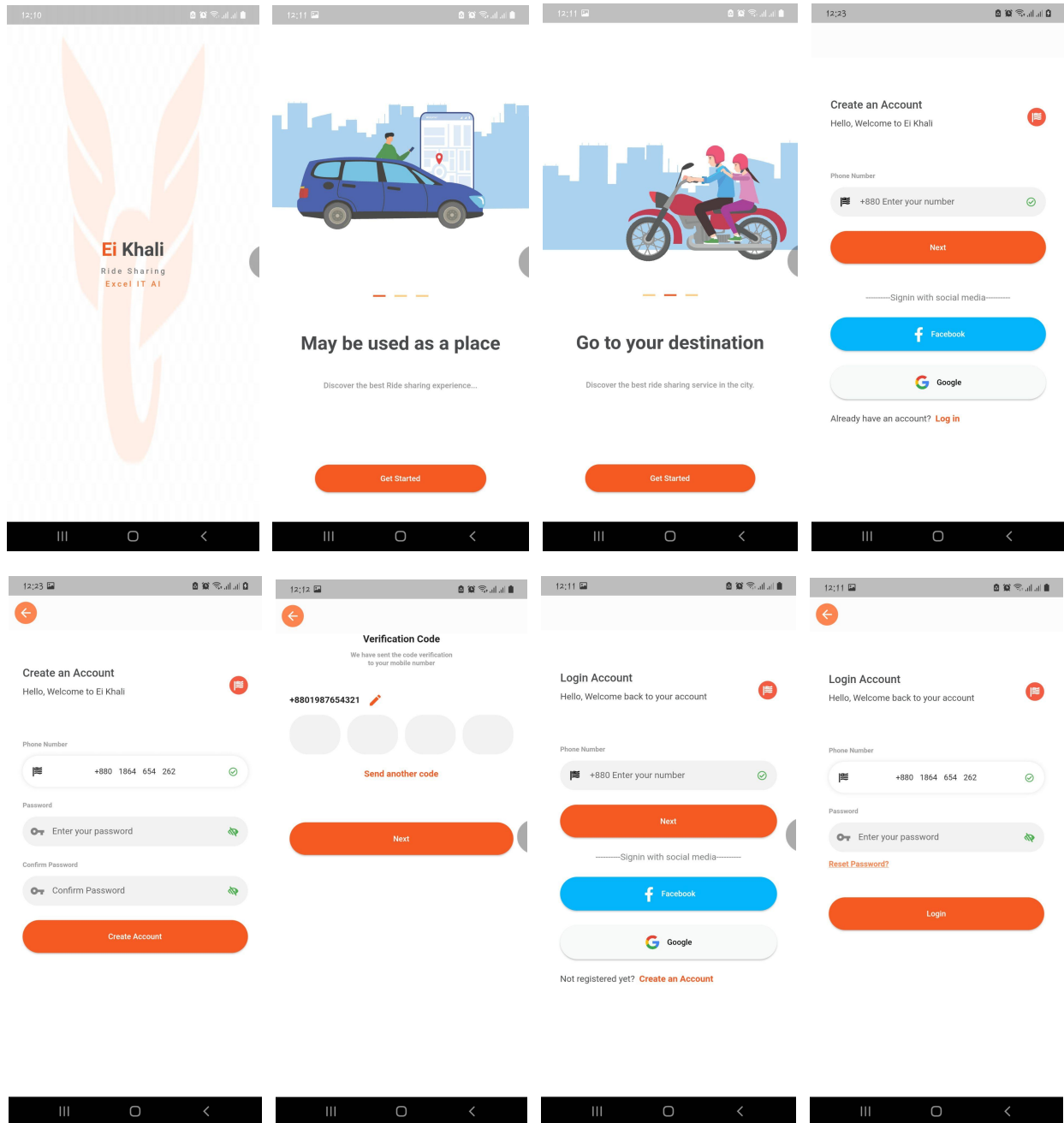


Figure: Ei Khali

4.5 Ei Khali (Ride Sharing App)

Ei Khali is a ride sharing app like pathao. This is a developing project of this company. A team of 4 people (Me and my other team member) is developing this project. The overview of this project is given below. In this application I have used firebase for user authentication & firestore for data storage as backend, used images and icons from the internet & flutter framework of dart programming language for the frontend UI design.



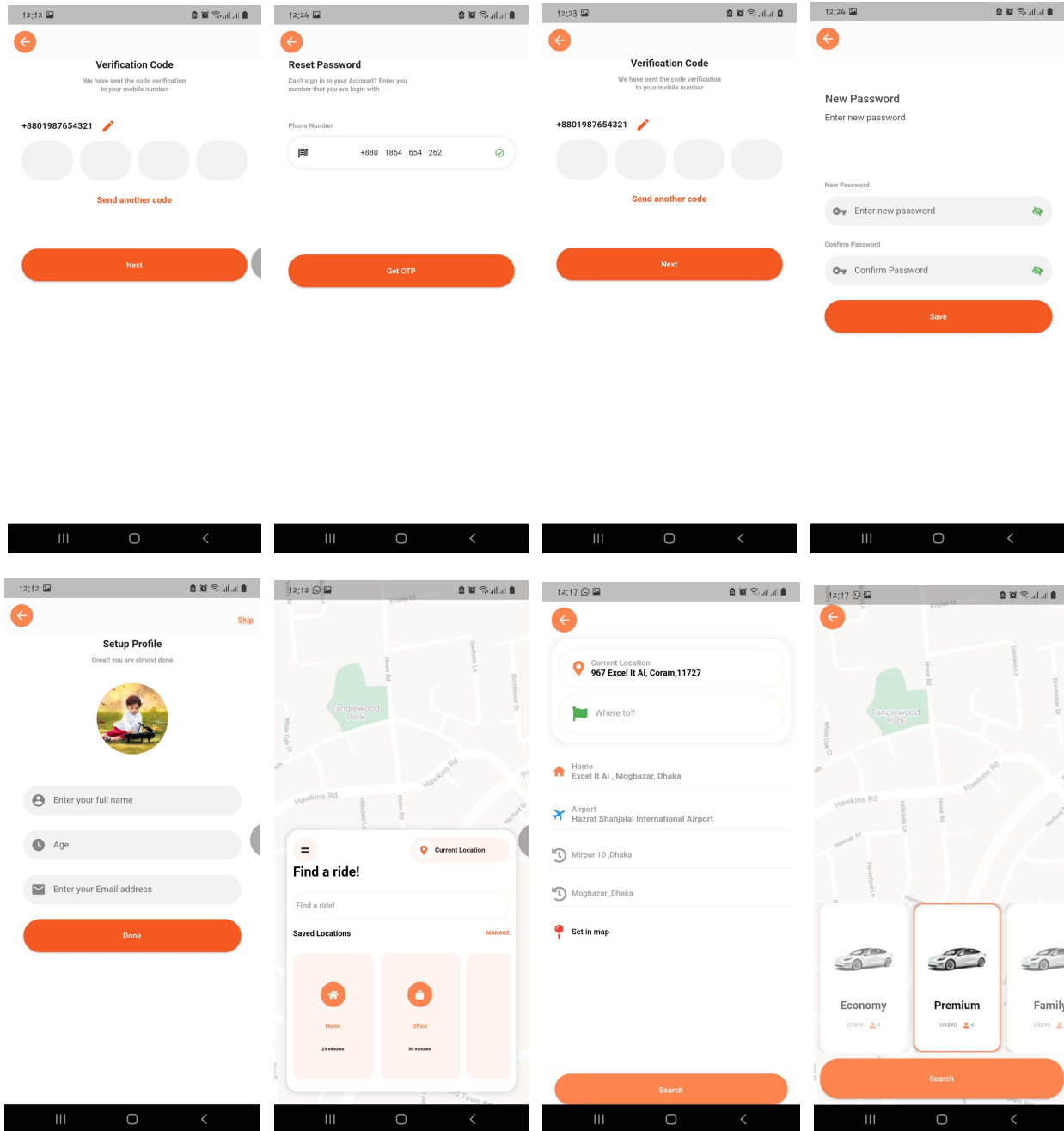


Figure: Ei Khali

Chapter 5

Constraints/Challenges

5.0 Constraints/Challenges

I couldn't have asked for a better internship. Working at Excel IT AI has given me a better understanding of the actual world of work and how a multinational corporation operates. Without a doubt this is one of the most fascinating and memorable events of my life. During the internship program, however, various concerns and problems were observed and identified.

5.1 Identified/Observed in the organization

The study's biggest constraint was data collecting, as the majority of the material was classified and secret. In order to safeguard corporate confidentiality, Excel IT AI may not share all information linked to the reports. As a result, gathering the key facts for this study is challenging for me. Furthermore, several department personnel were not properly knowledgeable about the entire charge and billing procedure, making data collecting more challenging. The report's development was further hampered by time restrictions.

5.2 Academic Preparation

Theoretical expertise from academia was clearly beneficial in comprehending the basic development process. However, the assignment I was given necessitated some advanced understanding of mobile app development as well as acclimating to the office environment..

5.3 Personal/Professional Skills

- **Technical Skills:**

First, the internship program enabled me to gain some advanced knowledge about mobile apps development. Working in an organization has helped to understand the office environment. By working with companies, I have gained practical experience exploring my skills at the corporate level. The internship program has helped me improve my technical skills through intensive use of new technology. I had the opportunity to learn how to develop and maintain real life projects that I did not learn before joining the internship.

- **Analytical Skills:**

My analytical abilities have been enhanced thanks to an internship at Excel IT AI. Analytical abilities include the capacity to solve issues in a scenario analysis as well as the ability to employ excellent reasoning. Working on numerous Oracle problems and watching operational performance has strengthened my analytical skills, I feel.

- **Interpersonal Skills:**

During my internship, I improved my communication skills, time management, and collaboration. Interactions with my superiors and other senior personnel improved my interpersonal abilities. During my internship, I learnt how to communicate with supervisors and senior managers.

5.4 Acquired Knowledge

I was absolutely unfamiliar with the surroundings when I started my internship at Excel IT AI. I, on the other hand, was always ready to learn new things. As a fresher, I've had to deal with the difficulty of doing multiple projects. But, day by day, I became accustomed to it and gained confidence. As a result, I found it tough and challenging to adjust to this new daily schedule. Despite the fact that learning new things is always difficult and difficult, I believe I have been able to meet these hurdles.

5.5 Consequences to Organization

As an intern, my goal was to write standard code, explore my skills and give them a good output. Occasionally I try to give advice on existing projects and how to improve them.

5.6 Implications to University's Internship Program

I would like to express my gratitude to the Faculty of Science and Information Technology for keeping the internship credit in the undergraduate program curriculum and for giving me the opportunity to enjoy art-based work and the field of work with interest. I am also grateful to the Faculty of Science and Information Technology and the Placement and Alumni Office, DIU for arranging the opportunity to choose an institution of their own interest and complete an internship there.

5.7 Effects on Personal/Professional Skills

The first taste of my professional life came in the form of an internship, which helped me develop my personal talents. I developed a positive outlook, a strong sense of duty, and the ability to be imaginative, resourceful, open, and open to change. It has awakened in me a lifelong desire to learn. I will never miss the opportunity to thank my teammates for this. They are all incredibly helpful and collaborative. They offered me plenty of time to learn about the whole IT system process. They were always willing to help me whenever I had a problem with any work anxiety. I was new to the company, and I learned many aspects of professionalism from my colleagues.

Chapter 6

Concluding Statements

6.1 Summary

Excel IT AI is one of the best software companies. They provide software and system integration services. They ensure that our customers succeed by understanding and responding to their needs, as well as working with them to provide fast, reasonable cost and measurable service that creates competitive advantage in the world of electronic communication. I worked with Excel IT AI's mobile apps development team. There was a lot of research and analysis discussed earlier where the development of the company could take place. By doing this study I have gained practical knowledge of the process of mobile apps development in a corporate company. In addition to knowing corporate culture, this report has helped me gain a broader perspective on my future endeavors. As a final point I would say that the recruitment process of Excel IT AI is more contemporary and harmonious than other companies in the industry.

6.2 Recommendations for Future Strategic Actions

The internship provides students with a term of hands-on experience in a subject linked to their studies. This experience allows students to see how their studies are implemented in the real world, which is a wonderful learning experience.

6.2.1 Organization

Before moving on to Excel IT AI, I didn't know what it meant to be lucky. However, I am now well aware of it. At Excel IT AI, I have received so much overwhelming support from my colleagues that I will never forget. Still, not everyone is as lucky as I am. So I strongly advise you to adapt to the office environment and culture. The office should have some arrangements for leisure time that prepare an employee to always work hard. Otherwise life would be monotonous and unwelcome. So everyone should take some time out from their work to stay fresh.

6.2.2 University

Potential workers can use an internship to get experience in a certain profession or business, assess if they are interested in a particular job, create a network of connections, or earn university

module credit. I am pleased to be a DIU student because the internship course is part of the DIU curriculum. I'd like to express my gratitude to the Institute of Information Technology for providing me with the chance to prepare for a competitive work environment. It significantly improved my coding abilities. Now I'm excited to take on the world's forthcoming difficulties.

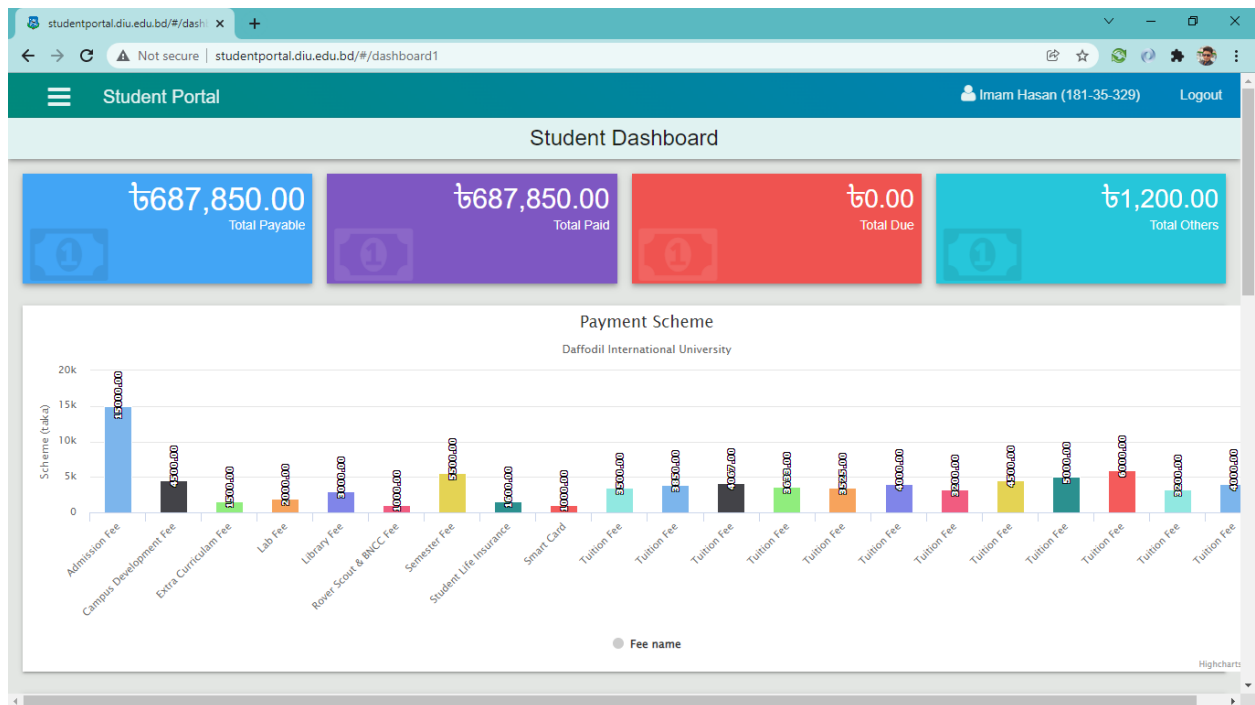
6.2.3 Professional

Internships are also beneficial to interns since they allow you to learn firsthand what it's like to work for a certain firm or in a particular field. Interns experience a number of typical difficulties, including time management. Whatever the issue, it's critical to get the most out of the internship.

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Internship Report Flutter Mobile Apps Development Submitted by Imam Hasan [Student ID: 181-35-329](#) [Department of Software Engineering Daffodil International University](#) [Supervised by S A M Matiur Rahman Associate Professor Department of Software Engineering Daffodil International University](#) This Project report has been submitted in fulfillment of the requirements for the Degree of Bachelor of Science in Software

Engineering. © All right Reserved by Daffodil International University Declaration I am Imam Hasan, ID: 181-35-329, a student of Daffodil International University. I am declaring that I have completed the internship as Junior Software Engineer in Mobile Application Development in Excel IT AI under the supervision of S A M Matiur Rahman, Department of Software Engineering. The Internship Report on Flutter Mobile Application Development has been prepared for the partial fulfillment of the Practicum of Bachelor of Software Engineering. I am also declaring that this report has not been prepared or submitted previously for any other purpose, reward, or presentation by anyone rather than me. This is also declared that there is no plagiarism or data falsification and materials used in this report from various sources and sites. Supervised By: ----- S A M Matiur Rahman Associate Professor Department of Software Engineering Daffodil International University Approval This internship entitled on "Internship on Flutter Mobile Apps Development", submitted by Imam Hasan (ID: 181-35-329) to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents. BOARD OF EXAMINERS -----
----- Chairman Dr. Imran Mahmud Associate Professor and Head Department of Software Engineering Daffodil International University -----
----- External Examiner Md. Tanvir Quader Senior Software Engineer a2i Programme ----- Internal Examiner 1 S A M Matiur Rahman Associate Professor Department of Software Engineering Daffodil International University ----- Internal Examiner 2 Syeda Sumbul Hossain Lecturer (Senior Scale) Department of Software Engineering Daffodil International University Acknowledgment In the name of ALLAH who is the most merciful and the most graceful. I would like to thank my supervisor, S A M Matiur Rahman, Associate Professor, Department of Software Engineering. I am extremely grateful and indebted to him for his expert, sincere and valuable guidance and encouragement to me. I would like to express my sincere thanks to Dr. Imran Mahmud, Professor, and Head of the Department of Software Engineering for his constant encouragement. I would like to thank those who were helped in my internship with their important suggestions. I am pleased and proud to express my feeling of gratefulness and profound respect to our respected faculties of the Department of Software Engineering, for taking this opportunity. Finally, I wish to thank my parents who have been a great source of inspiration to me. Without their support, I would not have reached where I am today. LETTER OF TRANSMITTAL December 20, 2021 To S A M Matiur Rahman Associate Professor Department of Software Engineering Daffodil International University Subject: Submission of the Internship Report. It is a great pleasure to have the opportunity to submit my internship report on the experience gained during my internship period in The Mobile Application Development. I have prepared this report by the instructions given by you and the university. I expect this report to be informative as well as comprehensive. Working in Excel IT AI was inspiring and a great learning experience for me. I hope this knowledge will facilitate me a lot in my future career endeavors. I have given utmost care to be as thorough as possible in preparing this report. With my limited knowledge, I have tried my level best to prepare the report worthwhile. I sincerely hope that this report meets your approval and demonstrates my ability to present an internship report. I would be glad to present you with any clarification if required. Sincerely Yours, Imam Hasan ID: 181-35-329 Department of Software Engineering Table of Contents
Declaration 2 Approval 3 Acknowledgment 4 1.1 Introduction 1.2 Rational 1.3 Background 1.4 Scope of study 1.5 The main objective of this report 1.6 Summary of report 2.1 Company Profile 2.2 Excel IT AI Department Hierarchy 2.3. Services of Excel IT AI 2.4 The Vision 2.5 The Mission 2.6 Values 2.7 Specialties of Excel IT AI 3.0 Activities 3.1 Work Load 3.2 My Main Roles in Excel IT AI 3.3 My some other Responsibilities 3.4 Tools & Technologies 3.5 Other Relevant Activities 4.0 Existing Projects 4.1 Weather (Weather Report App) 4.2 ChatRoom (Group Chatting App) 4.3 I_School (School Management System) 4.4 Meal Monkey (Food Delivery App) 4.5 Ei Khali (Ride Sharing App) 5.0 Constraints/Challenges 5.1 Identified/Observed in the organization 9 9 9 10 11 11 14 15 16 18 18 19 19 21 21 21 22 22 22 24 24 25 26 28 30 34 34 5.2 Academic Preparation 5.3 Personal/Professional Skills 5.4 Acquired Knowledge 5.5 Consequences to Organization 5.6 Implications to University's Internship Program 5.7 Effects on Personal/Professional Skills 6. 1 Summary 6. 2 Recommendations for Future Strategic Actions 6. 2.1 Organization 6. 2.2 University 6. 2.3 Professional 6. 2.4 Reference 34 34 35 35 36 36 38 38 38 38 39 39 Chapter 1 Introduction 1.1 Introduction I interned in the Mobile Application Development Team at Excel IT AI as part of my internship for the Undergraduate program of Bachelor Science in Software Engineering at Daffodil International University (DIU). Internships are frequently linked to a student's academic and professional aspirations, and they allow students to learn about real-world projects and work situations. Cross-platform mobile application development has always piqued my curiosity. This paper is based on my internship in this subject, which

allowed me to work in Excel IT AI. 1.2 Rational Internships aid in the development of confidence, etiquette, and work habits, all of which contribute to success. The internship experience has several benefits and may be used to earn undergraduate application/technical elective credits. Internships provide students with invaluable learning experiences and opportunities as they begin their careers. I'm excited to begin my report because I want to emphasize the value of my academic knowledge as well as my practical experience. It allowed me to think in new ways and put the things I gained in theory class into context. 1.3 Background Mobile Application Development is one of the most demandable sectors in the Software Engineering field after releasing flutter(UI development tool-kit and framework of the dart) and Flutter is a cross-platform mobile application development tool that can develop applications for Android, IOS, Web, Mac, Linux & Windows with a single codebase. During my college life, when I learned about programming and software development, I thought that if I write a single code in a programming language it would convert to Mobile, Web & Desktop applications. Coincidentally, Google has developed Flutter, a dart framework UI toolkit for crafting apps for mobile, web, and desktop. When I learned about this technology, I had a focus on it and wished to develop my career with this technology. From June 2021, I have applied for a job in some of the Software companies as an Intern Software Developer (Flutter). Because I have chosen Internship for my Final Year Thesis/ Project/ Internship. I have got an opportunity to join as Intern Software Engineer at Excel IT AI, and so I joined there as an Intern Software Developer from August-01, 2021. After completing 4 months internship on November 30, 2021 successfully, I have got the opportunity to be a permanent jobholder from December 01, 2021 as per my performance in Excel IT AI. Now I am working there as a Junior Software Engineer in the Mobile Application Development Team. 1.4 Scope of the study This report is based on my Internship in mobile apps development at Excel IT AI. Along with this, the report will also partially describe all the workflow during my Internship period. This report is mainly important for software development-related organizations to understand the system or software application development system that includes mobile(android & iOS), web & desktop(Linux, mac & windows) application development technologies. System or software application development with flutter is a technology of multipurpose uses. Flutter, a framework of Dart language that is developed by Google, is a cross-platform mobile application development tool. It can develop applications for Android, IOS, Web, Mac, Linux & Windows by writing a single codebase. But in my office, we use these tools to develop only android & iOS applications. Another scope of the study is Mobile application(android & iOS) development process in the office environment. Technology for mobile app development is always growing at a breakneck speed. Mobile applications and the newest app developments are now benefiting both businesses and consumers. More than trends and technology are involved in a successful and good application development technology. 1.5 The main objective of this report The primary objectives of this report are to meet the criteria of the BSc program and to exhibit the knowledge and information gained during my internship with the company. The other important goals are as follows –

- Learned about the development services work environment in office
- Got working experience before the job that helped me to be professional and get a permanent job.
- The experience that I have gained from the office, would improve my future professional career.
- Opportunity to work & learn with teamwork,
- To strengthen the Time management skills
- Their cross-platform mobile app development field is my area of interest.
- Got the facility to learn & work.
- All the colleagues, employees, and staff are cooperative.

1.6 Summary of the report

- The first chapter of this report discusses Mobile Application Development with flutter, the background of this report, and the scope of the study. This chapter also discusses the main objective of this report. What is actually done in this report and project that is overall discussed in chapter one.
- The second Chapter discusses the overview of Excel IT AI. Discuss their employee description and all department responsibilities. This chapter also discusses their services and how they give their services and manage their client, company location, and other information about the company.
- Chapter three shows the existing projects of Excel IT AI. This chapter also discusses the working procedures of existing projects. Also, discuss the current equipment that they are using for giving their products & services.
- In chapter four discuss the proposed projects that I have worked on during the internship period. It also discussed which protocol suggested a proposed network with its benefits. At last, discuss the benefits and features of the proposed network and the difference between the existing network and the proposed network.
- Chapter five discusses Performance, results, and discussion about this project.
- Chapter six discusses the development conclusion and bibliography.

Chapter 2 Organization Overview 2.1 Company Profile At Excel IT AI, we develop innovative and creative products and services that provide total communication and information solutions. Among a plethora of services, web design and development, mobile application design and development of tailor-made applications, ERPs, CRMs, e-commerce solutions, business-to-business applications, business-to-client

applications, managed hosting and internet portal management are the few that we offer. Satisfied clients around the globe bear testimony to the quality of our work. As a leader in technology exploring, Excel IT AI is committed to exporting quality software worldwide. The general purpose of Excel IT AI is to develop and promote advanced information technologies for multi-user operations. Excel IT AI business philosophy is to assure the highest quality product, total client satisfaction, timely delivery of solutions, and the best quality-price ratio found in the industry. Our emphasis is on offering a high degree of product user-friendliness through a positive, creative and focused company staff. With our vast array of software development, product development, we believe the creation of a robust, user-friendly, and functionally rich software solution is a risk-free proposition for Excel IT AI and Client. We are confident that we will be able to create an exceptional system that will meet and exceed the Client's expectations and vision for the proposed web application.

2.2 Excel IT AI Department Hierarchy Excel IT AI has several departments according to the assignment. The department's development are services drawote- I. Developer Team: This team works in project development related work. There are some sub-team of developer team thats are -

- Mobile Team: They develop all the mobile applications for the company & clients.
- Web Team: They develop all the web applications for the company & clients.
- UI/UX Design Team: They provide the designs of software applications to the mobile & web team.
- SQA Team: SQA(Software Quality Assurance) team works in software testing.

II. Service & Customer Department: A customer service representative communicates with a company's customers in order to provide them with information and answer questions about products and services. They also deal with consumer issues and assist in their resolution. Customer support agents usually get their information by making a phone call. III. Accounts Department: Accounting departments give accounting and financial assistance to the organizations to which they belong. They keep track of accounts payable and receivable, inventories, payroll, fixed assets, and other financial factors. The department's accountants go over each department's records to evaluate the company's financial situation and any modifications that are needed to manage the organization efficiently.

IV. Marketing Department: The Marketing Department is responsible for promoting an organization's business and mission. The department is in charge of raising revenue, expanding market share, and contributing to the company's overall growth and profitability. In a small corporation, the marketing department may consist of just one person, or it may comprise a marketing director or manager, as well as marketing executives in charge of activities including advertising, publications, and events.

V. Network & IT Support Team: They worked in the Network & Customer monitoring section and experienced lots of things about network maintenance and customer support. VI. HR Department: An HR department provides services to all employees and issues various letters, such as appointment letters. They keep track of all of the employees' needs, raise their salaries, and provide bonuses. This department distributes the job announcement, reviews the applicant's CV, and issues the appointment letter.

2.3. Services of Excel IT AI Excel IT AI likes to provide solutions to difficult problems and create high-performance software. Their services are Web Application & Mobile Application Development, UI/UX design, Custom Software Development & Digital Marketing. They offer a wide range of consulting, development & quality services with 100% satisfaction. Mobile Application Development: Our mobile application development solutions include various domains and topics. This service is about creating mobile applications for end-user smartphones, tablets, and other devices. In general, you can get full-cycle software development with all the necessary stages: business analysis, architecture planning, UI/UX design and prototyping, development, testing and QA, release with deployment or publication, and further tech support. If you need unique mobile application development, we're ready to handle it. You can get solutions for iOS, Android, and more exotic mobile operating systems like Chrome OS, Tizen, or Ubuntu Touch. Apart from native solutions (developed for the specific platform), we provide hybrid and cross-platform mobile applications that work seamlessly on different devices. Don't hesitate to contact us if you need to consult or order custom mobile development services. More precisely, the services provided by our mobile app company include: Smartphones appeared and changed our life completely. Now, the tiniest phone is more powerful than the computers of the past. No surprise that mobile app development covers all our needs nowadays, from communication to work and leisure. That's why businesses focus on mobile app development heavily, creating various solutions for individuals and other companies. If you want to get a brand-new mobile application, improve or redesign any existing tool, test demand with the MVP, or just consult about mobile app development services, you're in the right place. We research, design, build, deploy, test, and support native, hybrid, and cross-platform mobile apps for Android and iOS. Our mobile app development company is focusing on effective solutions that meet the goals of our clients. You can reach us to get the first free consultation at any time. Web Application Development: Talking about custom web application development, we mean a

whole range of distinct services. They include enterprise and customer research, design wireframing and prototyping, architecture planning, frontend and backend coding, optimization, maintenance, DevOps, and so on. Web app development helps people learn more about your company, check the services and products, contact your team, interact with various solutions: catalogs, order forms, videos, etc. If you need a new tool, want to improve an existing app, or require thorough research, we're ready to help with all these web application development services. We provide custom web app development, cross-platform development, design, web consulting, legacy modernization, system integration, and lifelong support. You can quickly get the solution you need, from simple websites to advanced dynamic web apps with the tailored client- and server-side modules. Don't hesitate to ask us about our web application development company if you have any questions or ideas to discuss.

UI/UX Design: UI/UX design services include two critical aspects: user interface and user experience. The user interface or UI is all about the visual look of your application or website. All your customers interact with the same interface that acts as a bridge between people and your services. Users interact with the software through interfaces, so it's essential to make everything beautiful, clean, simple, and understandable. Our UI/UX design studio knows how to create cool interfaces. User experience is a more comprehensive term that includes UI. It focuses on general interactions, ways in which customers access your solutions, move through them. Robust UX design helps you to guide users, ensuring that they can find what they need quickly and smoothly. UX things are unique for each user. Hence, you want to keep the experience responsive and personalized. Overall, our UI/UX design company often combines these two parts as they're highly interconnected. You can get various tasks completed by our team of professional designers in this area.

Custom Software Development: Custom software outsourcing is all about unique products and services. You can get virtually whatever you need, from AI satellite data analysis software to regular online shops. Through custom software outsourcing experience, you get a significant market advantage. The thing is that your bespoke software will be unique and unavailable to competitors, unlike ready-made packages by product vendors that sell their solutions to different teams.

Digital Marketing: Our element advanced specialists execute powerful web advertising arrangements in view of your business targets. With 100% modified strategies and centered site advancement methodology, we expand client engagement. Our group of digital marketing experts gives customer accomplishment on each venture doled out from technique and configuration to web showcasing and versatile improvement. We will offer you some assistance with exceeding your desires.

2.4 The Vision We are the leader in providing the best system or software like web & mobile applications at low cost. We ensure that our customers are successful by understanding and being responsive to their needs, as well as working collaboratively with them to provide one-stop faster, cost-competitive and scalable services that create competitive advantages in the world of digital communication. Excel IT AI aims to make a high-class Customer Care Department respond within a MINUTE against any complaint & it will close the day with Zero complaints. The company will reach their customer beyond their expectations & they will proactively find out any issue regarding Service for extra care.

2.5 The Mission Since our establishment in 2021, we have realized the importance of time values, culture, design and development. We are not just a team of high-tech professionals. We are wealthy problem solvers and strong entrepreneurs. We are a team of over 30 relentlessly curious project managers, business analysts, software engineers who love their work as much as you do. We make the most of our potential by providing strong project leadership, the latest technological best practices and clear advice for each project we undertake. We like to solve difficult problems and create easy-to-use high-performance software. We design, we create, we support, we ask the right questions. We believe in efficient communication and thoughtful project management throughout the entire work process. Every day, we build lasting relationships with our clients around the world without losing the drive to strive for excellence and innovation.

2.6 Values We believe that how we do business is the key to our success. Our commitment is exemplified by the Excel IT AI way, a key value statement that highlights the importance of customer and market focus, high performance, honesty and respect, spirit, cooperation, and people development. Our employees are the key to upholding these values and we are committed to providing a work environment for our employees that encourages the Excel IT AI approach. We are extremely proud of our employees, who take seriously their responsibility to embody these values in their relationships with each other and with our customers, suppliers, and the community. We are very proud of our commitment to the communities where our workers live and work. We believe that being part of the community involves the responsibility to contribute more than just the job.

2.7 Specialities of Excel IT AI Strong business relationships, we think, are built on trust and reliability. We work closely with your team to design and build the ideal platform and we are dedicated to providing fair and transparent pricing throughout the development process. We provide you with all the information you need to make an

informed business choice. Our staff has extensive knowledge and experience with a wide variety of System and Software technology stacks. Whatever the specific needs of your company, we can help you to find a solution. Chapter 3 Activities 3.0 Activities Excel IT AI views interns as valuable members of the team as well as workers. Interns get the opportunity to learn about the company's genuine business and professional environment. Through its unique culture, Excel IT AI provides a learning environment for interns. With the company's mobile application development team, I worked as an intern software engineer.

3.1 Work Load The quantity of work that an individual has to accomplish is referred to as their workload. The actual quantity of labor and the individual's impression of the workload are two different things. Workload can be characterized as either quantitative (the quantity of work to be done) or qualitative (the type of work to be done) (the difficulty of the work). As an intern on the mobile application development team, my first and greatest task was to learn the organization's work process. A team conversation was set up to assist me grasp all of the terms and conditions of the organization, and necessary material was supplied to acquire an overview of their structure. After successfully completing the tasks, they included me with their main developing team.

3.2 My Main Roles in Excel IT AI My main role was learning and developing their mobile applications. Firstly they gave me some small tasks for practice and to justify my developing skills. In my internship period I have contributed to several interesting mobile apps development that improved my skills and explored my curiosity in flutter mobile apps development. I have designed, developed, tested and deployed several apps. There I had to focus on the quality and structure of the app functionalities. I should always think creatively about how to design well, make more user friendly and how to get best performance from the apps. I also contributed to the firebase database for apps user authentication and users data storing. I had full access to data in the firebase firestore for maintenance of the database server, so I have to update, delete, change or modify the data in firebase firestore if needed.

3.3 My some other Responsibilities In developing our mobile applications, my some other responsibilities are given below: • Execute full software development life cycle (SDLC) • Develop flowcharts, layouts and documentation to identify requirements and solutions • Write well-designed, testable code • Integrate software components into a fully functional software system • Document and maintain software functionality • Troubleshoot, debug and upgrade existing projects • Deploy programs and evaluate user feedback • Comply with project plans and industry standards • Ensure software is updated with latest features

3.4 Tools & Technologies In developing our mobile applications, we are using many tools and technologies. Some of these describing below: • IDE: Android Studio/VS code for write & editing code • Flutter SDK & Java JDK. • Language: Dart & Flutter for developing front-end • Database: Firebase, Fire-store, MY SQL, SQLite • SDLC: Following Agile model to development • Rest API from third-parties • JIRA for testing software • Postman for testing API • GitHub for version controlling

3.5 Other Relevant Activities Although I was assigned to the mobile application development team, I was able to share and discuss any issues with everyone on the team. So I learned about the functionality, working methods and systems used by these teams. I enjoyed this opportunity to be able to learn how each team works; Admittedly, I was amazed at how important each team's operation was. We were all so friendly and helpful colleagues. So the office environment never felt monotonous.

Chapter 4 Existing Projects That I have worked in Excel IT AI

4.0 Existing Projects In this following chapter I will discuss the projects that I have included with. In some projects I have worked individually like BMI Calculator, Weather App, Google Map Integration, Chat Room, I-School for my skills testing period in office. After successful completion of these tasks they have included me in their team to develop their main projects that are Meal Monkey, Ei Khali. Some of the project overviews are given below-

4.1 Weather (Weather Report App) Weather is a weather application that is fully developed by me. By using this app you can know about the weather updates of your current location and your search location. In this application I have used the meta weather api to get data from the backend server, used images and icons from the internet & flutter framework of dart programming language for the frontend UI design. The source code link is: <https://github.com/imam-swe/Weather-App> Figure: Weather App

4.2 ChatRoom (Group Chatting App) ChatRoom is a social communication application. By using this app you can communicate with others in a chatroom who use this app like mig33, the first arab social & communication app. It is also fully developed by me. In this application I have used firebase for user authentication & firestore for data storage as backend, used images and icons from the internet & flutter framework of dart programming language for the frontend UI design. The source code link is: <https://github.com/imam-swe/Chat-App-Demo> Figure: ChatRoom App

4.3 I-School (School Management System) I-School is an application of an online school management system. By using this app- teachers can update class routines & notices, publish student results, communicate with students and other teachers. take exams & class online . Students can see their notice, exam & class schedule, attend online classes, communicate with teachers and students. All students & teachers

should register first and set up their profile on this app. It is also fully developed by me. In this application I have used firebase for user authentication & firestore for data storage as backend, used images and icons from the internet & flutter framework of dart programming language for the frontend UI design. The source code link is: <https://github.com/imam-swe/Student-Management-Figure-I-School-App>

Figure: I-School App 4.4 Meal Monkey (Food Delivery App) Meal Monkey is a food delivery app like foodpanda. This is a developing project of this company. A team of 2 people (Me and my other team member) is developing this project. The overview of this project is given below. Figure: Ei Khali 4.5 Ei Khali (Ride Sharing App) Ei Khali is a ride sharing app like pathao. This is a developing project of this company. A team of 4 people (Me and my other team member) is developing this project. The overview of this project is given below. In this application I have used firebase for user authentication & firestore for data storage as backend, used images and icons from the internet & flutter framework of dart programming language for the frontend UI design. Figure: Ei Khali

Chapter 5 Constraints/Challenges 5.0 [Constraints/Challenges I couldn't have asked for a better internship. Working](#) at Excel IT AI has given me a better understanding of the actual world of work and how a multinational corporation operates. Without a doubt this is one of the most fascinating and memorable events of my life. During the internship program, however, various concerns and problems were observed and identified. 5.1 Identified/Observed in the organization The study's biggest constraint was data collecting, as the majority of the material was classified and secret. In order to safeguard corporate confidentiality, Excel IT AI may not share all information linked to the reports. As a result, gathering the key facts for this study is challenging for me. Furthermore, several department personnel were not properly knowledgeable about the entire charge and billing procedure, making data collecting more challenging. The report's development was further hampered by time restrictions. 5.2 Academic Preparation Theoretical expertise from academia was clearly beneficial in comprehending the basic development process. However, the assignment I was given necessitated some advanced understanding of mobile app development as well as acclimating to the office environment.. 5.3 [Personal/Professional Skills • Technical Skills: First, the internship program enabled me to gain some advanced knowledge](#) about mobile apps development. Working in an organization has helped to understand the office environment. By working with companies, I have gained practical experience exploring my skills at the corporate level. [The internship program](#) has [helped me](#) improve [my technical skills through](#) intensive [use of](#) new technology. [I](#) had the opportunity to learn how to develop and maintain real life projects that I did not learn before joining the internship. • Analytical Skills: My analytical abilities have been enhanced thanks to an internship at Excel IT AI. Analytical abilities include the capacity to solve issues in a scenario analysis as well as the ability to employ excellent reasoning. Working on numerous Oracle problems and watching operational performance has strengthened my analytical skills, I feel. • Interpersonal Skills: During my internship, I improved my communication skills, time management, and collaboration. Interactions with my superiors and other senior personnel improved my interpersonal abilities. During my internship, I learnt how to communicate with supervisors and senior managers. 5.4 Acquired Knowledge I was absolutely unfamiliar with the surroundings when I started my internship at Excel IT AI. I, on the other hand, was always ready to learn new things. As a fresher, I've had to deal with the difficulty of doing multiple projects. But, day by day, I became accustomed to it and gained confidence. As a result, I found it tough and challenging to adjust to this new daily schedule. Despite the fact that learning new things is always difficult and difficult, I believe I have been able to meet these hurdles. 5.5 Consequences to Organization As an intern, my goal was to write standard code, explore my skills and give them a good output. Occasionally I try to give advice on existing projects and how to improve them. 5.6 [Implications to University's Internship Program I would like to express my gratitude to the Faculty of Science and Information Technology](#) for keeping the [internship credit in the](#) undergraduate program [curriculum](#) and for giving me the opportunity to enjoy art-based work and the [field of work with interest. I am also grateful to the Faculty of Science and Information Technology](#) and the [Placement and Alumni Office, DIU](#) for arranging the [opportunity](#) to choose [an](#) institution of their [own](#) interest [and complete](#) an [internship there](#). 5.7 Effects on [Personal/Professional Skills](#) The first taste of my professional life came in the form of an internship, which helped me develop my personal talents. I developed a positive outlook, a strong sense of duty, and the ability to be imaginative, resourceful, open, and open to change. It has awakened in me a lifelong desire to learn. I will never miss the opportunity to thank my teammates for this. They are all incredibly helpful and collaborative. They offered me plenty of time to learn about the whole IT system process. They were always willing to help me whenever I had a problem with any work anxiety. I was new to the company, and I learned many aspects of professionalism from my colleagues. Chapter 6 Concluding Statements 6.1 Summary Excel IT AI is one of the best software companies. They provide software and system integration services. [They ensure that our](#) customers succeed [by](#)

understanding and responding to their needs, as well as working with them to provide fast, reasonable cost and measurable service that creates competitive advantage in the world of electronic communication. I worked with Excel IT AI's mobile apps development team. There was a lot of research and analysis discussed earlier where the development of the company could take place. By doing this study I have gained practical knowledge of the process of mobile apps development in a corporate company. In addition to knowing corporate culture, this report has helped me gain a broader perspective on my future endeavors. As a final point I would say that the recruitment process of Excel IT AI is more contemporary and harmonious than other companies in the industry. 6.2 Recommendations for Future Strategic Actions The internship provides students with a term of hands-on experience in a subject linked to their studies. This experience allows students to see how their studies are implemented in the real world, which is a wonderful learning experience. 6.2.1 Organization Before moving on to Excel IT AI, I didn't know what it meant to be lucky. However, I am now well aware of it. At Excel IT AI, I have received so much overwhelming support from my colleagues that I will never forget. Still, not everyone is as lucky as I am. So I strongly advise you to adapt to the office environment and culture. The office should have some arrangements for leisure time that prepare an employee to always work hard. Otherwise life would be monotonous and unwelcome. So everyone should take some time out from their work to stay fresh. 6.2.2 University Potential workers can use an internship to get experience in a certain profession or business, assess if they are interested in a particular job, create a network of connections, or earn university module credit. I am pleased to be a DIU student because the internship course is part of the DIU curriculum. I'd like to express my gratitude to the Institute of Information Technology for providing me with the chance to prepare for a competitive work environment. It significantly improved my coding abilities. Now I'm excited to take on the world's forthcoming difficulties. 6.2.3 Professional Internships are also beneficial to interns since they allow you to learn firsthand what it's like to work for a certain firm or in a particular field. Interns experience a number of typical difficulties, including time management. Whatever the issue, it's critical to get the most out of the internship. 6.2.4 Reference 1. <https://docs.google.com/document/d/1X2VA4uSvINc2zYX27Qjz4L6fF1fUr9OfSGI56AZerFE/edit?pli=1#> September 05, 2019 2. <https://medium.com/flutter-community/flutter-weather-app-using-provider-c168d59af837> August 06, 2021 3. <https://api.flutter.dev/flutter/foundation/foundation-library.html> September 23, 2021 4. <https://pub.dev/publishers/flutter.dev/packages> October 19, 2021 5. <https://dart.dev/guides/language/effective-dart/documentation> November 17, 2021 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39