

USER REVIEW AND RECOMMENDATION SYSTEM

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Degree of Bachelor of Science in Computer Science and Engineering

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MAY 3

APPROVAL

This Project titled “**User review and recommendation system of top restaurant, shopping services and more**” submitted by Md. Ashiqur Rahman, ID No: 151-15-5470 Arif Mahmud ID No: 151-15-5406. Bayjid Hossain ID No: 151-15-4767 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 03rd May, 2019.

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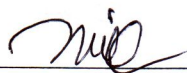
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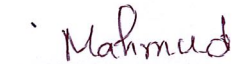
We thus announce that, this project has been done by us under the supervision of **Mr. Shah Md Tanvir Siddique**, Senior Lecturer, Department of CSE Daffodil International University. We likewise proclaim that neither this undertaking nor any piece of this venture has been submitted somewhere else for honor of any degree or confirmation.

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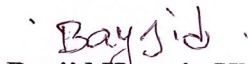


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ABSTRACT

This project has been created by thinking on the consumers of local businesses of Dhaka. To make a trustworthy platform for them where they can give their honest reviews. To help people those who are about to consume services from a local business by giving some honest reviews about that local business in front of them. The application has three main models - User, Reviews and local business. Consumers can give reviews with star marks and text. We prevent unauthorized people from giving reviews. User must be authenticated in order to give any sort of review. Though unauthenticated users can see the stores and reviews. We hope this application can help our nation by giving honest reviews about local businesses of Dhaka.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

This report will express about the highlights and procedure to build up the application that we thought and worked well ordered to reach in a last accomplishment. This announcement especially holds in subtleties for the targets, structure display, scope, essential prerequisites and by end announcing and watching techniques which has been taken.

Online review about local businesses is a good day to categorize popular local businesses of a city. Before consume a service, consumers want to become aware of that business. For example, a person wants to go to a restaurant for dinner. But he has no idea about that restaurant. It will be better if that person know about that restaurant and see other consumers review. Our 'Review and Recommendation System' fulfill this requirement. Here a consumer can easily give review about his consumed service, so that other consumers and owners of that business can also become aware of their mistakes.

1.2 Motivation

Nowadays, there are lots of local businesses in Dhaka, Bangladesh. Consumers of these Local businesses need a trustworthy platform where they can give and find honest reviews about those local businesses. Social media like Facebook, Instagram is very popular among the people of Bangladesh. People give reviews about local businesses (restaurants, internet service providers etc.) on those social Medias. But unfortunately those reviews are not trustworthy. We see in the media that some dishonest people make business through that reviews. Some Facebook group owners asking for money from the business owners. If the owners are not willing to give them money then Facebook group owners post fake reviews about that local business and that would make a bad impression about that local business towards the customers.

Above criteria's motivated us to build a platform where people can give honest reviews about local businesses in Dhaka, So that, both consumers and the owners of local businesses will be benefited.

1.3 Objectives

It is an interesting fact that all over the world 90% customers of local businesses read online reviews before they consume that service. Among them 88% consumers trust those online reviews. So, we can see, online reviews have significant impact towards the customers of local business. In our application a visitor must have to register in our system in order to give a review. So that random people are not able to give any reviews. We do that for security purpose. Consumers of local businesses can search their favorite restaurant from our homepage. They can also visit local businesses based on tags. Suppose, if anyone clicks on 'Family Friendly' button, he/she will redirected to a page where he/she will see all the local businesses which are categorized under that 'Family Friendly' Tag. The application has three principle models — Users, Stores, and Reviews — which are all related to each other. It is intended to an endless supply of the present application needs, for example, client confirmation, database stockpiling, Ajax REST API. This application has also the feature of geocoding data with google maps. So that, when a user visit our 'Map' button he/she can saw the nearest local businesses on the map based on his/her location.

1.4 Expected Outcome

This application can be accessed from anywhere of the world. Only one thing is needed here and it is an internet connection

As we know many people around the world heavily dependent on online reviews, so by using our platform we can assure that they will get expected service.

Local business owners will be also benefited by using our platform as they also wanted to know how their consumers feel after consume their service.

Our application uses latest technologies called single page application (SPA).

In single page application, the application works in the browser and doesn't need any page reload. So when a user goes from one page to another page of the application, under the hood, no page reload will be happened.

As it is a single page application (SPA) users will get very smooth experience while visiting this web application.

1.5 Report Layout

The examination of the idea of standards, hypothesizes and strategies enlisted by jurisdiction.

The vital investigation of idea have been placed in inside the order.

In a composed record methodology to the organization of the framework which holds procedures, clarification, definition capability which is utilized to store, gather, look into, dissect and control data as part of inquiring about of the particular field.

CHAPTER 2

BACKGROUND

2.1 Introduction

Modern technologies has been improved day by day. This is the era of modern technology. One of the wonder of modern technology is social media. Nowadays, people are heavily dependent on social media. Social Medias also became popular in Bangladesh last couple of years. It would be nice if there is a social media where consumers of the local businesses can give their feedback through a social media which is specific to review and recommendation of local businesses. As people are heavily rely upon online reviews. So we came up with the idea of building a social media which is specific to reviews of local businesses.

Our review and recommendation system will provide a platform for consumers of local businesses to give honest reviews and check others review to take as recommendation without any fear.

2.2 Related Works

Although there are not any popular social media which is specifically made for Bangladeshi local businesses, there are some social Medias like ‘Yelp’, which is based on the San Francisco. Third website is very popular and trustworthy among the users. In Bangladesh there are some websites like ‘foodiez’, ‘harriken’. But those are only specific to only restaurants review.

Our application tried to connected that dots and build a media where people can give review not only about restaurants but also internet service providers, delivery systems, ecommerce’s and many more.

2.3 Comparative Studies

Dhaka is the capital of Bangladesh. Lots of local businesses like restaurants, internet service providers are increasing here day by day. But there are not a single place in online where people can give reviews about local businesses like internet service providers of Dhaka. Our application will meet those criteria’s.

If we explore the website called '<http://harriken.com/>', we see that they are only give priority on the restaurants of Dhaka. But that is not enough, because there are lots of other local businesses available in Dhaka, and people of Dhaka badly needs review of these. For example, someone moved to a new place in Dhaka, He/she needs to take service from internet service provider. But he/she has no idea which internet service provider will give best service one gives best service on his/her area.

So It would be nice If there is a web application where he/she could visit and saw others review about internet service providers of his/her area and then choose the best internet service provider. Our application will try to solve this issue.

2.4 Scope of the Problem

Nowadays, people need online reviews about their consumed or about to consume local services. Most of the people took social media like Facebook, Instagram etc. to give their reviews. But some dishonest people take this advantage and make illegal business through this by kidnapping business owners.

Business owners are constrained to give money to those dishonest persons otherwise those persons will give fake reviews about that local businesses and after that those business owners will lost their customers. This is a serious issue in the era of market economy. By realizing that situation, we try to build this application where people can give honest and fruitful reviews which will help both consumers and business owners.

2.5 Challenges

Every web application developer faced challenges while building an application. We are not different from them. First of all we tried to build this application as a single page application (SPA). Traditional applications are built with multiple page. But we used new technology. As it is a new technology it is not easy to grasp those concept and build them with a short period of time. In single page application no page reload will happen, so user will get a mobile application like smooth experience. Some very popular websites like Facebook, Instagram uses the concept of single page application.

Another challenge is marketing this application. In modern era marketing is very important part of a web application. Users are highly addicted in Facebook, Instagram and other Social Medias.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

Business process displaying is the graphical portrayal of an organization's business forms or work processes, as a methods for distinguishing potential enhancements. This is normally done through distinctive charting techniques, for example, the flowchart, information stream outline, and so on. Business process demonstrating is normally utilized conversely with business process mapping. Procedure displaying programming gives an investigative portrayal of 'as-is' procedures in an association and differences it with 'to-be' forms for making them progressively productive.

There are numerous advantages to business process displaying:

- Gives everybody a reasonable comprehension of how the procedure functions
- Provides consistency and controls the procedure
- Recognizes and takes out redundancies and wasteful aspects
- Sets a reasonable beginning and consummation of the procedure

3.2 Requirement Collection and Analysis

The essential advance of programming plan and improvement is necessity accumulation and examination which is overseen and composed well ordered. Here we are examining our application that we have officially created to determine the articles we have required to create it.

There are two sorts of prerequisite,

useful necessity

Nonfunctional prerequisite. The application

Performs exercises straightforwardly is called useful prerequisite. Despite what might be expected, non-utilitarian prerequisite is the idea of a site, as like the application is what amount adjust in execution issue of the application, etc.

3.3 Use Case Modeling and Description

A utilization case graph is a dynamic or conduct outline in UML. Use case charts display the usefulness of a framework utilizing performing artists and use cases. Use cases are a lot of activities, administrations, and capacities that the framework needs to perform.

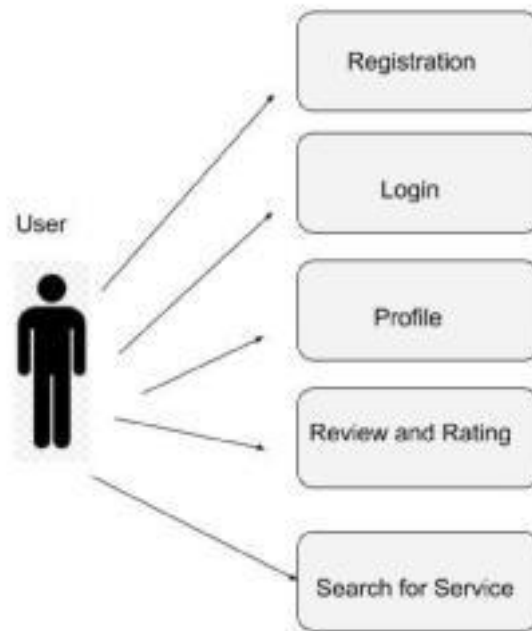


Figure 3.1: Use case Diagram

3.4 Logical Data Model

A logical data model describes the data in as much detail as possible, without regard to how they will be physical implemented in the database. Features of a logical data model include:

- Includes all entities and relationships among them.

- All attributes for each entity are specified.

The primary key for each entity is specified.

- Foreign keys (keys identifying the relationship between different entities) are specified.

3.5 Design Requirement

Plan prerequisites are the express objectives that a venture must accomplish so as to be effective. In proposal and achievability reports, particularly, the plan and choice criteria decide the report's last proposal for activity. Chiefs utilize these criteria as their fundamental apparatus in assessing a task's potential for progress and how well it fits into the objectives of the association. Specialists need unequivocal plan and choice criteria so as to assess prescribed structures of gadgets and test strategies.

Structure prerequisites can be partitioned into essential and optional necessity. Essential prerequisites are those that establish an effective undertaking; the venture will be fruitless on the off chance that it does not meet these objectives. Optional necessities are those highlights that are exceptionally attractive be that as it may, not significant. Isolating essential and auxiliary prerequisites builds up a reasonable pecking order in structure decisions. Frequently, actualizing one basis makes the usage of another infeasible or expensive, or an auxiliary paradigm might be relinquished for an essential foundation.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

Frontend is the visible part of a web application. In other word, frontend is something which user can see and interact with it. In early days frontend means only some style sheets. But in modern era frontend of a web application is much more complicated. Especially in single page application there are lots of modern library like react, angular and vue js is used. Nowadays, JavaScript one of most important part of a web application. JavaScript introduced the interaction of a web application from the front end. So that web application become much faster than before. There are many alternative technologies are available in backend but in frontend there are simply no alternative of JavaScript.

HTML

HTML is the indispensable part of any static or dynamic web application. Without HTML modern browsers will not be able to show something on the web page. For example, If anyone make the backend of a website using node js. In order to show the content to the user he needs to use templating engine. Nowadays, there are lots of templating engine like pug,ejs,handlebars are available where developer can inject programming logic. but that templating engine must have to be parsed into html before displaying it to the user.

CSS

CSS stands for Cascading Style Sheet. Suppose there is a header in a website. Its default color is black. Now the developer of that website needs to make that header green so that it will look better. But without CSS he can't do that. All he needed is to write a simple CSS rule. With the help of CSS an ugly website can become very charming and beautiful. CSS is used to improve the look and feel of a website. One more important fact is with the help of CSS one make their website responsive. That means the positioning of the content of the website will change based on device resolution.

JavaScript

JavaScript is one of the most popular programming language in the world. Nowadays, JavaScript can be used both client and server side. So, if anyone can learn JavaScript he can write code for both frontend and backend. It opens a new door for lots of developers. We already know about Single Page Application (SPA) which is also a part of JavaScript. Framework like angular, vue and react is written based on JavaScript. Nowadays machine learning algorithm can also be implemented using JavaScript. So it is very important language for web application development in modern era.

ReactJS

React is a library of JavaScript. With the help of this library we can make single page application. With the help of reactjs we can build single page application which is very popular nowadays. Famous social network like Facebook use react js in their application.

4.2 Back-end Design

Almost all the heavy lifting of a website is done in backend. Normally data of the website is stored in database. There are two types of database. One is relational and other is non-relational. Some popular relational databases are oracle, MySQL. One of the popular and commonly used non-relational database is mongodb. In order to make query user, there is a thing called mongoose, which is a layer over mongodb. We used mongoose to query our database. In our application we are using mongodb to store our data. In backend there are some popular architecture is used. We used model view controller (MVC) architecture in our backend codebase. We can call Model as a schema of the database. Controller is the thing which acts like a middle man between view layer and database layer. User Interface of the web app is called as view layer of the application.

Duties and Work Processes of the Back-End:

By writing business logic we can query with the database to get information, create and update information from database

Server side authentication should be implemented in backend.

It is recommended not to store user's sensitive information directly in database.

First it should be hashed and then hashed password will be stored in our database.

when the API is ready , then anyone from client side can hit the API to fetch information and make the frontend of the application

In this manner, with the collaboration of frontend and backend, a full stack web application has been built.

4.3 Interaction Design and UX

These are:

Typography

Visual Representations

Physical Objects or Space

Time

Behavior

Typography

Typography is a very important part of modern UI and UX design. Nowadays, we see that popular websites put lot of emphasis on typography. It should be eye catching and it should follow the design principles. Better typography ensures more visitors of a web application

Visual Representations

Visuals in the advanced space incorporate whatever isn't a word, for example, typography, photography, symbols, outlines and any graphical components. Pictures are the primary method to catch a client's eye. Visual portrayals are, to be sure as amazing as words. Clients ought to most likely communicate with them flawlessly utilizing just their instinct.

Physical Objects

Making great visuals is fundamental, however in the event that you don't place them in the opportune spot, they won't have a similar effect. Jumbled website architecture will influence the connection contrarily, as it makes it harder for clients to collaborate with the diverse components of sites.

Time

Time measurement alludes to the possibility that media may change after some time, and that movement and sound can and do assume a urgent job in how a client explores and collaborates with an item.

Behavior

Connection configuration focuses on how clients perform activities on sites. The conduct measurement additionally takes a gander at passionate criticism from the clients and structures new suggestions from input to upgrade the client experience. In our task, the UI is more than easy to understand. The client can associate this in all respects fluidly.

4.4 Implementation Requirements

A usage in software engineering is the acknowledgment of a specialized distinguishing proof. Execution is made out of the calculation of the application and sent through a programming language. As of now, we have seen that internet browsers are executed such a way that can get to the World Wide Web through the web.

CHAPTER 5

IMPLEMENTATION AND

TESTING 5.1 Implementation of Database

The usage stage is the place we introduce the DBMS on the required equipment, improve the database to run best on that equipment and programming stage, and make the database and burden the information. Tune the setup factors as per the equipment, programming and use conditions. Create the database using mongoddb.

5.1.1 Database Design

NoSQL database works best for applications with massive amounts of data where most activity involves reading data from the database with some writing of data to the database. Reading is less intensive than writing because writing data to a database requires tracking when a database table is open. NoSQL databases tend to be on multiple machines and, in some cases, machines in multiple data centers. Keeping data in sync is comparatively easier and less complex with NoSQL databases. Even in cases where large data sets are not involved, some developers prefer the easier interactions between their code and a NoSQL database.

5.1.2 Database Management System

A database the executive's framework (DBMS) is a product bundle intended to characterize, control, recover and oversee information in a database. A DBMS for the most part controls the information itself, the information group, field names, record structure and document structure. It likewise characterizes standards to approve and control this information. A DBMS alleviates clients of confining projects for information upkeep.

Some other DBMS examples include:

MongoDB

MySQL

SQL Server

5.1.3 Mongoddb

MongoDB stores information in adaptable, JSON-like archives, which means fields can differ from report to record and information structure can be changed after some time. The record demonstrate maps to the articles in your application code, making information simple to work with. Impromptu questions, ordering, and ongoing accumulation give amazing approaches to get to and examine your information. MongoDB is a circulated database at its center, so high accessibility, flat scaling, and geographic dissemination are inherent and simple to utilize. Records in MongoDB are like lists in other database frameworks. MongoDB bolsters files on any field or sub-field of an archive in a gathering.

Here, we are building a file on the name field with sort request rising. Utilizing MongoDB's collection pipeline, you can channel and investigate information dependent on a given arrangement of criteria. In this precedent, we pull every one of the archives in the eateries accumulation that have a class of Bakery utilizing the \$match administrator and after that amass them by their star rating utilizing the \$group administrator. Utilizing the collector administrator, \$sum, we can perceive what number of bread shops in our gathering have each star rating.

NAME	DOCUMENTS	CAPPED?	SIZE
deliveries	1	false	24.44 KB
deliveryreviews	6	false	9.39 KB
ecommercereviews	1	false	8.22 KB
ecommerces	2	false	24.92 KB
ispreviews	4	false	8.92 KB
isps	5	false	28.88 KB
profiles	4	false	9.17 KB
reviews	45	false	20.28 KB
sessions	19	false	20.42 KB
stores	8	false	31.83 KB
users	13	false	22.27 KB

Figure 5.0: All Collection in Database

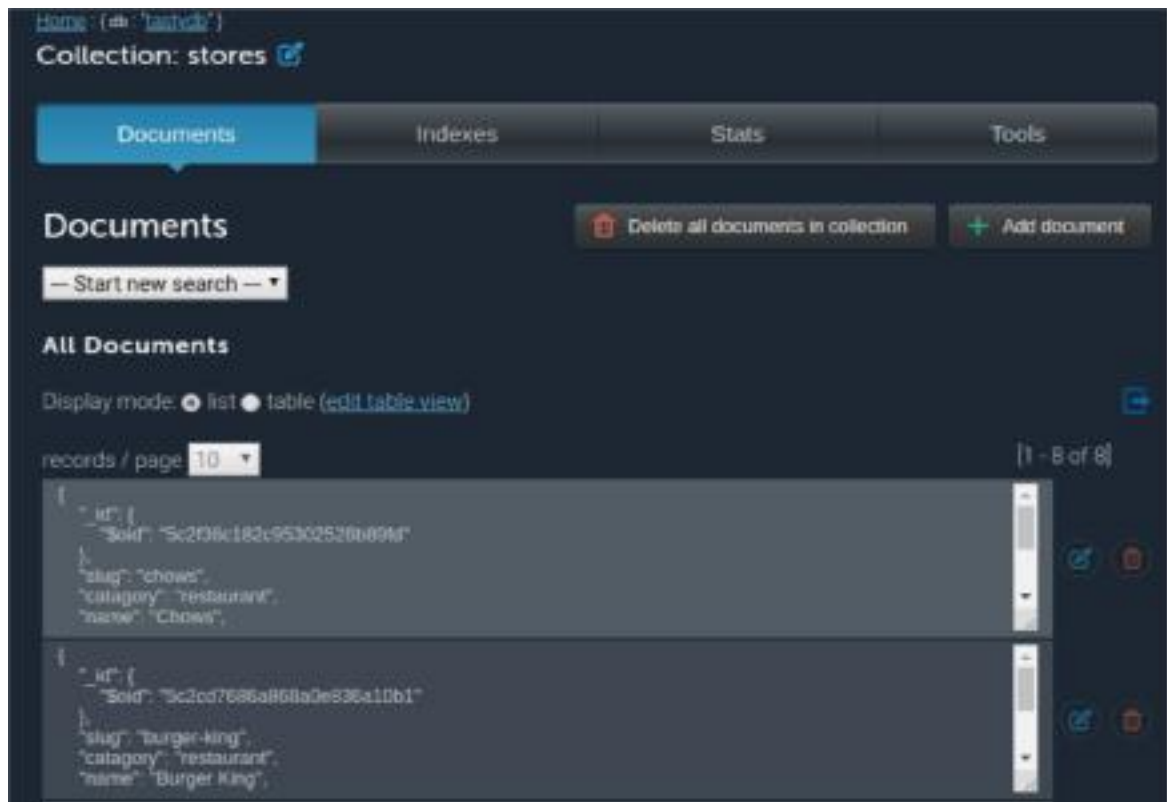


Figure 5.1: Collection of Restaurants

5.2 Implementation of Front-end Design

Respond is regularly depicted as "the V in the MVC structure". This additionally happens to be the least unmistakable clarification one could give a newcomer, as (V)iews are commonly rationale less records that are driven by a controller. Further, systems like Angular, Backbone, Ember, and all the more as of now have adequate view layers — which at that point makes one wonder, for what reason do we have to supplant the V in MVC with React?

The appropriate response is that React wouldn't really like to supplant our perspectives. it needs to increase them by enabling you to make exceedingly reusable UI segments (tab bars, remark takes care of, spring up modals, records, sortable tables, and so on).

As it were, the huge thought behind React is this: imagine a scenario in which you could make your very own HTML component that has tweaked usefulness. For instance, one could make a `<CommentBox>` component that would show a textarea, run approvals on the content composed into the textarea, presents the structure when the enter key is squeezed, and so forth all equitable by including one line of code: `<CommentBox></CommentBox>`. (For those of you originating from the Angular world, you can consider React Components as a nearby similarity to Directives).

5.3 Implementation of Interaction

In dynamic web application user can interact with database through server.

For example, in our application, when a user going to sign up in our application he/she have to give his email and password. Then when he will click on sign up button, then the information will be saved in the database. Another example is when a user gives a review under a store that review will store in the database. In this way interaction is happening in dynamic web applications.

5.4 Testing Implementation

At the point when a developer begin coding to create programming as like it is planned, at that point we consider it the usage of a framework. Furthermore, it very well may be say that the comprehension of a framework or indictment of a proposition, suggestion, structure, display, proclamation, arrangement, calculation where each undertaking is executed on the interest on necessity. Usage more alludes with the meaning of software engineering is to understanding calculation, programming rationale and other segments that are required to finish the application. For example, electronic application improvement needs learning on WWW (World Wide Web) and work area, versatile based applications need profound learning in these field and gadgets.

We have tested our application using four steps which are described below:

Unit test: Here, each modest part of a capacity is tried.

Module test: Every capacity, class and technique we have checked and tried of our application.

Functional test: we looked on the yield of each capacity and its usefulness.

User acknowledgment test: we picked a few general individuals to utilize our application for few days At that point get react from them about the liveliness of the application that its works appropriately. At long last we arrive in a choice our application finished.

It is a technique to check the exactness of the PC program. Just a legitimate testing makes a difference to build up an application without bug free precisely. It is important to direction a framework to create in a way which satisfy the necessity and evacuates illicit, awful clients input as well. Also, it improves the application quality and help of support. Testing begin from the start of usage the application and keeps running till the completing purpose of the application. All factors, capacities, classes and so forth are tried so that there will be no bug in future while the application will be utilized by the general population after its discharge.

5.4.1 Black box testing

Discovery testing is a method of programming testing that examines the usefulness of an application as opposed to squinting in its inward works. In this testing point of view permit the developer acquire the information conditions which will totally work all interest for a program. In Black box testing application is used over a full extent of information sources/yields for rightness. It for the most part experiences this sort of misrepresentation:

5.4.2 White box testing

Another name of white box testing is Glass box testing is an experiment configuration control. The development of the procedure configuration is to get experiments using White box testing techniques. A programming designer can extricate the experiments that affirmation that every individualistic way in the module have been prepared at any rate once. Software engineer needs to rehearse all sensible responsibility on their actual or false sides and indict all circles in the capacity to check their yields. Look at

internal side information structure and calculation to certain about the approval of the capacities.

5.4.3 Strategies of Software testing

Programming testing incorporates three sorts of strategies. These are:

Unit testing:

It respects the precision of each program of the application and satisfies the interest. Every unit of capacities, classes is tried with escalated care and this initial step certification to testing all functionalities as well.

Integration testing:

In this testing step each module is joined together and after that tried as a gathering and occur after unit testing yet before approval testing. It passes on an outcome with respect to its prerequisite.

Acceptance testing:

In the wake of passing the unit testing, incorporation testing then the time has come to acknowledgment testing. In this progression. It will be acknowledged whether all prerequisite is satisfied that is given by customer. On the off chance that it passes, at that point application is almost prepared to hand over.

Programming ought to be tried totally before discharging it in the market as there are no potential outcomes to happen any bugs or mistakes while general individuals direct with it. Utilizing a few wrong contributions to the information field to get yield or hamper the application ought to be tried. Presently, it is swing to test cases, where 10 experiments are study and review if the tried yield results are correct or off-base.

5.5 Test Results and Reports

Test outcome is a report that records information got from an assessment try in a sorted out way, depicts the ecological or working conditions, and demonstrates the examination of test results with test targets. Test Report is expected to reflect testing results formally, which offers a chance to gauge testing results rapidly. It is a report that records information acquired from an assessment try in a sorted out way, portrays the natural or working conditions, and demonstrates the correlation of test results with test destinations. Here we show complete execution test aftereffects of the task and screen captures of report. These screenshots are given below:



Figure 5.2: Home page

Functionality:

Main url show home page where show menu bar and user can search for store.

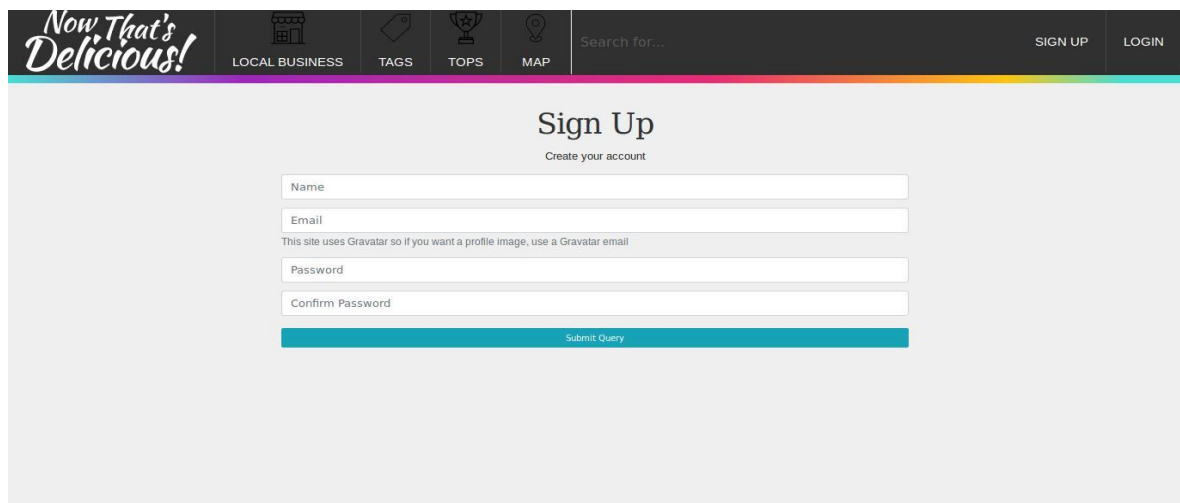
Operation Flow:

User can select specific type of business

User can search for Business page

User can browse business by tag

Registration



The screenshot shows the 'Now That's Delicious!' website header with navigation links: LOCAL BUSINESS, TAGS, TOPS, and MAP. A search bar is also present. The main content area is titled 'Sign Up' with the subtitle 'Create your account'. The form includes input fields for Name, Email, Password, and Confirm Password. A note states: 'This site uses Gravatar so if you want a profile image, use a Gravatar email'. A 'Submit Query' button is at the bottom of the form.

Figure 5.3: Registration Form

Functionality:

Access all work by registering this website.

Operation Flow:

Here all field are validate. Email is validated by set email type.

Password is hidden. Password and Confirm password should have matched. After registration go to Home page.

The image shows a web browser window with the 'Now That's Delicious!' website. The header is dark with a colorful gradient bar at the bottom. It contains the logo 'Now That's Delicious!' on the left, navigation links 'LOCAL BUSINESS', 'TAGS', 'TOPS', and 'MAP' in the center, a search bar on the right, and 'SIGN UP' and 'LOGIN' buttons on the far right. Below the header, the page title 'Log In' is centered. Underneath the title is a 'Sign in' link. The login form consists of two input fields: 'Email Address' and 'Password'. Below these fields is a blue 'Submit Query' button.

Figure 5.4: Login Form

Functionality:

User need an email and password for login.

Operation Flow:

User give an email that may have email type.

First matched email, if wrong, send an error message.

After checking email, password are matched.

If password wrong, send an error message.

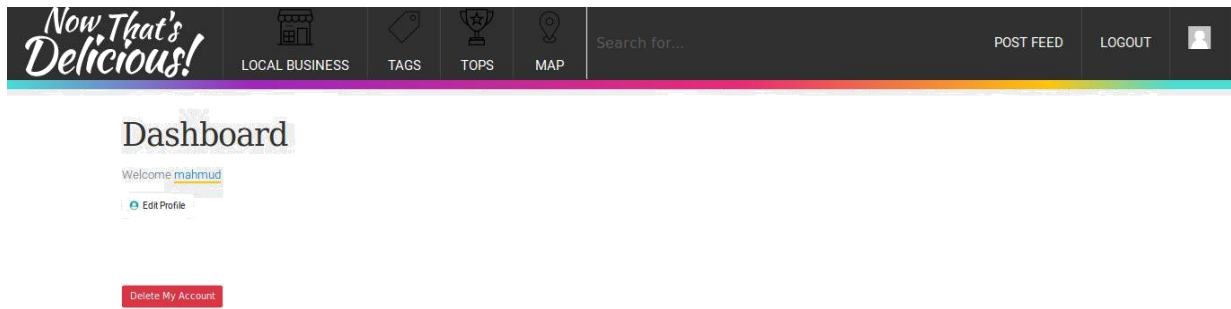


Figure 5.5: User Dashboard

Functionality:

Only a logged in user can access this page

Operation Flow:

dashboard for user of our application

user can see a profile picture based on globally recognized avatar

They can also remove their account from the dashboard if they want

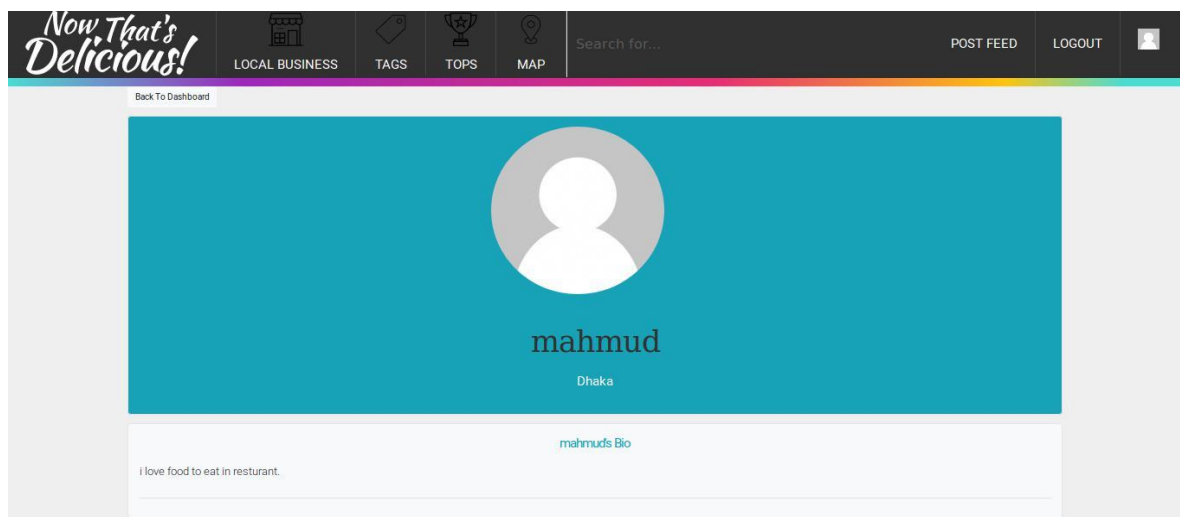


Figure 5.6: User profile page

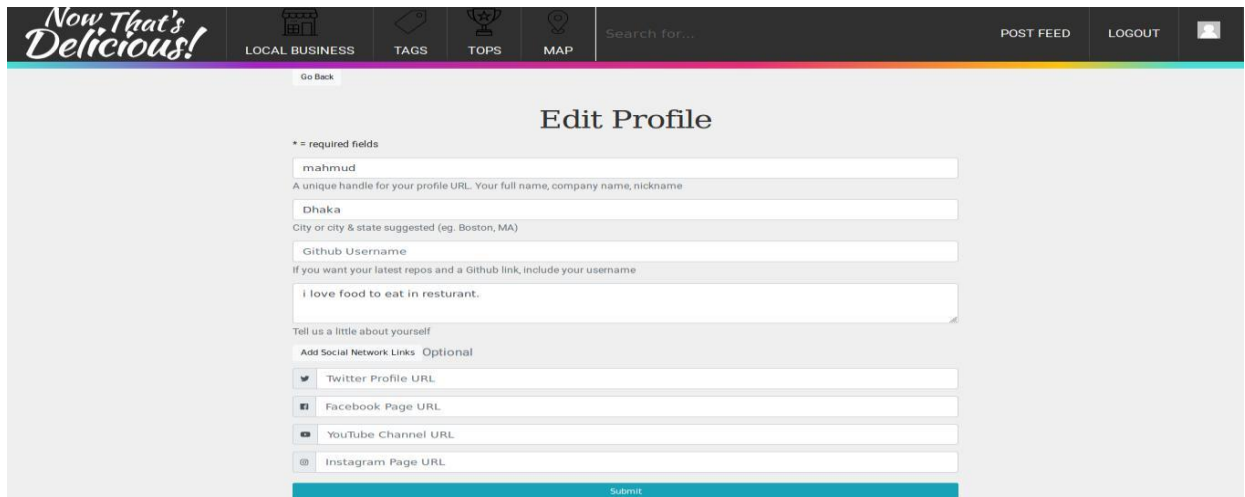
Functionality:

User profile page

Operation Flow:

Other user can see his/her profile

Every user have unique link for his/her profile



The screenshot shows the 'Edit Profile' form on the 'Now That's Delicious!' website. The header includes the logo and navigation links: LOCAL BUSINESS, TAGS, TOPS, MAP, Search for..., POST FEED, LOGOUT, and a user profile icon. The form itself has a 'Go Back' link and a title 'Edit Profile'. It includes a legend '* = required fields'. The form fields are: a text input for the name (filled with 'mahmud'), a text input for the profile URL handle (filled with 'Dhaka'), a text input for the city or state (filled with 'Dhaka'), a text input for the GitHub username (filled with 'Github Username'), a text area for a bio (filled with 'i love food to eat in restaurant.'), a section for social media links with a toggle for 'Optional', and four text inputs for Twitter, Facebook, YouTube, and Instagram profile URLs. A 'Submit' button is at the bottom.

Figure 5.7: User profile edit form

Functionality:

User can update his/her profile

Operation Flow:

User can update his profile

Add social media link

Map

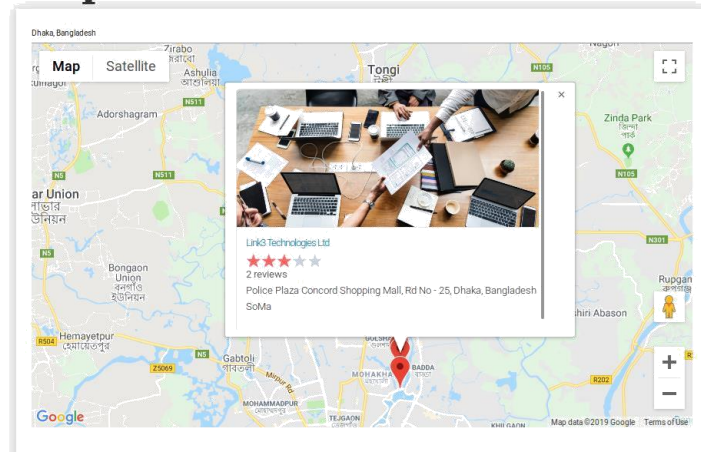


Figure 5.8: Map Page

Functionality:

Search for services in specific area on 10 km radius

Operation Flow:

Write the area name in search bar

Get service on this area in 10km radius

User can watch icon of Business

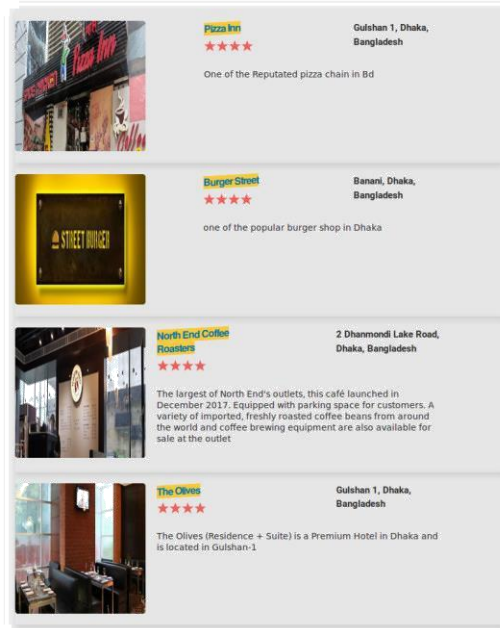


Figure 5.9: infinite scroll page

Functionality:

Infinite scroll page for business

Operation Flow:

User just need to scroll for browse new business

No need of pagination

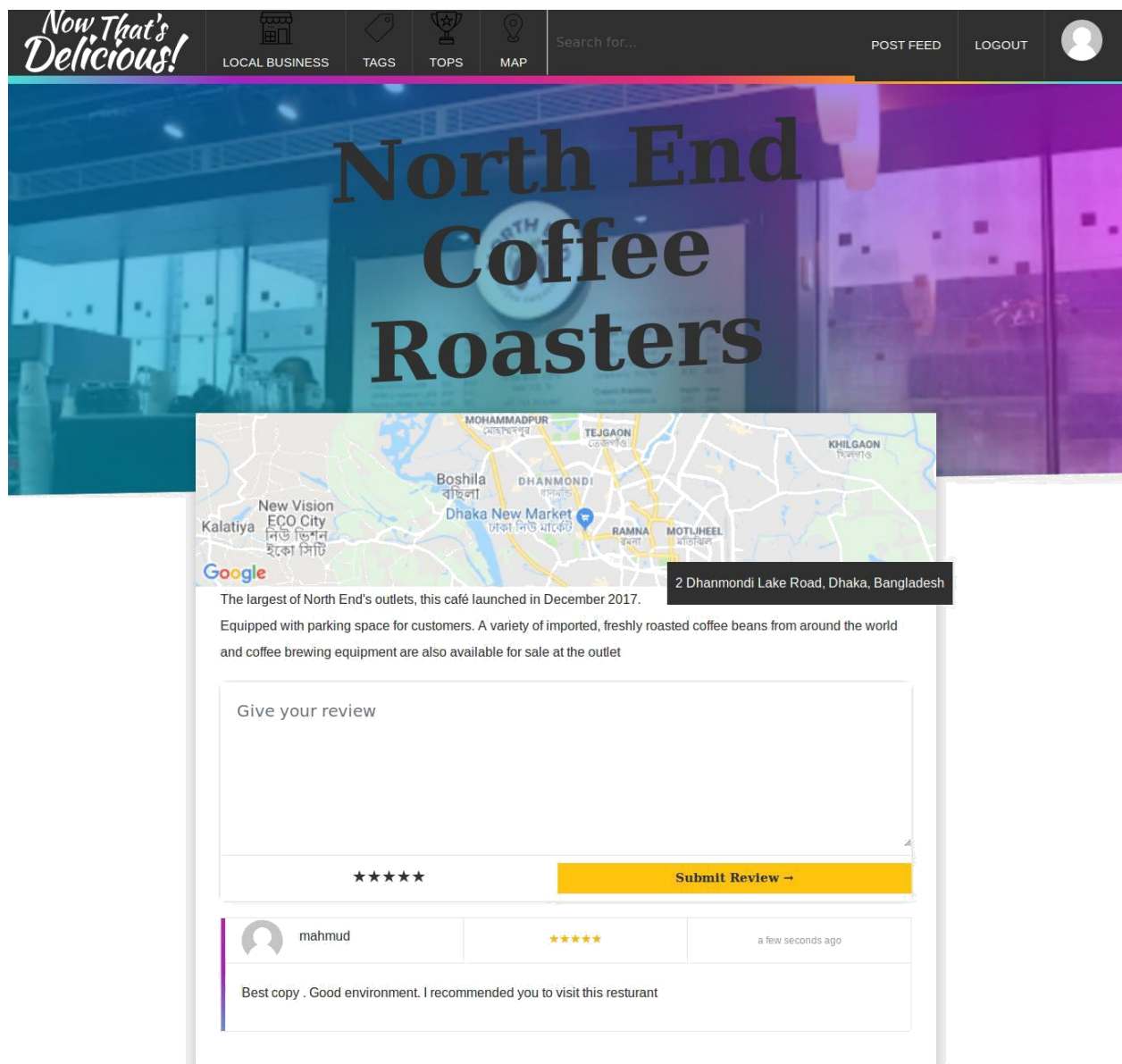


Figure 5.10: Business Profile page

Functionality:

User can see the details of a business in this page

Operation Flow:

User can review and rating this page

Watch others review and rating

Find address of the business page

Can find the location on embedded google map on business page

Top 10 Business

photo	ranking	name	reviews	Average Rating
	1	Burger King		4.14/ 5
	2	Amber IT		2.50/ 5

Figure 5.11: Top Ranking Page

Functionality:

Give top 10 services based on rating and reviews of user

Operation Flow:

Click the Tops icon to get top services

User can know about which Business are at top

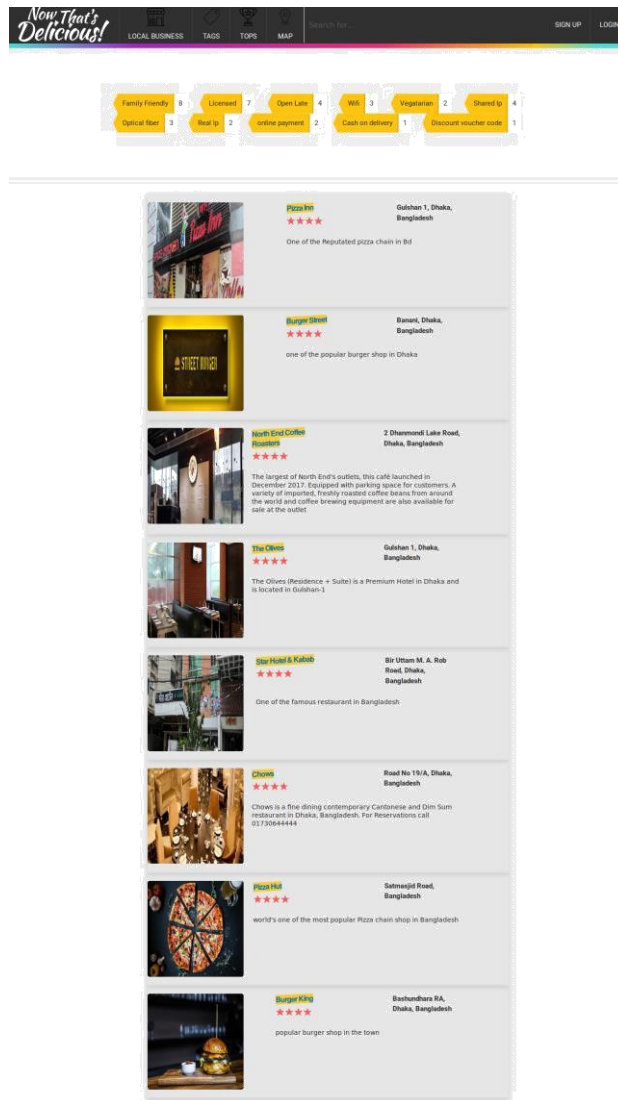


Figure 5.12: Tag Page

Functionality:

Browse Business by tag name

Operation Flow:

Click on any tag to get Business by tag

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

This venture has been structured in the route that in future alterations and improvement should be possible effectively. This following end howl can be induced from the improvement of this undertaking. Robotized of the entire venture upgrade the effectiveness. It has yielded a pleasant graphical UI (GUI) that show to be better as weight up to the undertaking.

It gives precise access to lawful clients relies upon their approvals. It practically overcomes the moderate up in correspondences.

Modernize of data swing to easy.

Information security, framework security, and unwavering quality are the drawing in attributes.

This System has an adequate office to alter later on the off chance that it is required.

Nowadays, most of the consumers are heavily dependent on online reviews. So, online review based websites play a vital role to establish the success of a business. To see exactly how much online surveys can affect a business, how about we take a gander at Yelp explicitly. On Yelp, each audit contains an entire star rating, and the normal is adjusted to the closest half star (so an eatery with a 3.24 normal is appeared with 3 stars, while 3.26 turns into a 3.5-star normal). This issues, since that additional half-star will make an eatery be completely reserved 19% all the more regularly! We have a plan about making our project as close as yelp. So that it can become the best user review and recommendation system of Bangladesh.

6.2 Scope for Further Developments

In this Application, there are a few restrictions. One user can give multiple reviews, although we tried to prevent fake reviews it is not hundred percent guaranteed that we

can detect all fake reviews. In our application, there is no feature like a news feed. Where a user can get the latest update.

Future Enhancement:

Fake review detection.

Preventing multiple reviews from a user in a day.

REFERENCES

- [1] <https://www.xsellco.com/resources/importance-of-online-reviews/>
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User review and recommendations system_Ashiqur

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