



FOOD BOT

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A project submitted in partial fulfillment of the requirement for the degree of Bachelor of Science in Software Engineering

Department of Software Engineering

DAFFODIL INTERNATIONAL UNIVERSITY

Approval

This **Project** titled “**Food Bot**”, submitted by **Akash Kundu, ID:161-35-1570** 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 B.Sc.in Software Engineering and approved as to its style and contents.

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At first, I am blessed as have successfully moved towards the last semester. I am pleased to my almighty. First of beginning of university life, I have learned a lot about software engineering as well as computer science related knowledge from my university knowledgeable teachers and helpful big brothers. Teachers teach us ethics, morality and politeness as well as software knowledge and related knowledge. I must be thankful to my parents and my family for give me the opportunity and always be to myself. My family always supports me. My family prioritize my inspired and opinion as well.

I am grateful to my supervisor Tapushe Rabaya Toma for allowing me for doing to development the project. Madam supports to make these project (Food Bot) successful.

ABSTRACT

This project is “Food Bot”. Food Bot is a web based project to help gardeners to ensure greater profitability through direct gardener to gardener and gardener to retailer communication. This service boost business communication and brings transparency in the system. This site allows registered gardener and retailer to sell their growing plants and products. Every software development follows some rules and method, I also following some method to develop this project. My whole project work will follow the agile methodology. Which is best software development process to develop a software. I choose it because my whole project needs to implement some part then test it and agile methodology will help me to reduce the project risk.

TABLE OF CONTENT

CHAPTER 1 INTRODUCTION

1.1 Project Overview	11
1.2 Project Purpose	11
1.2.1 Background	12
1.2.2 Benefits & Beneficiaries	12
1.2.4 Goals	13
1.3 Stakeholders	13
1.3.1 Admin	13
1.3.2 Clients	14
1.4 Proposed System Model	14
1.5 Project Schedule	15
1.5.1 Gantt Chart	15
1.5.1 Gantt Chart	16
1.5.2 Release Plan or Milestone	16

CHAPTER 2 SYSTEM REQUIREMENTS

2.1 Functional Requirements	17
2.1.1 Clients must have a web browser in his phone	18
2.1.2 Clients must have to input IP address	18
2.1.3 Clients can view food list	18
2.1.4 Clients can select food	28
2.1.5 Clients can confirm his order	19
2.1.6 payment procedures	19
2.1.7 Clients will get confirmation Token	19
2.1.8 Admin can see customer order information	20
2.1.9 Admin will place the order	20
2.1.10 Admin log in	21
2.1.11 Admin can view dashboard	21

2.1.12 Admin can see all slider	21
2.1.13 Admin can insert slider	22
2.1.14 Admin can update slider	22
2.1.15 Admin can delete slider	22
2.1.16 Admin can see all food list	23
2.1.17 Admin can insert food	23
2.1.18 Admin can update food bot	23
2.1.19 Admin can see daily sales	23
2.2 Data Requirements	24
2.3 Performance Requirements	29
2.3.1 Speed & Latency Requirements	30
2.3.2 Capacity Requirements	30
2.4 Dependability Requirements	31
2.4.1 Reliability & Availability Requirement	31
2.4.2 Robustness or Fault-Tolerance Requirements	31
2.4.3 Safety-Critical Requirements	32
2.4.4 Maintainability and Supportability Requirements	32
2.5 Maintainability Requirements	32
2.5.1 Supportability Requirements	32
2.6 Security Requirements	33
2.6.1 Access Requirements	33
2.6.2 Integrity Requirements	33
2.6.3 Privacy Requirements	34
2.7 Usability and Human-Interaction Requirements	34
2.7.1 Ease of Use Requirements	34
2.7.2 Personalization and Internationalization Requirements	34
2.8 Understandability and Politeness Requirements	35
2.9 User Documentation Requirements	35
2.10 Operational and Environmental Requirements	35

2.10.1 Expected Physical Environment	35
2.10.2 Requirements for Interfacing with Adjacent Systems	35
2.10.3 Release Requirements	35
2.11 Legal Requirements	36
2.11.1 Compliance Requirements	36
2.11.2 Standards Requirements	36
 CHAPTER 3 REQUIREMENT ANALYSIS	
3.1 Use case Diagram	38
3.2 USE CASE DESCRIPTION	39
3.2.1 Input IP Address	39
3.2.2 View food list	39
3.2.3 Select food	40
3.2.4 Confirm Order	40
3.2.5 Payment Process	41
3.2.6 Confirmation token	41
3.2.7 Registered User	42
3.2.8 Get order information	42
3.2.9 Update food menu	43
3.2.10 Total Sale	43
3.3 Activity Diagram	44
3.3.1 Input IP Address	44
3.3.2 View food list	45
3.3.3 Select food	46
3.3.4 Confirm order	47
3.3.5 payment Process	48
3.3.6 Confirmation Token	49
3.3.7 Registered User	50
3.3.8 Confirm Message	51

3.4 SEQUENCE DIAGRAM	56
3.4.1 Input IP Address	56
3.4.2	57
3.4.3 Discount offer for Admin	58
3.4.4 Live chat	59
3.4.5 Location map for Admin	60
3.4.6 Search	61
3.4.7 Slider for Admin	62
3.4.8 Confirm	63
3.4.9 Total sale	64

CHAPTER 4 SYSTEM DESIGN SPECIFICATION

4.1 Development tools and technology	66
4.1.1 User interface technology	66
4.1.1.1 CSS framework or Bootstrap	66
4.1.1.2 Programming language	66
4.1.2 Implemented tools and platform	66
4.1.2.1 Integrated development environment	67
4.3 CLASS DIAGRAM:	69
4.3 ENTITY-RELATIONSHIP DIAGRAM:	70

CHAPTER 5 SYSTEM TEST

5.1 Testing Features	72
5.1.1 Features to be tested	72
5.2 Testing Strategies	72
5.2.1 Test approach	73
5.2.1.1 Black Box Testing	73
5.2.1.2 Boundary Value Analysis	73
5.2.1.3 White Box Testing	73

5.2.2 Pass / Fail Criteria	74
5.2.3 Testing Schedule	74
5.2.4 Traceability Matrix	75
5.3 Testing Environment	76
5.4 Test Cases	76
5.4.1 Log In	77
5.4.2 Add item	78
5.4.3 Confirm order	78
5.4.4 Total sale	79
 CHAPTER 6 USER MANUAL	
6.1 Homepage	83
6.2 Homepage	84
6.3 Gallery	85
6.4 Contact	86
6.5 Live Chat	87
6.6 Search	88
6.7 StreetFood List	89
6.8 Write Review	90
6.9 Admin Log In	91
6.10 Dashboard/Admin Panel	92
6.11 Add Slider	93
6.12 Edit Slider Image	94
6.13 Delete Slider Image	95
6.14 Add Discount Offer	96
6.15 Publish Discount Offer	97
6.16 Delete Discount Offer	98
6.17 User Review Overview	99
6.18 Add Location Map	100

6.19 Edit Location Map	101
6.20 Delete Location Map	102
6.21 Add StreetFood	103
6.22 Edit StreetFood	104
6.23 Edit StreetFood	105
6.24 Delete StreetFood	106

CHAPTER 7 CONCLUSION

7.1 Project Summary	108
7.2 Limitations	108
7.3 Obstacles and Achievements	108
7.4 FUTURE SCOPE	109

CHAPTER 1

INTRODUCTION

1.1 Project Overview:

Now a day, computers are a large computing and power at least all business is moved to advantages of restaurant management system upgrade to technologies. But in this time digitization and certification becomes a mandatory element for all kind of business infrastructure and farm. For the cause of provides proper security and can easily auto generate system like order, billing, customer management etc. also provides confidential and security individual panel.

Nowadays security and confidentiality on web base software is more than important for a business company for all kind of business especially ltd. online base software system in modern world is more essential for access easily in multiple places. It also maintains and access system accounts and information with multiple places by multiple people who have authorized. It's make more than secure data backup in cloud.

Smart organization wants to maintain official process with easy and authentic way with sort time. Make sure the process mainly getting order from customer for a session time. It's reduced man power dependency and save time. Stack holder can view current position of business any time anywhere with access web software.

Two users can maintain the system. Admin can see all the activity done by the client. Admin can create the table session for the customer and the customer use the IP address to get menu and giving his order to the manager in the time manager can get the order and then customer can see the bill customer can give his bill in cash or card. After the end of the session all information update in the admin panel and then the manager can create another session for new customer.

1.2 Project Purpose:

“Food Bot” is a web app which is developed to make a platform to interconnect Food lovers & Street Food vendors. Bangladesh is land of delicious foods. Street Food is gaining popularity now a days. We will surely find a cart or a small local shop beside any lake, playground or even in a busy road.

Mainly cart vendors don't have much wealth to promote their business. So, many local shops don't gain popularity though they have every potential to provide best quality food. On the other hand, mass people especially food lovers can't find those small retailers and become deprived of delicious foods. So, keeping this fact in our mind we have introduced a web platform which will help vendors to promote their business and help people to get their desired delicious food.

“Street Food Finder” provides location, menu, contact and review of street food vendor which will be open for everyone for viewing. Any user can provide their valuable review & rating about a vendor. They can find a location by using map. Any user can find street food vendors by using its interactive search engine.

1.2.1 Background:

Based on restaurant order system I want some automated order from client when they come to the restaurant. Here the client can order their food from their own mobile phone using IP sharing. So that, I try to make full software development order.

1.2.2 Benefits & Beneficiaries:

Would be beneficiaries and also benefits for some of point. I am mentioning those below:

- Our system helps the restaurant to make a standard software based-restaurant.
- Stored information in cloud so that it might be more safe and secure.
- Web based system make to easy access in anywhere for ~~authorized person~~.
- Find out any customer information easily with details.
- Customer can get a smart billing and order system.
- Less the manpower cost.
- Admin can check every think from outside of the restaurant.
- Can get the statistic report of which food sold more in the time.

1.2.3 Goals:

Every Project must have a specific goal. My project has also. Main goals of my project are to develop web base restaurant maintenance system. Where the system can maintain mainly take order from customer and bill, admin can see the order and provide it to the chef.

1.3 Stakeholder:

A person who involve in this web site and he is not a developer. According to project manager, project partner “like a person, group or organization will be influenced or affected by in a decision, activity or outcome of the project.” We have admin and clients/users. Below discuss about of stakeholders:

1.3.1 Admin:

Admin control this website. Admin can add a food slides with image, Admin can view the client’s details. He also approve the client order.

Admin also can update all the information, he can edit or delete the information. He can overview the monthly sales and revenue.

1.3.2 Clients:

Clients can order their food from their own mobile phone using IP sharing. After successfully entering into the webpage they find the home page. Then they can order their food.

1.4 Proposed System Model:

Proposed model system means explaining what I'm going to do this project. What is about my project and what is new in my project other than existing things. And how I'm going to do this. In short proposed model system is explaining your project.

To deploy software that satisfies its intended purpose, I have to meet and engage users in a specific structure, to expose the real requirements of my system. We build this model to communicate the desired structure and behavior of my system. I build this model to visualize and control the system's architecture.

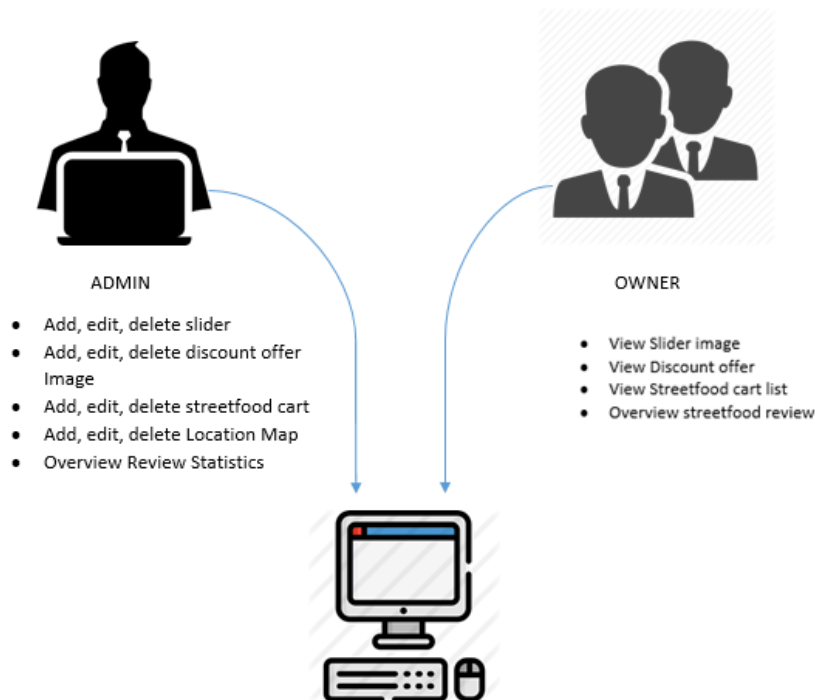


FIGURE: PROPOSED SYSTEM MODEL

1.5 Project Schedule

We need to ready a scheduling plan to complete the project on time. It also refers to make communication with what task needs to get done within time frame.

1.5.1 Gantt Chart

Gantt chart is mainly production control tools. It remained us to complete our assigned tasks within a certain period of time. For developing software, it is mostly used. Now I will show a Gantt chart for our project.

Activities		W 1	W 2	W 3	W 4	W 5	W 6	W 7	W 8	W 9	W 10	W 11	W 12	W 13	W 14	W 15	W 16
Planning	Ideas																
	Problem identification																
	Proposal planning																
Requirements	Requirement specification																
	Requirement analysis																
QA-1	Quality assurance																
System design	Sketching																
	Design specification																
	Database design																
Implementation-1	Write Review																
QA – 2	Test cases																
Implementation-2	Impose case & demerits																
Testing	Unit testing																
	Black box testing																
Delivery	Software release																
Scheduled time																	
Buffered time																	

FIGURE: Gantt Chart

1.5.2 Release Plan or Milestone

The release plan or milestones are given below:

Activities	Duration in week	Total week
Brainstorming	Week 1	1
Problem identification	Week 1, Week 2	2
Requirement specification	Week 2	1
Requirement analysis	Week 2, Week 3, Week 4	3
Sketching	Week 4, Week 5	2
Design specification	Week 5, Week 5	2
Database design	Week 4, Week 6	2
Write Review	Week 4, Week 5, Week 6, Week 7, Week 8	5
Quality assurance	Week 3	1
Test case	Week 3, Week 6, Week 7, Week 8, Week 9	5
Impose case & demerits	Week 9, Week 10, Week 11, Week 12, Week 14	5
Unit testing	Week 3, Week 6, Week 7, Week 8, Week 9	5
Black-box testing	Week 13, Week 14, Week 15	3
Software release	Week 16	1

CHAPTER 2

Software Requirement Specification

2.1 Functional requirements (FR):

Functional requirements referred to a mandatory function which mandatory to the system. It must be able to perform for a web and also all kind of software system. All kind of application system has some functional requirements. Now, we are showing to mention functional requirements associating with this project.

2.1.1 FR 1 Clients must a web browser in his phone:

FR-01	Web browser
Description	This Module allows the clients to get enter in to the system
Stakeholders	Clients

2.1.2 FR 2 clients have to input the IP Address for check Menu:

FR-02	Input IP address
Description	This Module allows the customers for getting access into the system.
Stakeholders	Clients

2.1.3 FR 3 Clients can view food list:

FR-03	View food list
Description	This Module allows the admin Clients to view all the food listed in the menu of the restaurant.
Stakeholders	Clients, Admin.

2.1.4 FR 4 Clients Can Select Food:

FR-04	Select Food
Description	This Module allows the clients to select food from the menu of the system.
Stakeholders	Clients

2.1.5 FR 5 Clients can confirm his order:

FR-05	Confirm Order
Description	This Module allows the users to confirm order and order details.
Stakeholders	Clients

2.1.6 FR 6 Payment procedures:

FR-06	Payment Process
Description	This Module allows the clients admin for giving payment and see details.
Stakeholders	Admin, clients.

2.1.7 FR 7 Clients will get confirmation token:

FR-07	Confirmation Token
Description	This Module allows the customers to receive token and admin for record delivery.
Stakeholders	Customer ,Admin

2.1.8 FR 8 Admin can see customer order information:

FR-08	Get Clients order information
Description	This Module allows the admin and restaurant manager to get confirmation message of food order.
Stakeholders	Admin

2.1.9 FR 9 admin will place the order:

FR-09	Place Order
Description	This Module allows the manager to place order after getting confirmation.
Stakeholders	admin.

2.1.10 FR 10 Admin can sign in:

Requirements 10	Registered User
Description	For security, it's needed to login. It's mandatory for the admin. Admin has to be signed in with a specific password.
Stakeholder	Admin

2.1.11 FR 11 Admin can view the dashboard:

Requirements 11	Admin can view the dashboard
Description	Admin can update all the details in the website. All of that detail can found in dashboard. From there admin can update, edit or delete any data.
Stakeholder	Admin

2.1.12 FR 12 Admin can see all the slider:

Requirements 12	Admin can see all the slider
Description	As admin control the website. So, it's very easy for admin to see all slider..
stakeholder	Admin

2.1.13 FR 13 Admin can insert slider:

Requirements 13	Admin can insert the slider
Description	Only Admin control all the things of the website. So, admin can insert any slide in the website.
Stakeholder	Admin

2.1.14 FR 14 Admin can update slider:

Requirements 14	Admin can update slider
Description	Admin can update anything of the page.so admin can update slider.
Stakeholder	Admin

2.1.15 FR 15 Admin can delete slider:

Requirements 15	Admin can delete slider
Description	Only admin can edit any type of data. So, only can delete the slide.
Stakeholder	Admin

2.1.16 FR 16 Admin can see all food list:

Requirements 16	Admin can see all food list
Description	As admin viewing dashboard. So, admin can see all food.
Stakeholder	Admin

2.1.17 FR 17 Admin can insert food:

Requirements 17	Admin can insert food.
Description	Admin can edit or insert dashboard's data.
Stakeholder	Admin

2.1.18 FR 18 Admin can update Food Bot:

Requirements 18	Admin can update food bot
Description	Admin can view all the data of the dashboard also can update. So, admin can update food bot
Stakeholder	Admin

2.1.19 FR 19 Admin can see daily sales:

Requirements 19	Admin can see daily total sale
Description	Admin can view all the data of the dashboard. Before closing the restaurant admin can view the daily total sales
Stakeholder	Admin

2.2 Data Requirement:

Data requirements are prescribed directives or consensual agreements that define the content and/or structure that constitute high quality data instances and values. Data requirements can thereby be stated by several different individuals or groups of individuals. So, we need to focus on some major points.

Such as:

- Data source sequence
- Quantity of data
- Capacity and resources of the data requirements
- Types of entity of the system
- Route data locations
- Data availability schedules
- Availability of data

2.3 Performance Requirements:

Easy to use. Comfortable for various devices and browsers. Default hosting capability. During the process, it will not be more than two seconds to update the data response time of any kind.

2.3.1 Speed & Latency Requirements:

Speed and latency requirements must be ensured while retrieving data from the cloud server.

SLR-1	Inputting data validation must be faster.
Description	When user wants to add any information, then all information validation results must show so quickly.
Stakeholders	Admin and User

2.3.2 Precision & Accuracy Requirements:

One cannot accurately measure a test. How far away from your "sign" is described by accuracy and how much measurement is described by the precision.

PAR-1	Searching result must be accurate.
Description	When users search for any information, then the search results must be shown according to the input value.
Stakeholders	Admin and User

2.3.3 Capacity Requirements:

The system must be capable to handle user data, provide accurate details, managing database, manage http/https request etc.

CR-1	The system will handle thousands of data.
Description	The system needs to handle data on thousands of data every moment.
Stakeholders	All authorized users

2.4 Dependability Requirements:

Dependability requirement need to make a good project not only good project its help us to detect and remove error, avoid mistakes and limit damage caused by failure. Dependability requirement has four dimensions:

1. Availability
2. Reliability
3. Safety and
4. Security

In this project I used this dependability requirement with carefully. I use all the dimension for user friendly.

2.4.1 Reliability & Availability Requirement:

Reliability is the most effective for each project otherwise no one can use web application if there have no reliability requirement. In our web application give more secure and exact information to help users. Our system must be available all day long, every day in a week. The system must be web based and can access anywhere in any place. System must be malware-free.

2.4.2 Robustness or Fault-Tolerance Requirements:

It's a main thing for any kind of web application that the user who browsing website without any crush. We are ensuring that zero percent crush for this web application.

RFT-1	System can handle all user access without system crush
Description	So many users might hit the application system at a time. All requests must be handled without any error.
Stakeholders	Users

2.4.3 Safety-Critical Requirements:

There are no safety-critical requirements in our project.

2.4.4 Maintainability and Supportability Requirements:

It is very important to provide after service or support to the end users.

2.5 Maintainability Requirements:

MR-1	System has to be updated for user
Description	It is must be update security system by sudden time period.
Stakeholders	Users

2.5.1 Supportability Requirements

Supportability requirements may have related to some extends. Like:

- Testability
- Maintainability
- Compatibility
- Configurability
- Serviceability

Our application meets all of the above requirements related to supportability

2.6 Security Requirements:

As an admin and clients' information maintenance system all kind of data is sensitive and authentic. Functionality related to software security can either be directly tested or observed. Some security related requirements are given below:

- Signing multiple admin in one platform.
- Get accesses according to logged in admin.
- Signing out as an admin.

2.6.1 Access Requirements:

Admin can access to the application system, there remains some authentication and authorization techniques. Now I will provide an explanation below.

EUR-1	Application provides security mechanism.
Description	Every module is designed in a way that it only gives access to the authorized and authenticated.
Stakeholders	Admin

2.6.2 Integrity Requirements:

Integrity requirements notify to the security system which ensures an expectation of data quality. For this reason, we will store our admin passwords as encrypted format which is impossible to decrypt.

2.6.3 Privacy Requirements:

Ensuring privacy of the system users. Privacy requirements enhances to protect stakeholder's privacy. When a user tells something about food cart in live chat or send message, it's never going to be disclose to other user.

2.7 Usability and Human-Interaction Requirements:

The most and the main target of developing any system is to make the system user friendly and easy to usable for the end users.

2.7.1 Ease of Use Requirements:

This web application is easy to use and also can easily understandable for any kind of user who love food.

EUR-1	Website must be usable and easy for clients.
Description	Our web application is usable to the clients by which they can easily order their food.
Stakeholders	Clients

2.7.2 Personalization and Internationalization Requirements:

“Food Bot” is a maiden version web application and it’s only be operated by Bangladesh. It has no personalization and internationalization requirements for our system.

2.8 Understandability and Politeness Requirements:

“STREETFOOD FINDER BD” is a web application which is understandable enough for user who love food. User can find easily about food cart.

2.9 User Documentation Requirements

Documentation requirements is prepared to make development life cycle easier for the system engineers or system analysts.

2.10 Operational and Environmental Requirements:

Operational and environmental requirement notify to the measurements of performance, measures of sustainability, measurements of technical performances, capabilities, performance measurements, process, measurements of effectiveness etc.

2.10.1 Expected Physical Environment:

There are no expected physical requirements in our system.

2.10.2 Requirements for Interfacing with Adjacent Systems:

There are no requirements for interfacing with adjacent system for our project.

2.10.3 Release Requirements:

Food bot is a web base application, so must be an internet connection and web browser for accessing the system is needed.

2.11 Legal Requirements:

Legal requirements mainly mention the terms and conditions for privacy and policy of any organizations. The terms and condition of our application is that, no third-party software without cloud is allowed to engage to use our data for their business purpose.

2.11.1 Compliance Requirements:

It has no specific compliance requirements for our system.

2.11.2 Standards Requirements:

It has no specific compliance requirements for our system.

CHAPTER 3

Requirement Analysis

3.1 Use case Diagram

In the Unified Modeling Language (UML), a use case diagram is a dynamic or behavior diagram. It summarizes the details of system's users and their interactions with the system. Here, a "system" is that thing which is being developed or operated, such like web site. The "actors" are the entities of the system.

System boundary boxes: Rectangle shape that contains use cases. The actors have to place outside the system's boundaries.

Use Case: Horizontally shaped ovals are used for use cases. Label of the ovals represent the system's functions. Labels are written with verbs.

Relationships: A simple line use to show relationships between an actor and a use case

Actors: Actors are the users of a system. Stick figures that symbolize the people, employing the use cases.

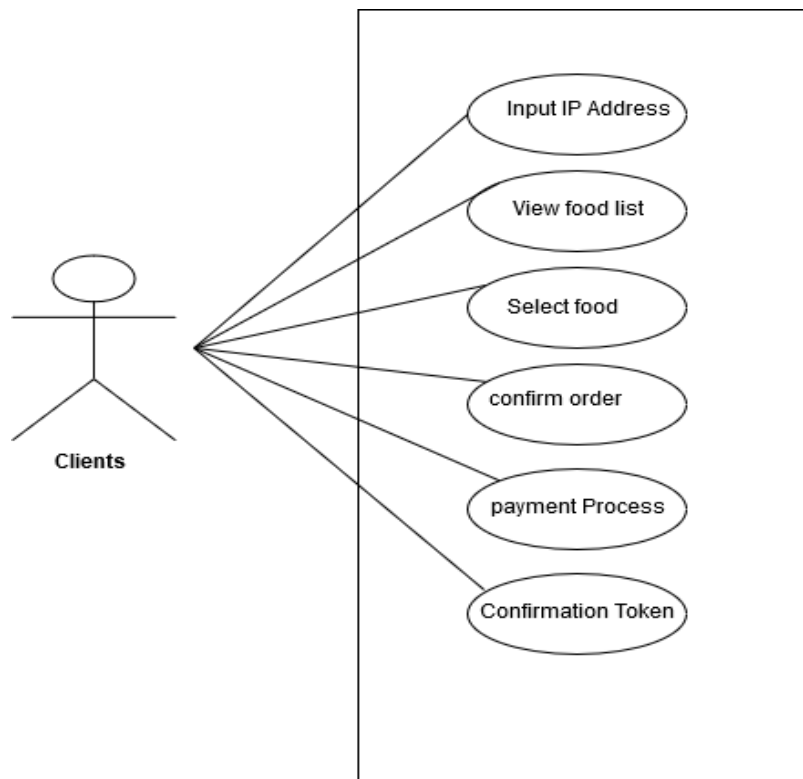


FIGURE: Use Case Diagram for Clients

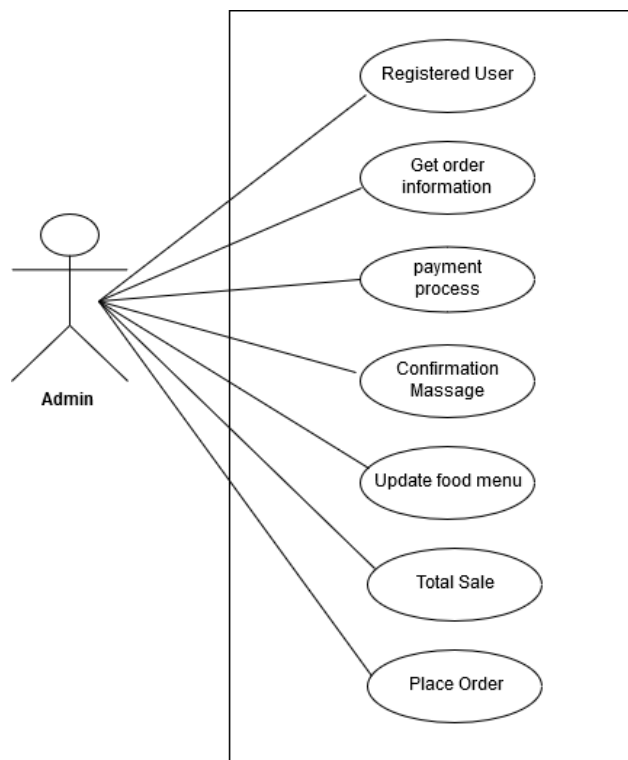


FIGURE: Use Case Diagram for admin

3.2 USE CASE DESCRIPTION

3.2.1 Input IP Address

Use case	Input IP address	
Use case no	01	
Goal	To enter into the webpage for order food	
Preconditions	Have to open his web browser	
Primary actor Secondary actor	Clients	
Trigger	Button	
Description/Main success scenario	Step	Action
	1	To enter website
	2	To see about the whole website
Post conditions	User can closed the window.	
Alternative flow	Not applicable	

3.2.2 View Food List

Use case	View food list	
Use case no	02	
Goal	This allows the admin Clients to view all the food listed in the menu of the restaurant.	
Preconditions	User need in open the webpage	
Primary actor Secondary actor	Clients, admin.	
Trigger	Button	
Description/Main success scenario	Step	Action
	1	Select the home
	2. view menu chart	
	3. Information will be shown	
Post conditions	User can closed the window or go other page.	
Alternative flow	Not applicable	

3.2.3 Select food

Use case	Select food	
Use case no	03	
Goal	This allows the clients to select food from the menu of the system..	
Preconditions	User need to type URL and then click order list option.	
Primary actor Secondary actor	Clients	
Trigger	Button	
Description/Main success scenario	Step	Action
	1	View chart
	2	Select item
	3	To know about everything about chart
Post conditions	User can closed window or browsing.	
Alternative flow	Not applicable	

3.2.4 Confirm Order

Use case	Confirm order	
Use case no	04	
Goal	Confirm the order	
Preconditions	Have to click save button	
Primary actor Secondary actor	Clients	
Trigger	Button	
Description/Main success scenario	Step	Action
	1	Enter the website
	2	Select save button
	3	Information will be shown
Post conditions	Can close window	
Alternative flow	Not applicable	

3.2.5 Payment Process

Use case	Payment process	
Use case no	05	
Goal	Can pay cash or card.	
Preconditions	Have to select his table number and name.	
Primary actor Secondary actor	Client, Admin	
Trigger		
Description/Main success scenario	Step	Action
	Step	Action
	1	Just select cash or card.
Post conditions	User would see the address	
Alternative flow	Not applicable	

3.2.6 Confirmation Token

Use case	Confirmation Token	
Use case no	06	
Goal	After successfully pass the payment clients get confirm token.	
Preconditions	Successfully done the payment	
Primary actor Secondary actor	Clients	
Trigger		
Description/Main success scenario	Step	Action
	1	Order done
	2	Order Confirmation.
Post conditions		
Alternative flow	Not applicable	

3.2.7 Registered User

Use Case Title	Registered User
-----------------------	-----------------

Use Case Number	7
Goal	Access this system only the authorized user.
Preconditions	• User must be authorized. • User must enter valid user mail and password. • Press Login button.
Primary Actor: Secondary Actor:	Admin
Trigger	Authorize panel can access.
Description/Main Success Scenario	Admin or Accounts officer enter the url and after successfully enter then enter login panel then input valid email and password. After successfully enter press login than if it's correct then login authorize panel.
Alternative Flows	Login panel again load.

3.2.8 Get Order Information

Use case	Get order Information	
Use case no	08	
Goal	Get all the order information from client	
Preconditions	Admin need to be log in	
Primary actor Secondary actor	Admin	
Trigger	Button	
Description/Main success scenario	Step	Action
	1	Get notification
	2	Check information
Post conditions	Admin approve the order and give it to chief	
Alternative flow	Not applicable	

3.2.9 Update food menu

Use case	Update food menu
Use case no	09

Goal	insert, delete any item from menu .	
Preconditions	Admin need to be log in.	
Primary actor Secondary actor	Admin	
Trigger	Button	
Description/Main success scenario	Step	Action
	1	To update menu list.website and monthly statistic view.
Post conditions	Admin can logged out.	
Alternative flow	Not applicable	

3.2.10 Total sale

Use case	Total sale	
Use case no	10	
Goal	Admin can generate to daily, or monthly sale	
Preconditions	Admin have to login to the system	
Primary actor Secondary actor	Admin	
Trigger	Button	
Description/Main success scenario	Step	Action
	1	Admin can calculate the overall sale.
Post conditions	User can talking with admin live.	
Alternative flow	Not applicable	

3.3 Activity Diagram:

We have prepared some activity diagram according to our use case. These activity diagrams are properly referring the flow of the individual conditions of our project.

3.3.1 Input IP Address

User enter the URL and after successfully enter then he/she can visit the website. Here have six options to choose and those are Homepage, Search, Streetfood list, Gallery, Live Chat, Contact. User can check Homepage.

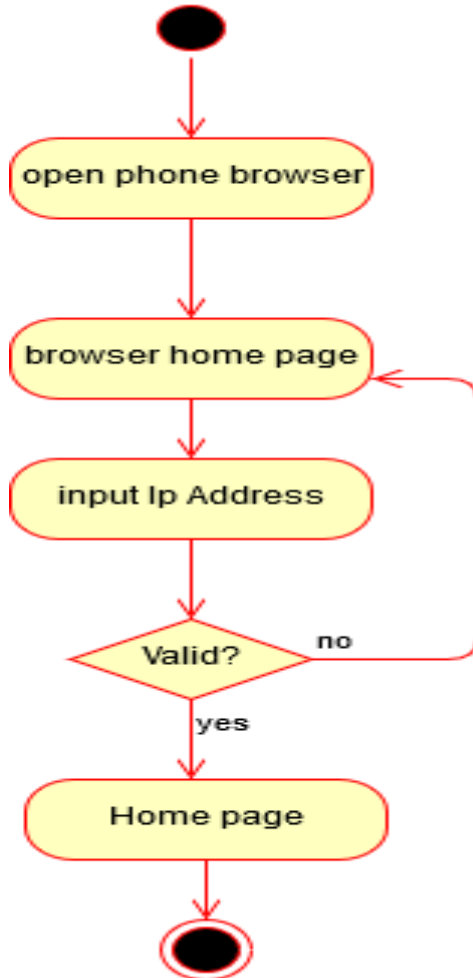


FIGURE: Input IP Address

3.3.2 View Food List

User go to Search button and will get a search bar for Location Search, then user can search for location.

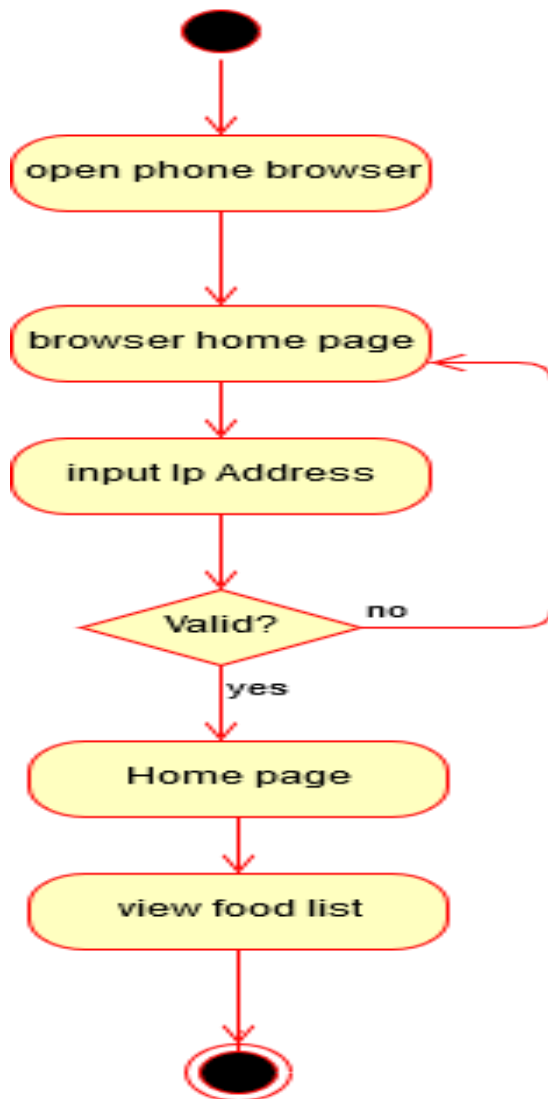


FIGURE: View Food List

3.3.3 Select food

User go to Streetfood List button and there will have food cart list one by one. They can select and press single one and will know about Menu, Location, Reviews, Overview and also give review to press Write Review.

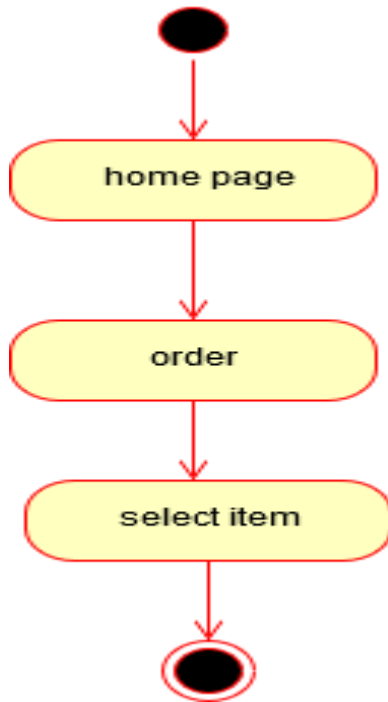


FIGURE: Select food

3.3.4 Confirm Order

User go to gallery and can view food image of every food carts' food.

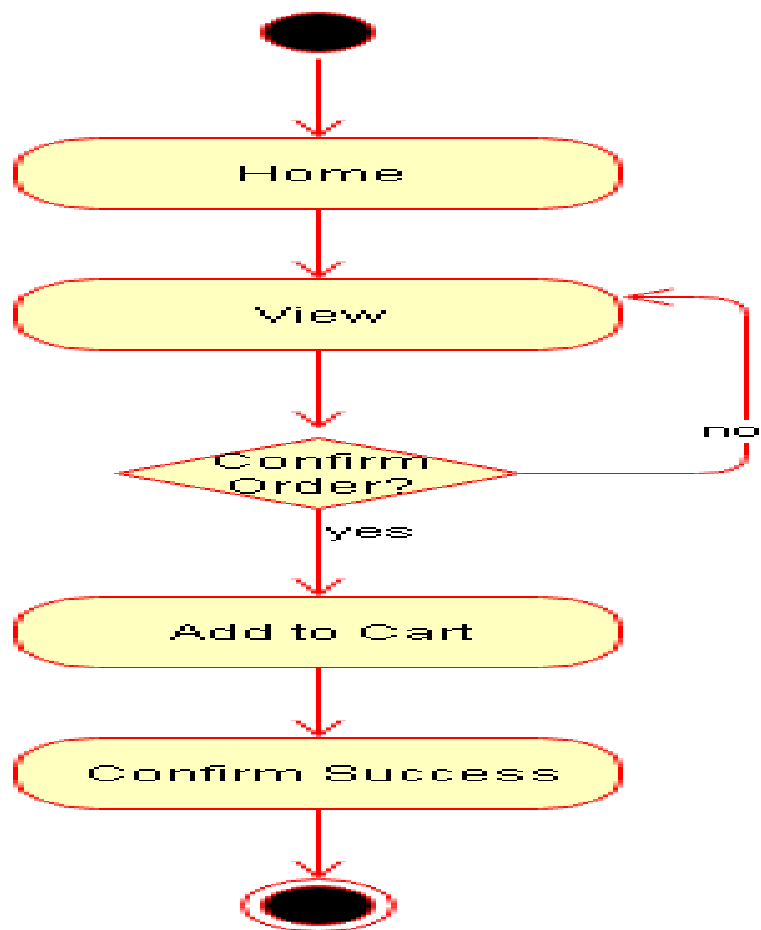


FIGURE: Confirm Order

3.3.5 Payment process:

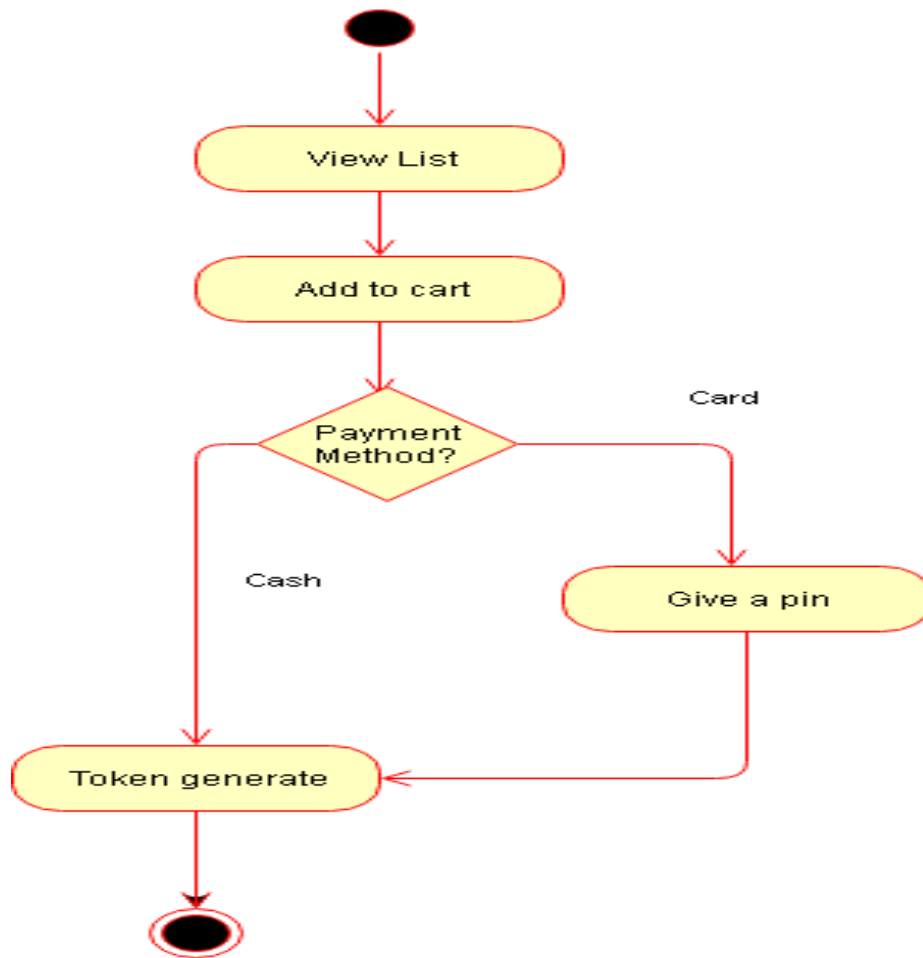


FIGURE: Payment Process

3.3.6 Confirmation Token:

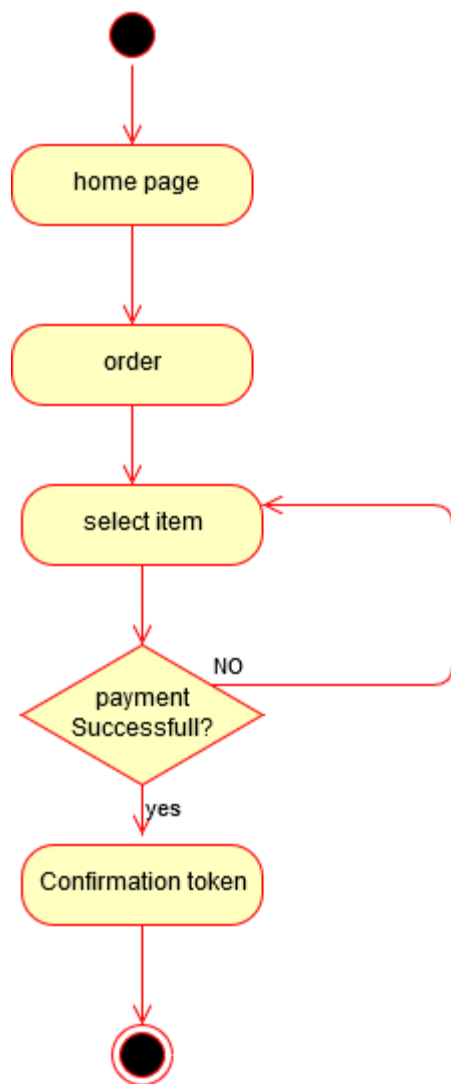


FIGURE: Confirmation Token

3.3.7 Registered User:

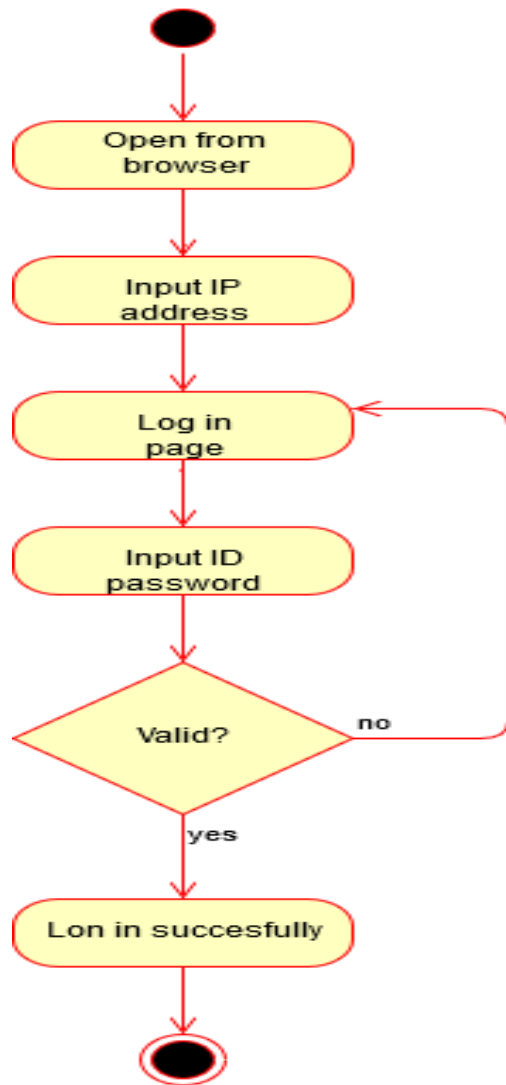


FIGURE: Registered User

3.3.8 Confirm message

Admin need to be logged in first then admin click Slider opiton and can add, edit or delete slider.

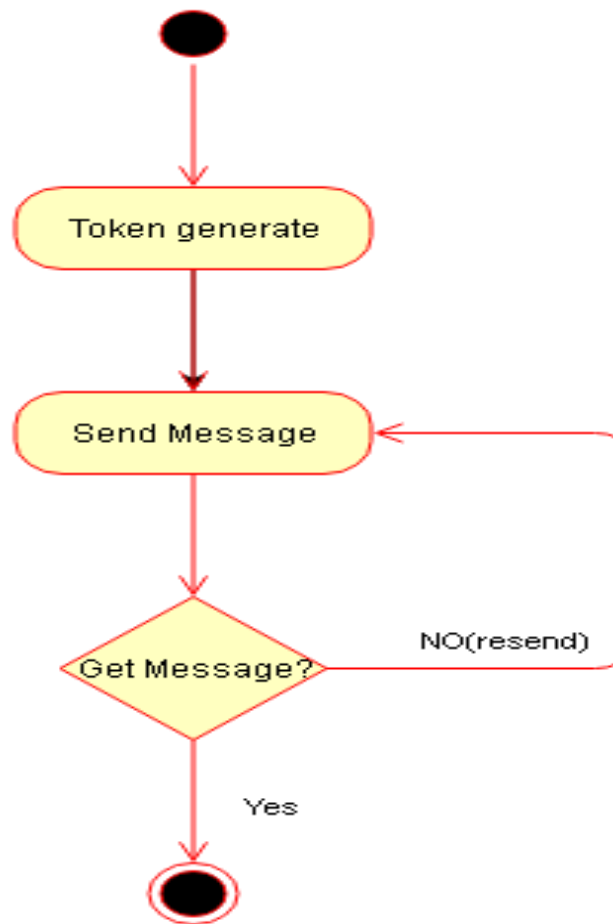


FIGURE: Confirm Message

3.3.9 Place Order:

Admin need to be logged in first then admin click Discount Offer option and can add, edit or delete discount offer.

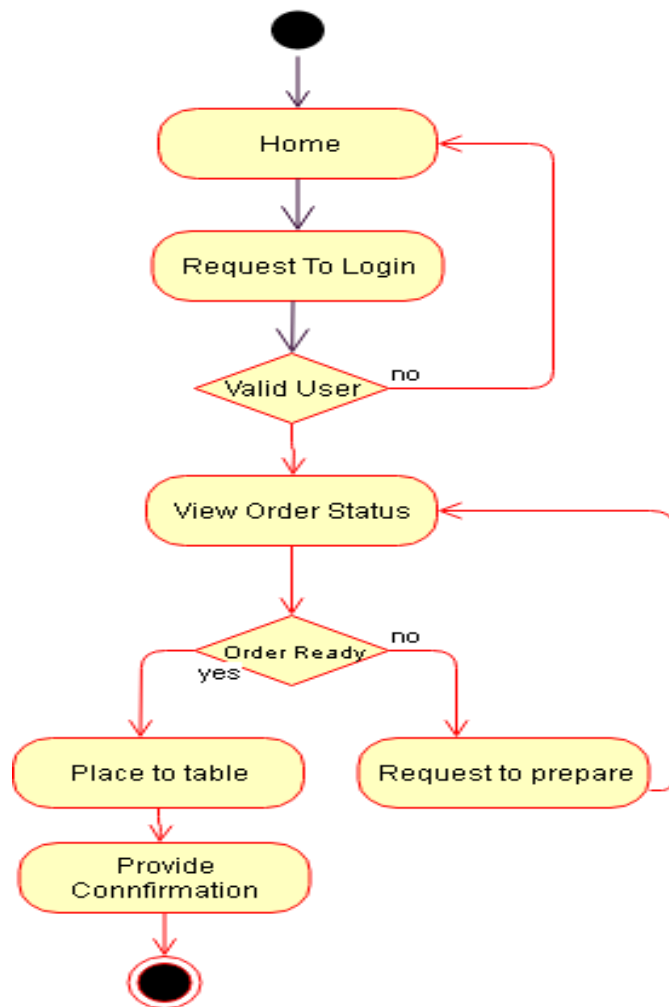


FIGURE: Place Order

3.4 SEQUENCE DIAGRAM

A sequence diagram, in the context of UML, represents object collaboration and is used to define event sequences between objects for a certain outcome.

3.4.1 Homepage:

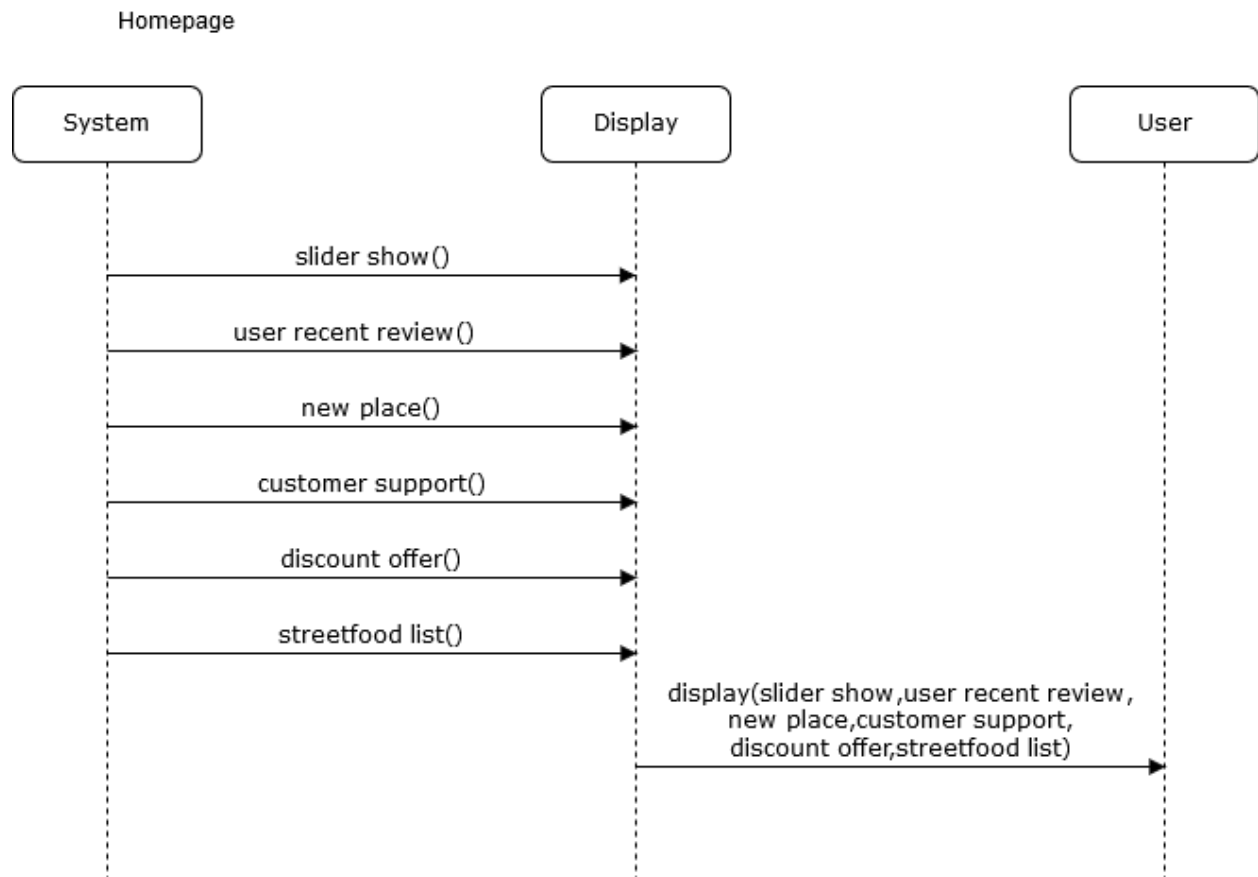


FIGURE: Homepage

3.4.2 Contact for User:

User enter the URL and after successfully enter, if they click on Contact button then they have to put required data on name, mail & message field. They can share with admin their problem or suggestion by message. After successfully press submit then, if it's correct then system will display a message.

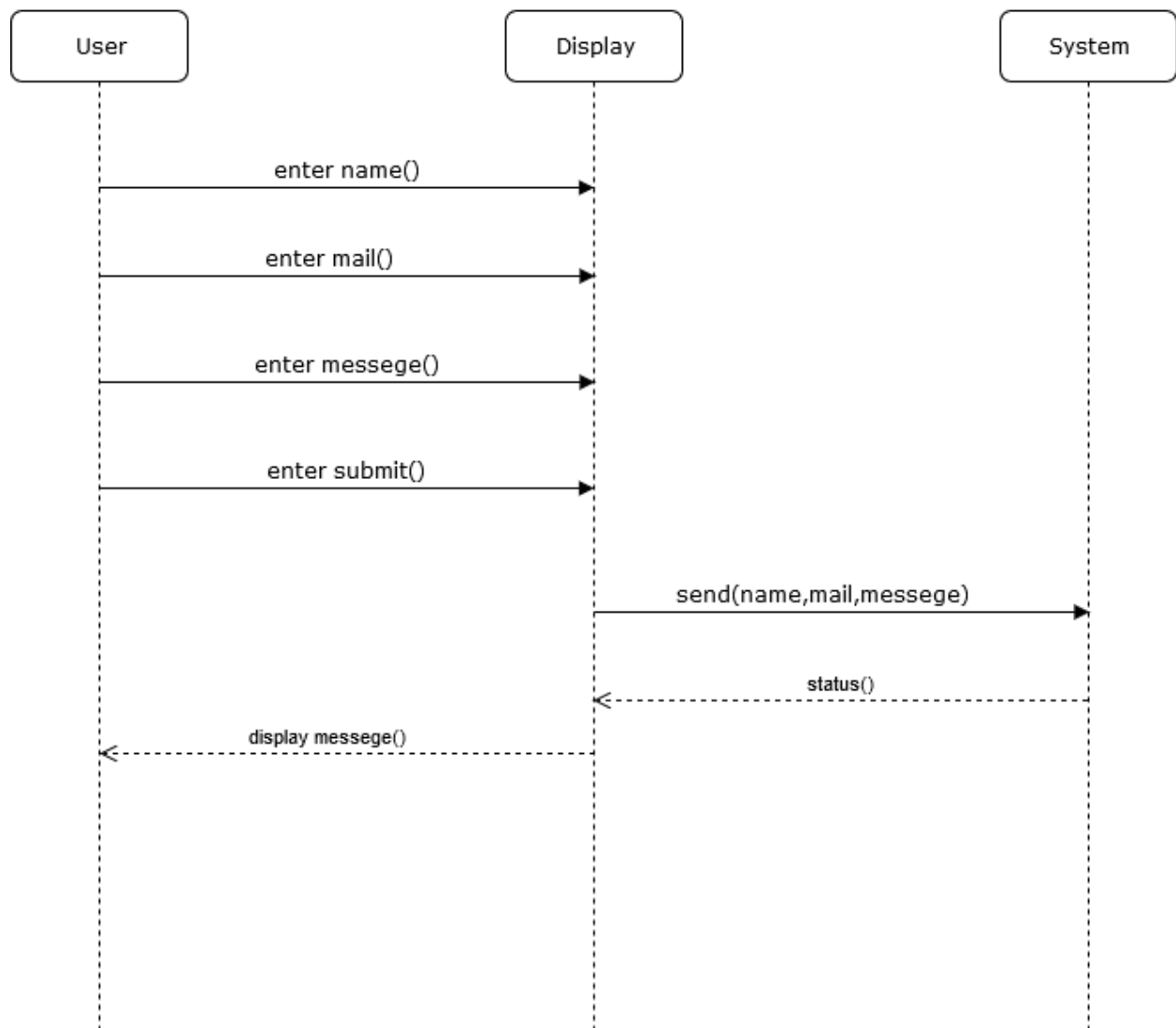


FIGURE: Contact

3.4.3 Discount offer for Admin:

Admin go to discount offer button then admin can add an offer by using an image, required quote, date. For showing purpose admin have to press submit button. Then system will display this.

Discount offer controller

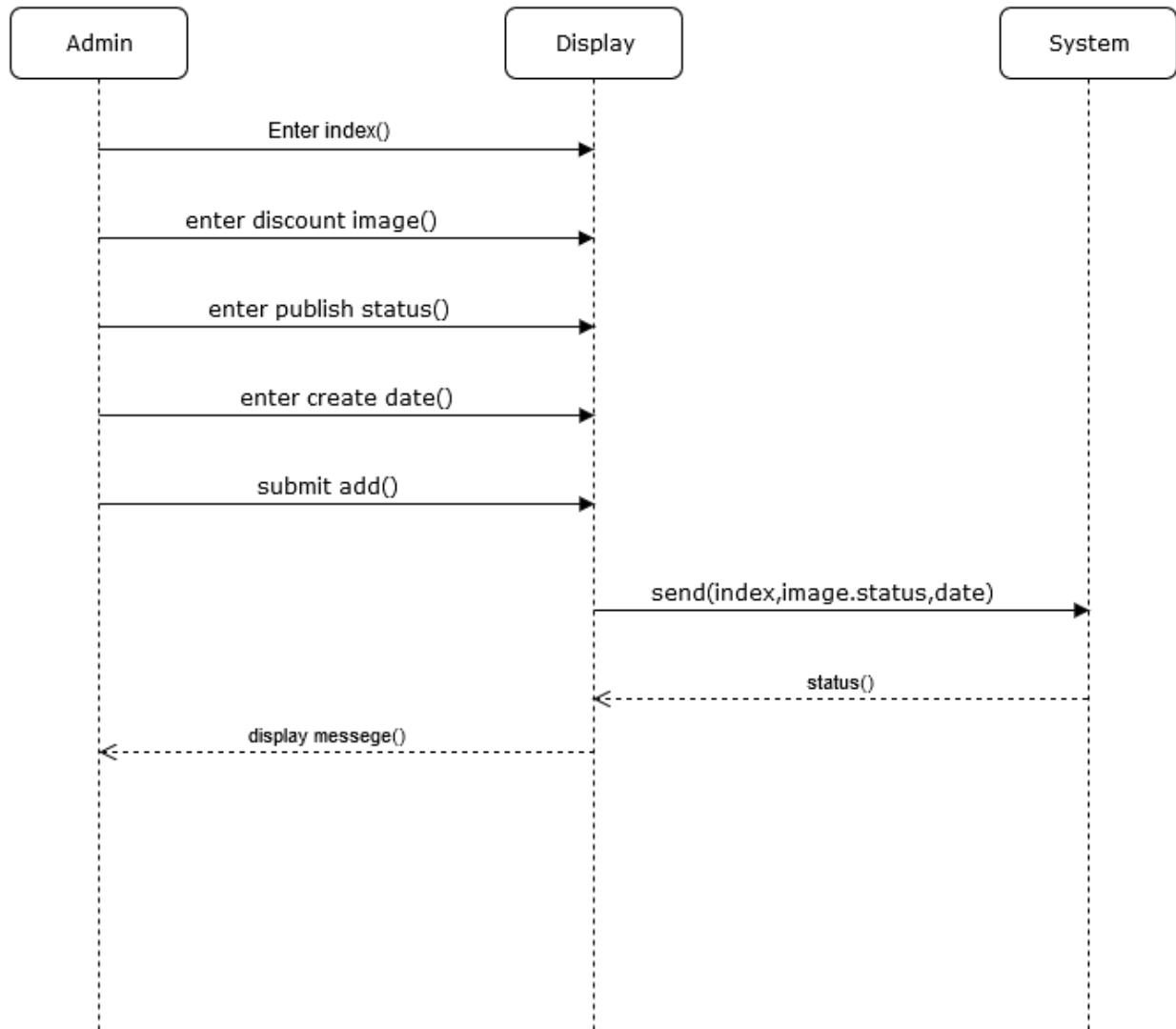


FIGURE: Discount Offer

3.4.4 Live chat:

If user face any problem to find or having suggestion or anything else, then here have chat box option that is Live chat and can send message. System will send feedback as soon as possible.

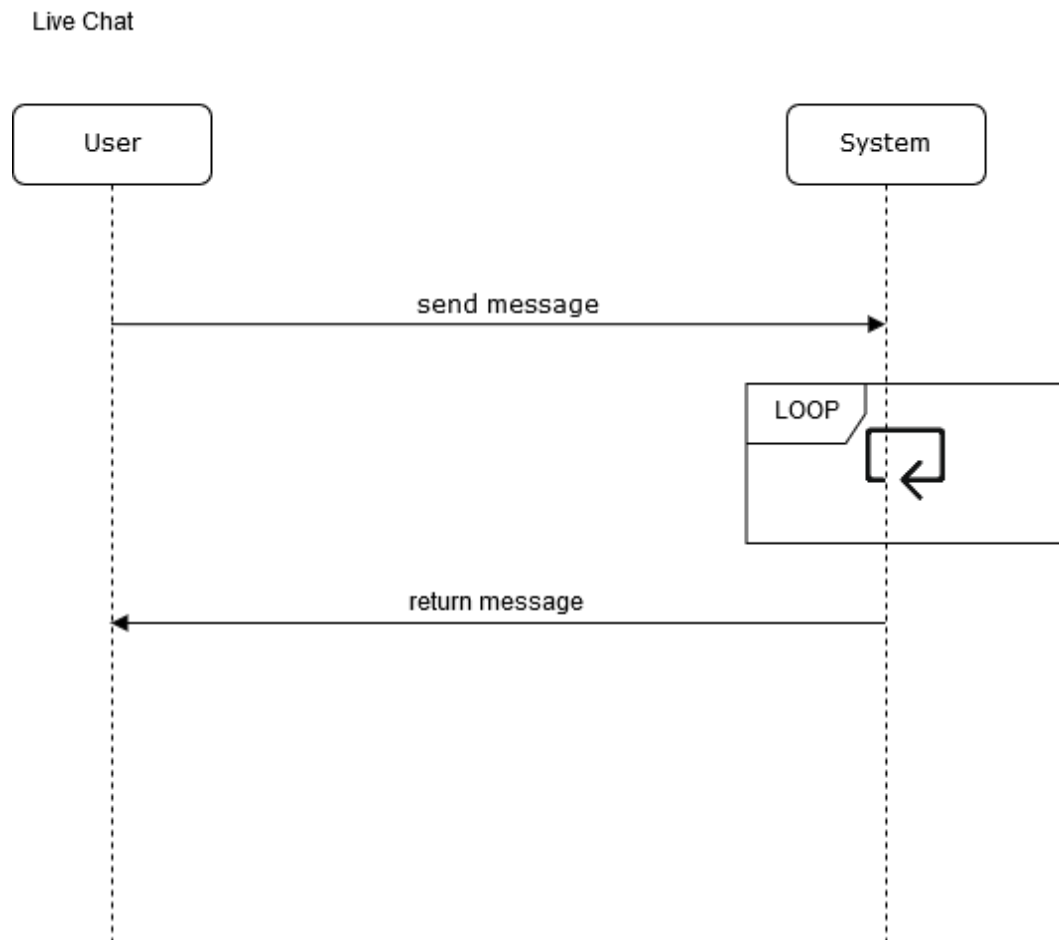


FIGURE: Live Chat

3.4.5 Location map for Admin:

Admin go to Location map button and can add a new location of foodcart, by using Foodcart Name, Address Title and Map option.

location map controller

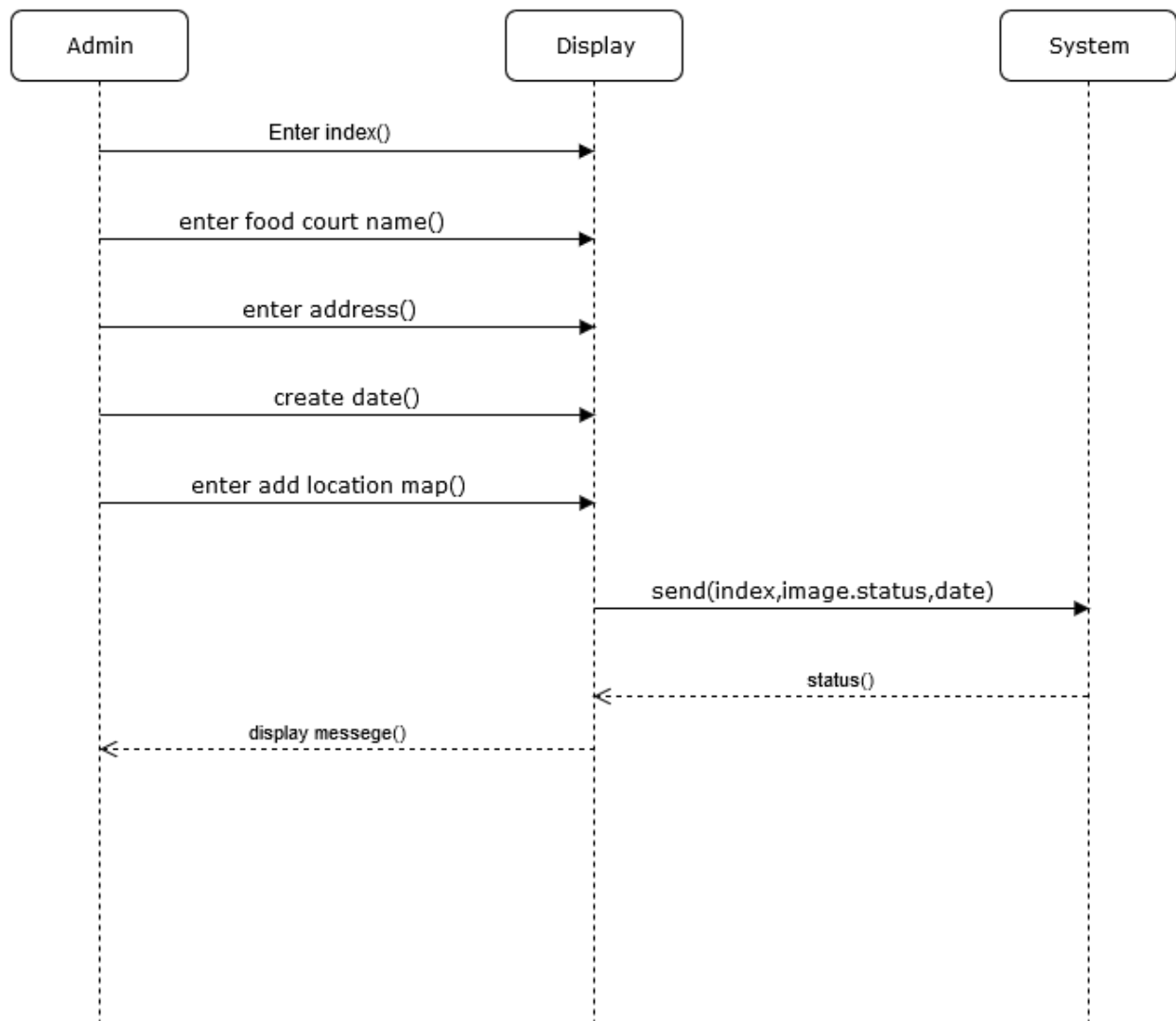


FIGURE: Location Map

3.4.6 Search:

If user wants to know about a specific foodcart's location, then they can use Search button. Then system will display that foodcart's location with google map.

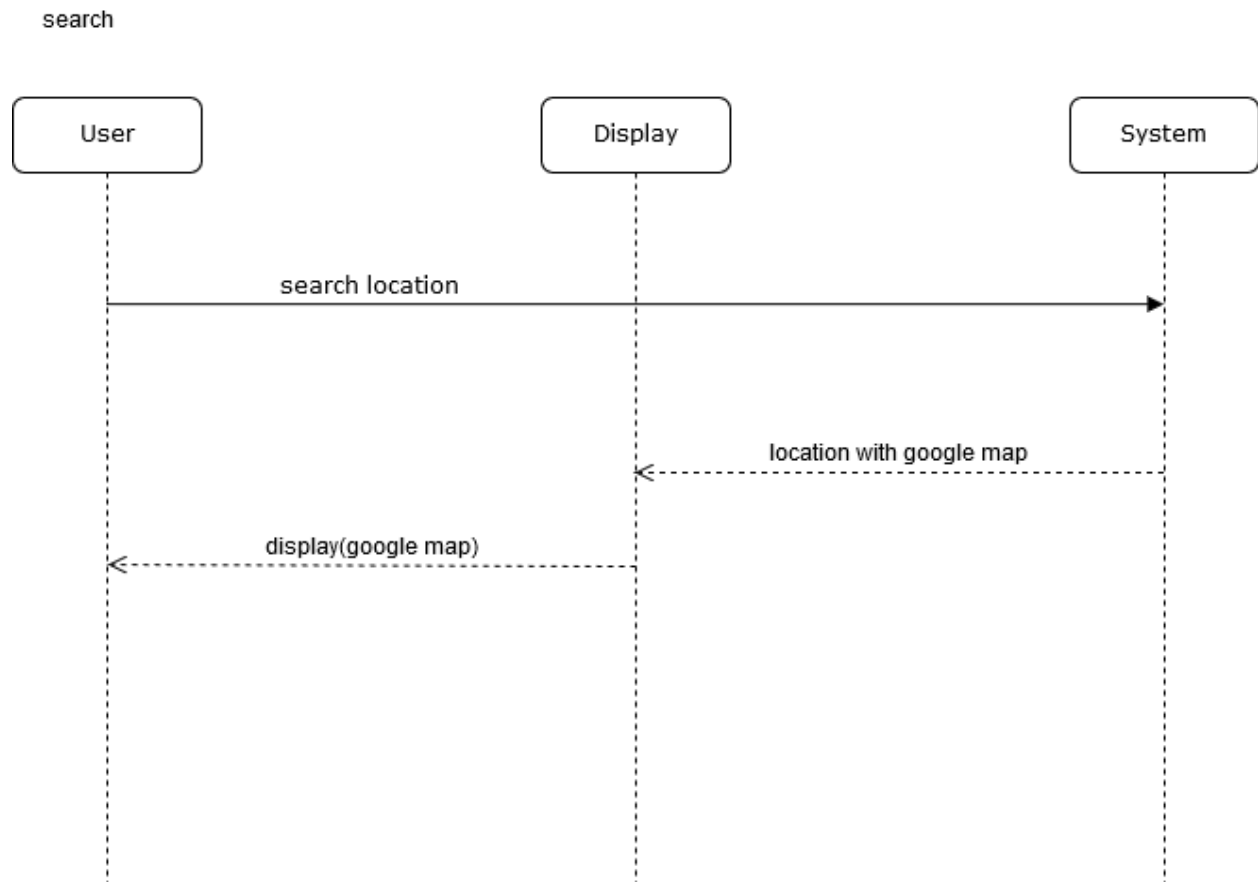


FIGURE: Search

3.4.7 Slider for Admin:

Admin go to slider button and can create a new slide to show by using Image, Location and Add Slider option. Admin have to put data on these required field and submit those data by using Add slider option then system will display it.

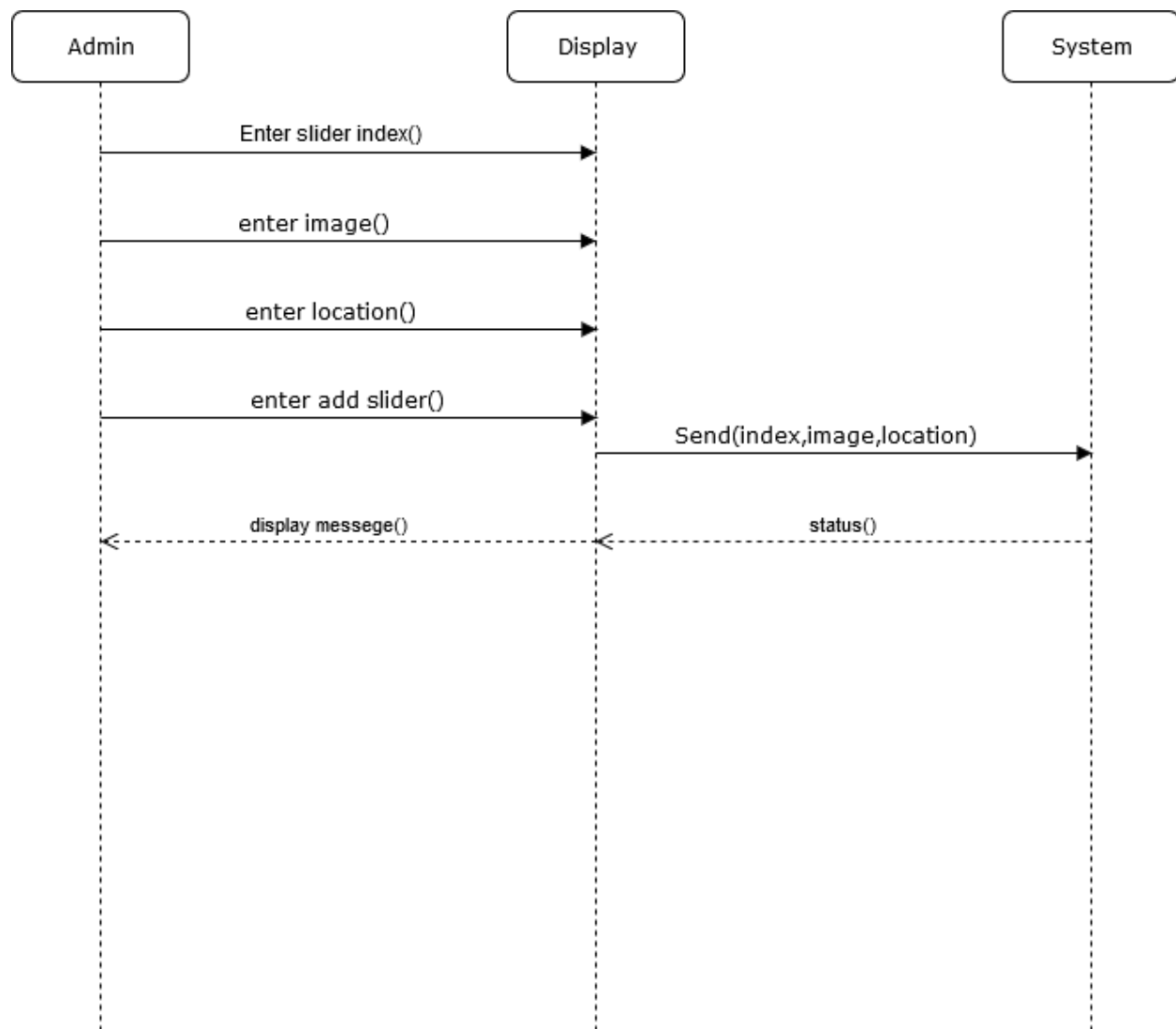


FIGURE: Slider

3.4.8 Streetfood List for User:

System will display to user streetfood list by Streetfood List button. Here user can know about streetfood cart name, review and open or close time also.

Streetfood list

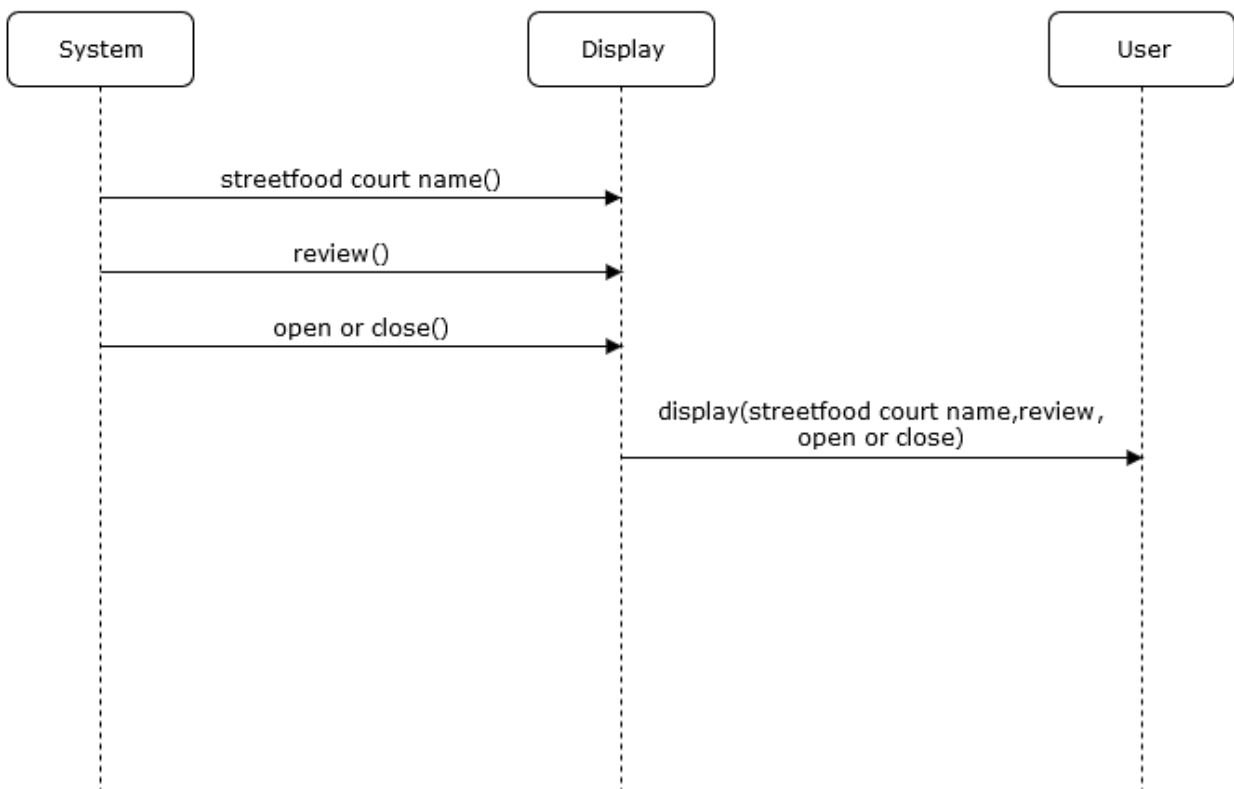


FIGURE: Streetfood List

3.4.9 Streetfood for Admin:

Admin can add new streetfood here. If admin wants to add then he/she have to fill require field. Admin have to put Foodcart Name, Foodcart Image, Menu, Email, Open time and Close time then admin press Add Streetfood button and system will display it.

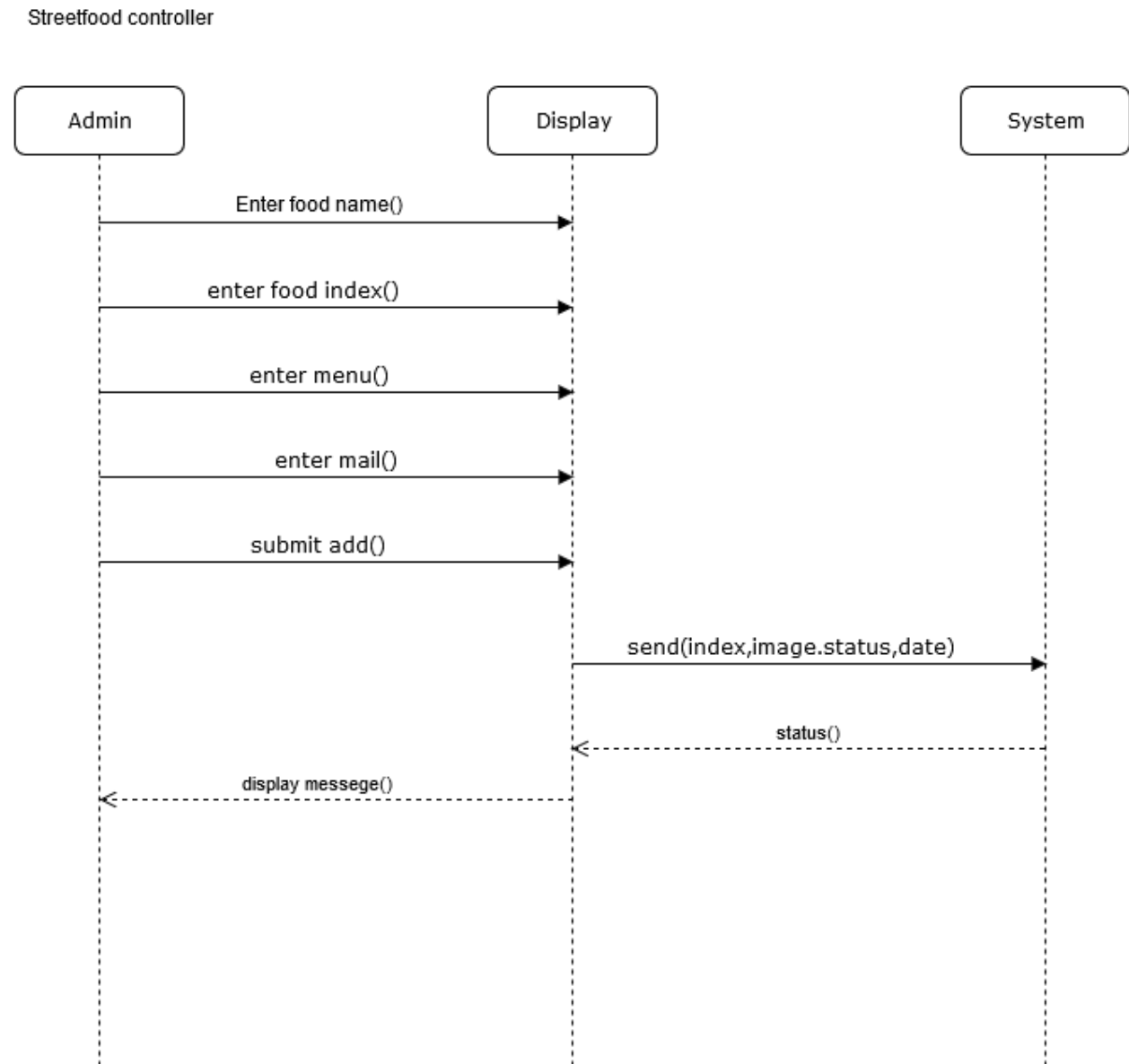


FIGURE: StreetFood List

System Design Specification

4.1 Development tools and technology

Developing software tools are must be needed. There are many different kinds of tools for developing software in different language. The software developer chooses the comfortable tools which they can comfort to work. For my project development in PHP and I use visual studio code.

4.1.1 User interface technology

First of all, after landing any application, interface of that software appears to the user. So, the importance of user interface is very high. For success of any software application, a good-looking user interface plays a vital role. User interface includes using good image, stylesheets, scripting etc.

4.1.1.1 CSS framework or Bootstrap

Bootstrap is a free and open-source responsive front-end CSS framework. It contains HTML, CSS and JavaScript-based design templates for forms, buttons, navigation and other interface components. This CSS framework support every browser like Google Chrome, Safari, Mozilla Firebox etc.

4.1.1.2 Programming language

For developing any application system minimum one programming language is essential. In my application, I used one programming language. Back-end programming PHP. It's an open source language.

4.1.2 Implemented tools and platform

As I have said before, there are some tools and technologies that need to be used for developing software. It is very important to determine which tools and platforms are the best matches for my requirements. After making a proper decision, one needs to start using them.

4.1.2.1 Integrated development environment

In my application developing time used one tools. Visual Studio Code. It's a faster secure and that is provide lots of snippets.

4.3 ENTITY-RELATIONSHIP DIAGRAM:

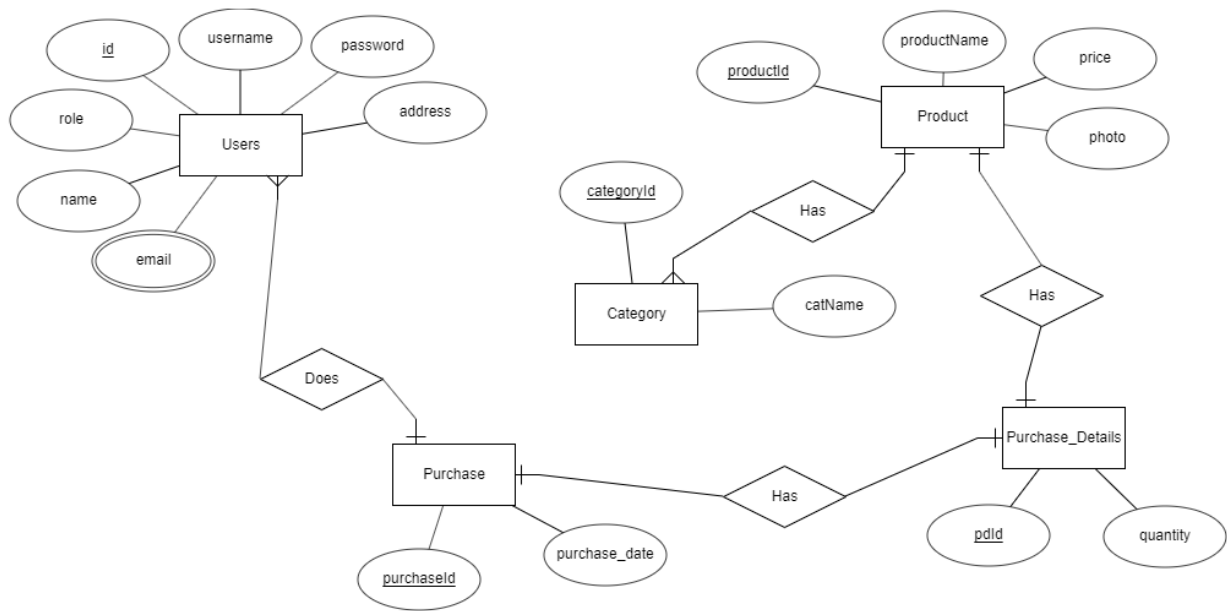


FIGURE: Entity–relationship Diagram

CHAPTER 5

System Test

5.1 Testing Features

Feature testing can be considered as making change to add or modify the new functionality to the existing project. Almost every feature and functionality have different characteristics. Those are designed to make the web application more useful, reliable, effective and secure.

5.1.1 Features to be tested

Features	Priority	Description
Login	1	User must be authenticated by login.
Logout	1	Session must be destroyed after logout.
Create new client	1	Clients information must be save properly.
Delete clients	3	Selected clients information delete properly.
Load database table	1	Load database and generate query properly in time.
Show clients details	3	Show clients details properly.
Show graphical view	3	Graphs show correct report.
Manage paid bill clients	1	Generate is paid query and delete this client and save in paid bill database table.
Manage generate bill for new month accounts	2	Generate bill for the first time in month properly never generate twice in same month.
Manage submit voucher	1	Voucher information save properly.

Here, 1 = Low Priority, 2 = Medium Priority, 3 = High Priority

5.2 Testing Strategies

To simplify the process of testing a software application, team of testers plans a test strategy, which defines the testing approach that will be used to test the software. Different kinds of testing strategies can be performed according to the type of application system that needs to be tested.

5.2.1 Test approach

There are two basic classes of software testing, black-box testing, and white box testing. For now, you just need to understand the very basic difference between the two classes, clarified by the definitions below:

- Black box testing (also called functional testing) is testing that ignores the internal mechanism of a system or component and focuses solely on the outputs generated in response to selected inputs and execution conditions.
- White-box testing (also called structural testing and glass box testing) is testing that takes into account the internal mechanism of a system or component.

5.2.1.1 Black Box Testing

Black Box Testing treats an application as a black box and only looks at the outputs that are produced by specific inputs into the application. The black box tester does not need to understand why the code does what it does, and they should not have access to the source code of the application. Requirements are used to determine the correct outputs of black box testing, and these test cases are used to validate that the right software is being built.

5.2.1.2 Boundary Value Analysis

Boundary value analysis is a name of software testing by which input data can be included within a boundary range. Following this strategy, test engineers firstly define the boundary value. After that, they take a specific boundary and then write the test cases that will be go through the application for testing purposes. After completing those tasks, testers use test cases to test application software.

5.2.1.3 White Box Testing

White Box Testing is defined as the testing of a software solution's internal structure, design, and coding. In this type of testing, the code is visible to the tester. It focuses primarily on verifying the flow of inputs and outputs through the application, improving design and usability, strengthening security. White box testing is also known as Clear Box testing, Open Box testing, Structural testing, Transparent Box testing, Code-Based testing, and Glass Box testing. It is usually performed by developers. Testers can also predict the output of every test case for white box testing. White box testing can be classified into some levels. Such as **Unit Testing**, **Integration Testing**.

5.2.2 Pass / Fail Criteria

Pass or fail criteria will be set by the test engineers. They will prepare the pass / fail criteria on the basis of which input data are worked and which are not works well. Those data that are worked well will considered as pass criteria. And rest of input data will be considered as fail criteria. Now I will give the pass / fail criteria below.

- System crash will not be considered as pass case.
- If any criteria pass 100% times, then it will be considered as pass criteria only.
- If data can't be displayed to the application properly, then it is also to be considered as fail criteria.

5.2.3 Testing Schedule

Test Phase	Time
------------	------

Testing plan create	1 week
Unit testing	During development time
Component test	During development time
Integration testing	1 week
Testing user interfaces	1 week
Load testing	1 week
Performance testing	1 week
Accessibility testing	1 week

5.2.4 Traceability Matrix

Project Manager			Business Analyst Lead	
QA Lead			Target Implementation Date	
BR#	Functionality / Activity	Requirement Description	Test Case Reference	Comments
BR-1	Functional	Log In	Test case 5.4.1	
BR-2	Functional	Add streetfood	Test case 5.4.2	
BR-3	Functional	Add slider	Test case 5.4.3	
BR-4	Functional	Add discount offer image	Test case 5.4.4	
BR-5	Functional	Add Location Map	Test case 5.4.5	
BR-6	Functional	User Review	Test case 5.4.6	

5.3 Testing Environment

Testing environment means to prepare the environment with hardware and software so that test engineers can be able to execute test cases as required. Besides hardware and software usage, network configuration might be needed to execute test plans. Testing environment, some key area needs to setup. Given below:

- Test data
- Web server
- Database server
- Front end running environment
- Back end running environment
- Network
- Browser
- System and application

5.4 Test Cases

A test case refers to some rules and regulations or conditions by which it can be determined whether a system can be able to meet the works or requirements under test cases properly. We know, there is a chance to have some fault or break holes in any application. This is very common scenario. And those issues are solved usually by software testing approaches. But if we don't care of those issues, then the full application development might be ruined. So proper testing must be needed. For testing our application, I have prepared some test cases. Now, I am going to provide them

5.4.1 Log In

8

Test case #1			Test case name: Log In		
System: Food Bot			Subsystem: N/A		
Designed By: Akash Kundu			Designed Date: 08-Oct-2019		
Executed by:			Executed Date:		
Short description: Application will check the authentication and authorization					
Pre-conditions: • Users are always redirected to the login page whether they have not authenticated by our application while entering into the profile.					

Serial	Username	Password	Expected result	Pass/Fail	Comment
1	Admin	123456	These credentials do not match our records.		
2		12345	The username field is required		
3			The username and password field is required		
4	Akash962	12345	User successfully login to the application and redirected to the profile		

Post-conditions: Admin will successfully login to the application.

5.4.2 Add Item

Test case #2		Test case name: Add item		
System: Food Bot		Subsystem: N/A		
Designed By: Akash Kundu		Designed Date: 08-Oct-2019		
Executed by:		Executed Date:		
Short description: Adding new item to the chart				
Pre-conditions: Admin must be authenticated by our application.				
Serial	Action	Response	Pass/Fail	Comment
1	All data is not provided	All field is required		
2	Data provided properly	Added New User		
Post-conditions: After adding new item it will be shown to the menu chart				

5.4.3 Confirm order

Test case #3		Test case name: Add slider		
System: Food Bot		Subsystem: N/A		
Designed By: Akash Kundu		Designed Date: 08-Oct-2019		
Executed by:		Executed Date:		
Short description: Clients can confirm order after adding their food items in to the cart				
Pre-conditions: • User must be authenticated by our application. • User type must be Client.				
Serial	Action	Response	Pass/Fail	Comment
1	All data is not provided	All field is required		
2	Data provided properly	Added New slider image		
Post-conditions: After clicking confirm order admin will get a notification				

5.4.4 Total Sale

Test case #4		Test case name: Total Sale		
System: Food Bot		Subsystem: N/A		
Designed By: Akash Kundu		Designed Date: 08-Oct-2019		
Executed by:		Executed Date:		
Short description: Admin can generate the total sale report				
Pre-conditions: • User must be authenticated by our application. • User type must be admin.				
Serial	Action	Response	Pass/Fail	Comment
1	Discount offer image is not provided	Check publish checker, image field is required		
2	Admin add discount image and publish checker.	New discount offer image.		

CHAPTER 6

USER MANUAL

6.1 Homepage

When a user enters on streetfood finder website, then he/she can see this home page. In this page users are able to see the other user latest reviews. they get here an option of finding new place and can contact and take the services.

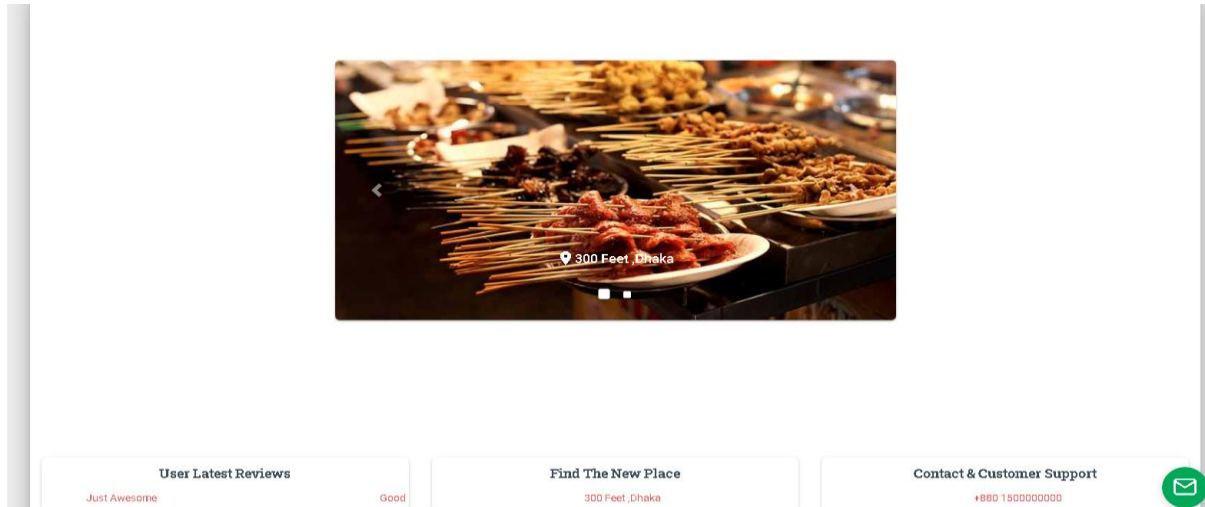


FIGURE: Homepage

6.2 Homepage

This is also a home page, when users click on the website they also can see this page. Here foodcart lists are available. When a user clicks on any foodcart name he/she can see all discounts offers.

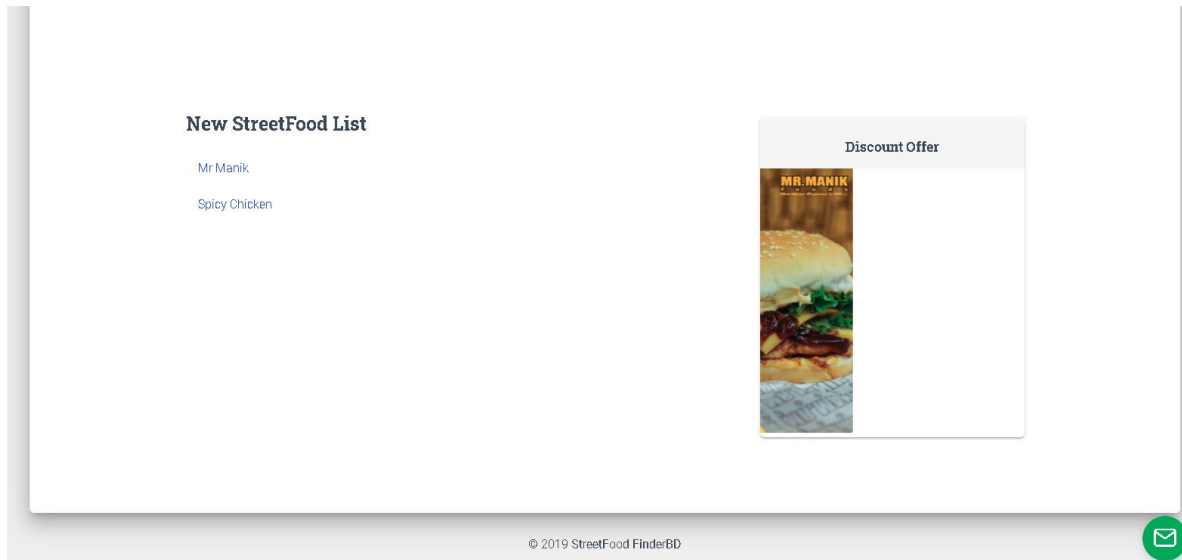


FIGURE: Homepage

6.3 Gallery

This is the gallery page. Where users can see the foods pictures. They also can see the reviews time session. When they click on this picture, they able to see the reviews.

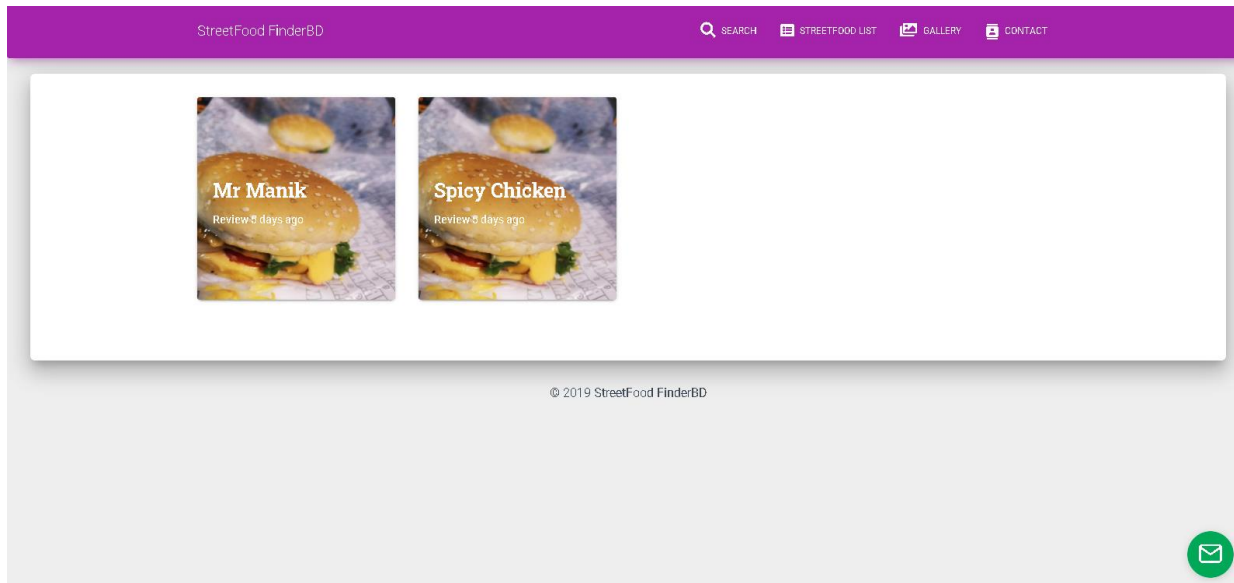


FIGURE: Gallery

6.4 Contact

Here showing that, one user can contact with the admin. When a user clicks on the contact option, he can easily contact with the admin by providing some information like his name and address. In this picture we see that admin's e-mail and mobile numbers are also available.

StreetFood FinderBD

SEARCH STREETFOOD LIST GALLERY CONTACT

Contact Us

Your Name

Email Address

Your Message

SEND MESSAGE

Mobile:
+880 1600000000

Email:
fami.onjon@gmail.com

Address:
Mirpur, Dhaka 1230

Offline
Please fill out the form below and we will get back to you as soon as possible.

* Name

* Email

* Message

Submit

We're by tawit.to

© 2019 StreetFood FinderBD

FIGURE: Contact

6.5 Live Chat

The page is showing how a user can do a live chat with the admin. When user click on the contact option this page is opened. When admin is in online then user and can do a live chat without providing any information.

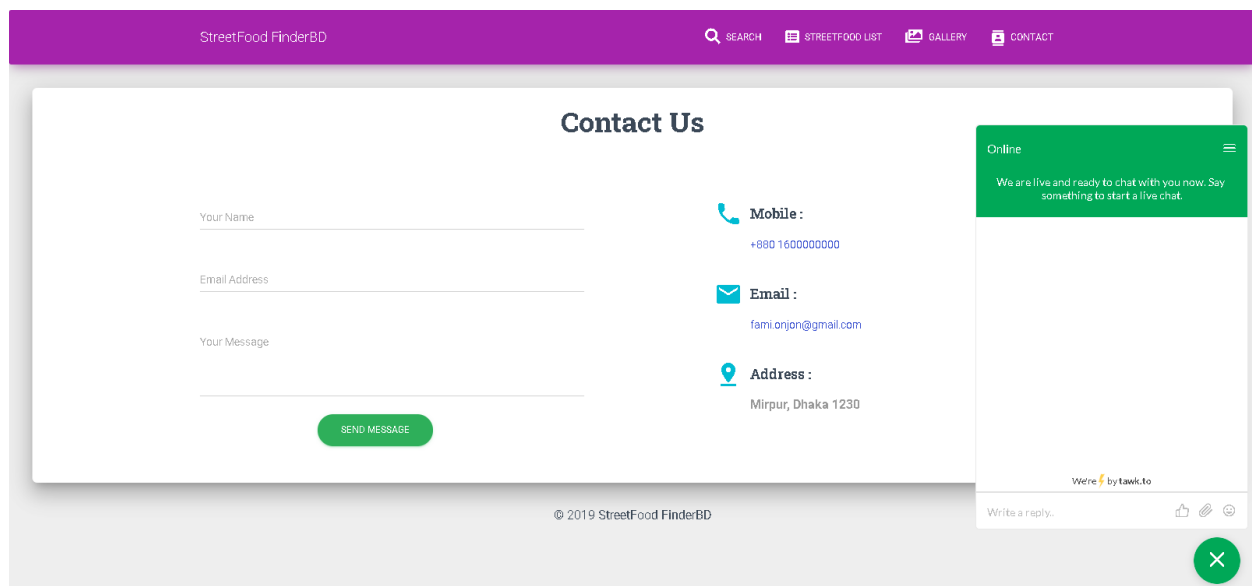


FIGURE: Live Chat

6.6 Search

Here showing that, when a user clicks on the search option he can see a search bar. When he searching for the location in the map, the location indicates with geo tagging on the map.

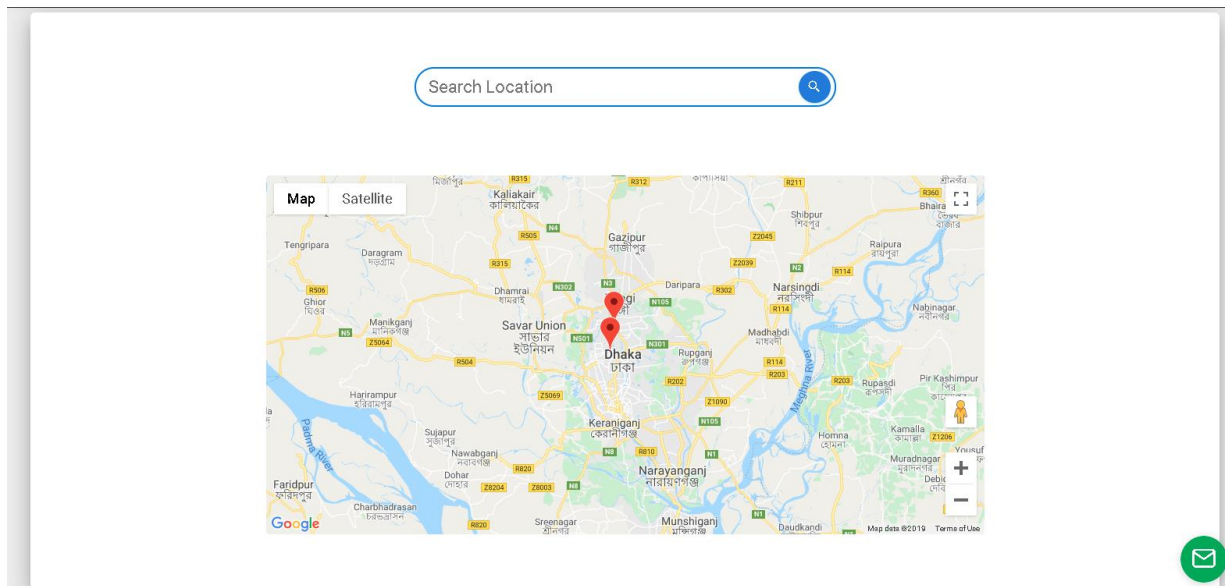


FIGURE: Search

6.7 StreetFood List

This picture showing that, when a user clicks on streetfood list option from the homepage, then this page is open. Here one user overviews the foodcart reviews, the addresses, and available time.

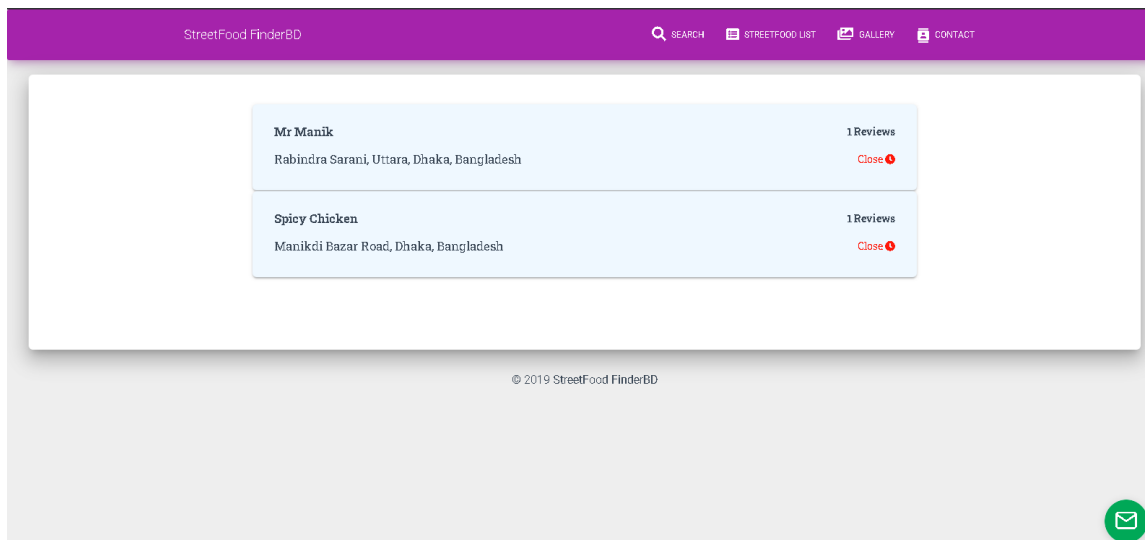
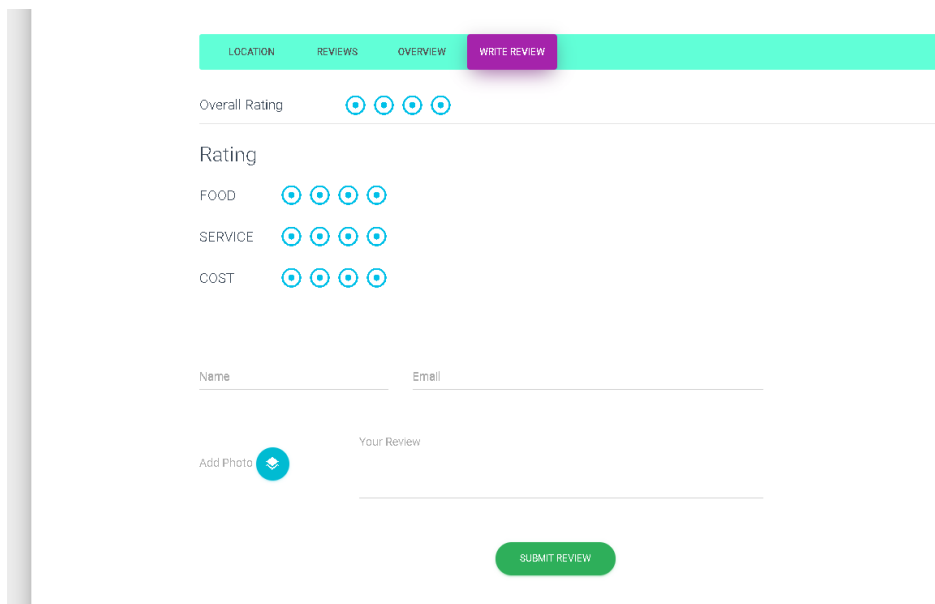


FIGURE: StreetFood List

6.8 Write Review

This picture is showing write review, given by the users. Only can write the review comments and admin just can see this review. User first clicking on overall rating, then randomly click on food, Service, cost to give rating. User also can give this rating by giving their name, mail, food photo and a review comments. After complete all of this information clicked on submit the review user can give rating.



The screenshot displays a web form for writing a review. At the top, a navigation bar contains four tabs: 'LOCATION', 'REVIEWS', 'OVERVIEW', and 'WRITE REVIEW', with the latter being the active tab. Below the tabs, the form is organized into several sections. The 'Overall Rating' section features five circular rating buttons. The 'Rating' section includes three categories: 'FOOD', 'SERVICE', and 'COST', each with five circular rating buttons. Below these, there are input fields for 'Name' and 'Email'. A section for 'Add Photo' includes a camera icon and a text input field. The 'Your Review' section contains a large text area for comments. At the bottom, a green 'SUBMIT REVIEW' button is centered.

FIGURE: Write Review

6.9 Admin Log In

This is the log in page. When admin wants to enter in the web site. He has to log in with a password and email. After giving the password and email clicking on sign in option admin can enter in the page.

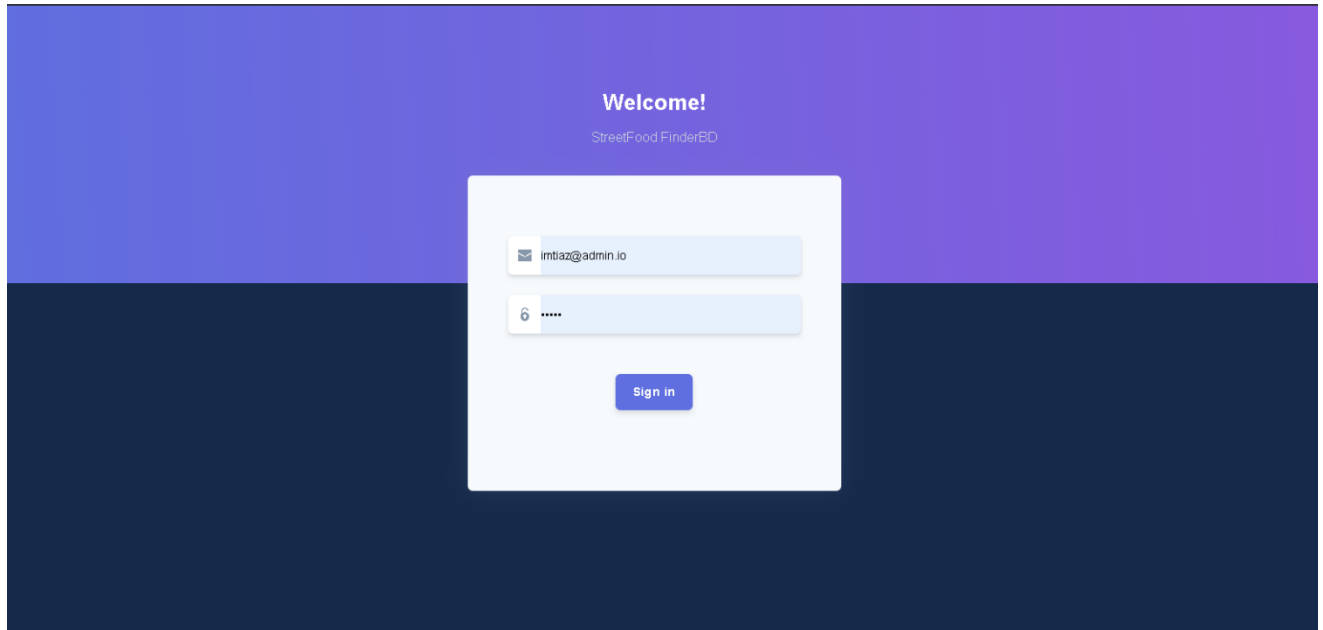


FIGURE: Log in(Admin)

6.10 Dashboard/Admin Panel

This is the dashboard page. When admin click on the dashboard option he/she can over view everything. As how many slider, how many discounts offers, how many reviews, how many streetfood are currently available. This is also showing a chart of monthly review.

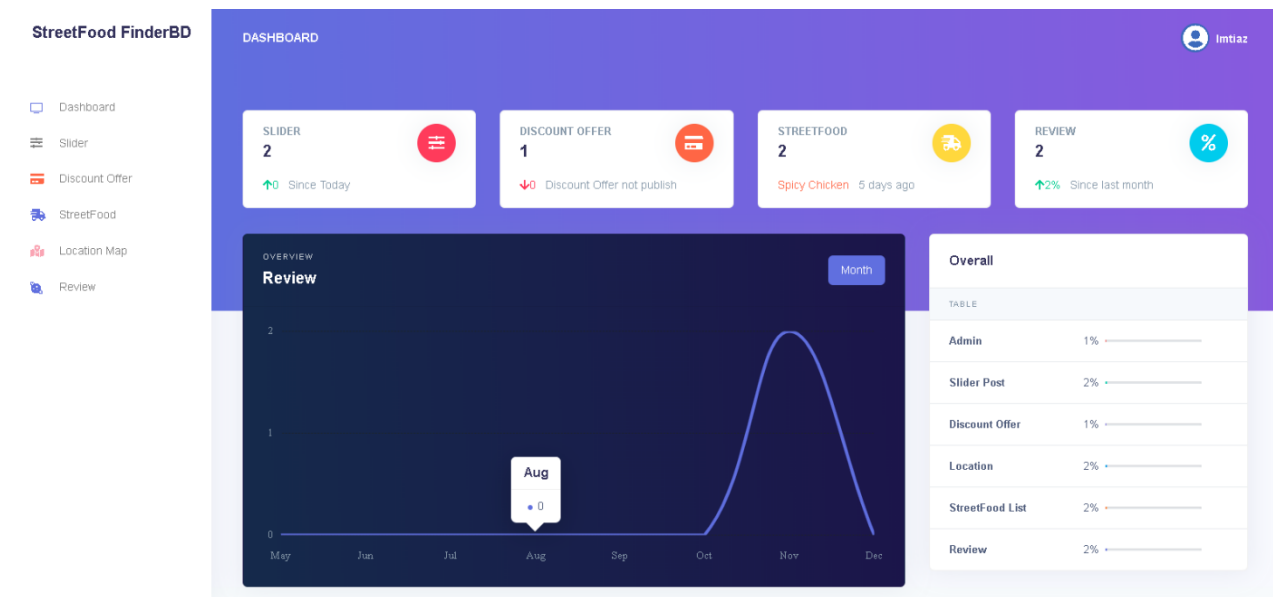
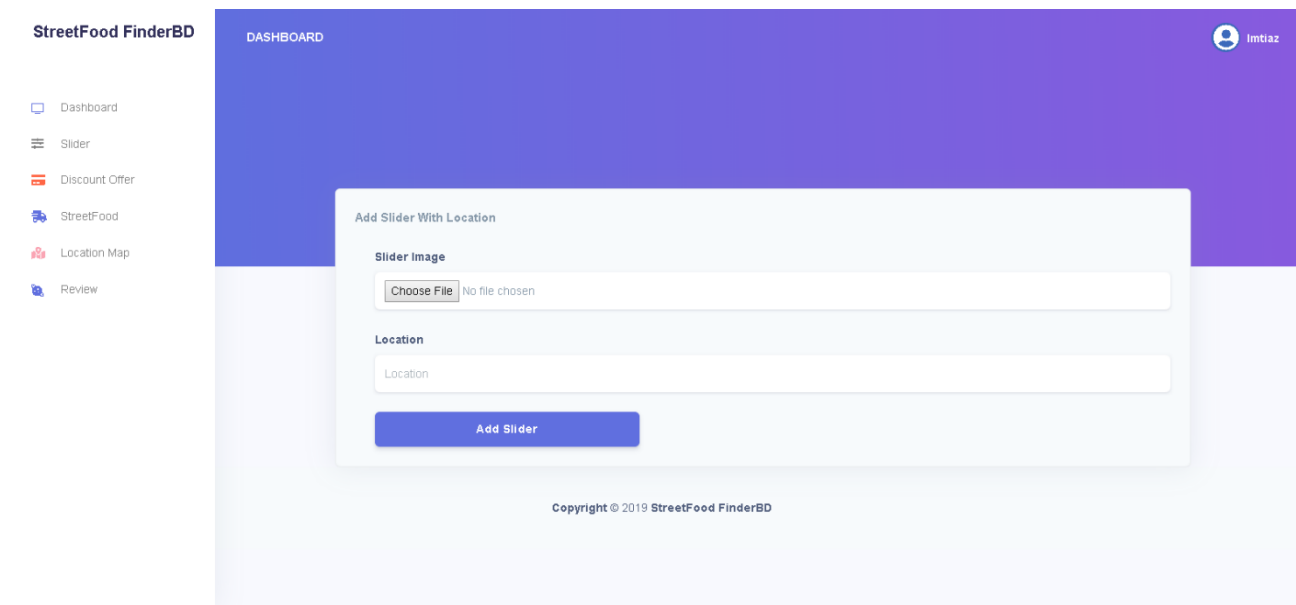


FIGURE: Dashboard

6.11 Add Slider

This is a page where admin can add a slide. When admin click on the slide option. This page is opened. Then in the slider image option admin choose a new slide, then clicking on the add slide option he can add a new slide.

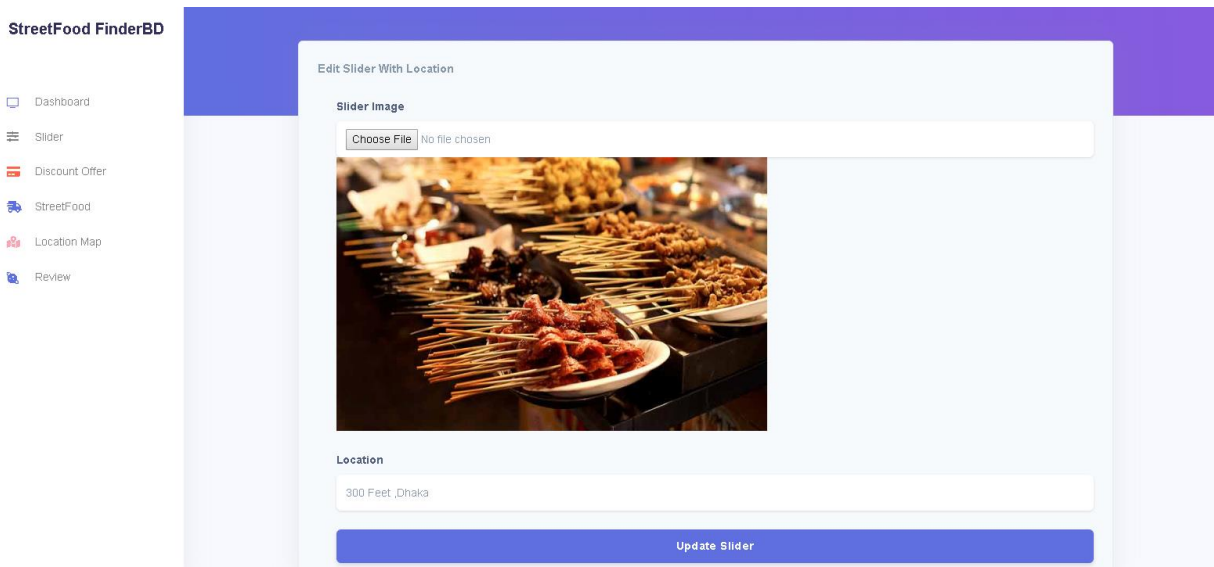


The screenshot shows the 'StreetFood FinderBD' dashboard with a sidebar menu on the left containing 'Dashboard', 'Slider', 'Discount Offer', 'StreetFood', 'Location Map', and 'Review'. The main content area has a purple header with 'DASHBOARD' and a user profile 'Imtiaz'. A modal form titled 'Add Slider With Location' is centered. It contains a 'Slider Image' section with a 'Choose File' button and 'No file chosen' text, and a 'Location' section with a text input field. A blue 'Add Slider' button is at the bottom of the form. The footer of the modal says 'Copyright © 2019 StreetFood FinderBD'.

FIGURE: Add Slider

6.12 Edit Slider Image

This is a page where admin can edit the slide. When admin click on the slide option this page is opened. Then the admin clicks on the slider image, choose a new slide then clicking on update slider option admin can edit the slide.



The screenshot shows the 'Edit Slider With Location' form within the 'StreetFood FinderBD' admin dashboard. The dashboard's left sidebar contains a menu with the following items: Dashboard, Slider, Discount Offer, StreetFood, Location Map, and Review. The main content area of the form is titled 'Edit Slider With Location' and includes a 'Slider Image' section with a 'Choose File' button and a 'No file chosen' status. Below this is a preview of a food image showing skewers of meat and vegetables. The 'Location' section features a text input field containing '300 Feet ,Dhaka'. At the bottom of the form is a blue 'Update Slider' button.

FIGURE: Edit Slider

6.13 Delete Slider Image

This is a page where admin can delete a slide. In this picture we can see that there is a cut off option available. When admin click on that cross symbol, the page would be deleted by the admin.

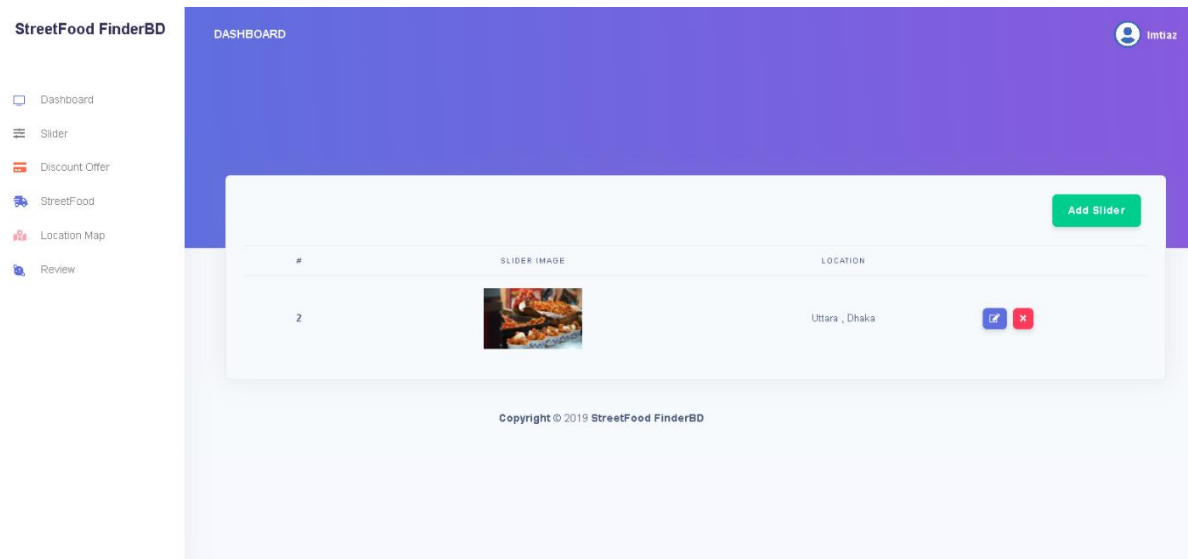
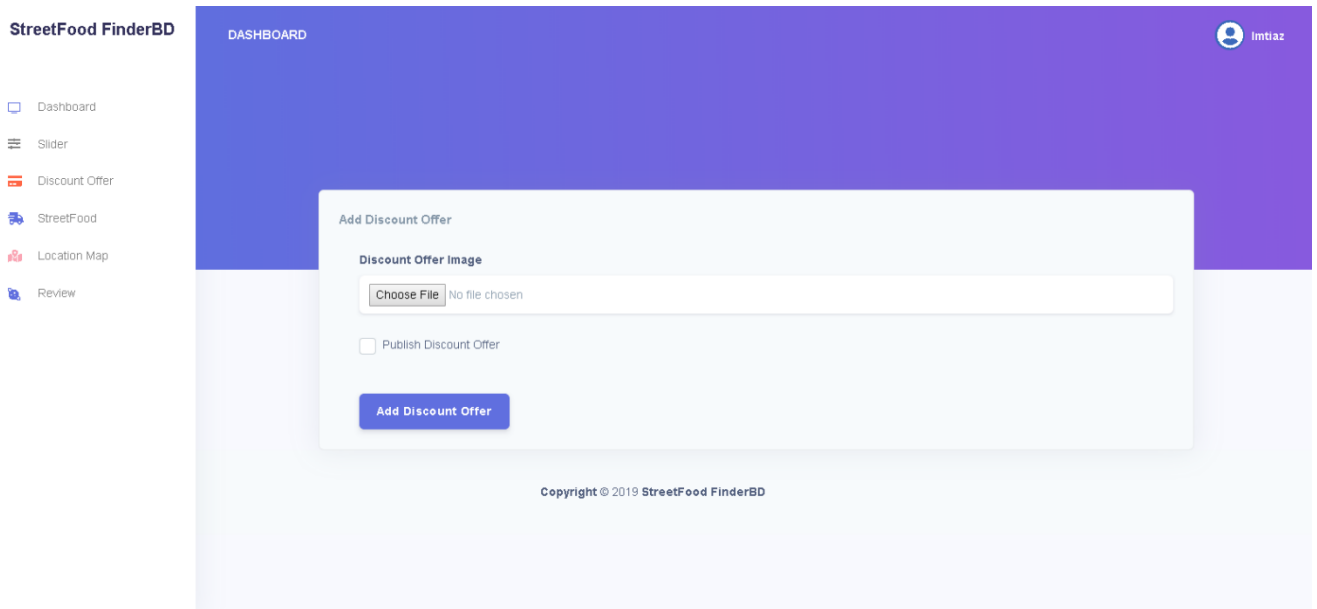


FIGURE: Delete Slider

6.14 Add Discount Offer

This is a page where admin can add a discount offer. When admin click the discount offer option this page is opened. So, in this page when admin click on the choose file option, then he can choose a file with publish status and after that clicking add discount offer option admin can add a discount offer.



The screenshot shows the 'Add Discount Offer' form within the 'StreetFood FinderBD' dashboard. The dashboard has a purple header with 'DASHBOARD' and a user profile 'Imtiaz'. A sidebar on the left lists navigation options: Dashboard, Slider, Discount Offer, StreetFood, Location Map, and Review. The 'Add Discount Offer' form is a white modal box with the following elements:

- Add Discount Offer** (Form Title)
- Discount Offer Image** (Section Header)
- Choose File** (File Selection Button) with the text 'No file chosen' next to it.
- ☐ **Publish Discount Offer** (Checkbox)
- Add Discount Offer** (Submit Button)

At the bottom of the dashboard, there is a copyright notice: 'Copyright © 2019 StreetFood FinderBD'.

FIGURE: Add Discount Offer

6.15 Publish Discount Offer

This is discount published page. Where admin can see the published offer by clicking on the discount offer. Here, the published date is also available.

The screenshot displays the 'StreetFood FinderBD' dashboard. On the left is a sidebar menu with options: Dashboard, Slider, Discount Offer, StreetFood, Location Map, and Review. The main content area has a purple header with 'DASHBOARD' and a user profile 'Intiaz'. Below the header is a white box containing a table of discount offers. The table has columns for '#', 'DISCOUNT OFFER IMAGE', 'PUBLISH STATUS', and 'CREATED AT'. One offer is listed with ID '1', an image of a food stall, a 'PUBLISH' status, and a creation date of 'Nov 20 2019'. To the right of the table is a green 'Add Discount Offer' button. At the bottom of the white box is a copyright notice: 'Copyright © 2019 StreetFood FinderBD'.

#	DISCOUNT OFFER IMAGE	PUBLISH STATUS	CREATED AT
1		PUBLISH	Nov 20 2019

FIGURE: Publish Discount Offer

6.16 Delete Discount Offer

Here is showing how admin can delete the discount offer. When admin click on the discount offer this page is opened. Where admin can delete the offer by clicking the red cross options.

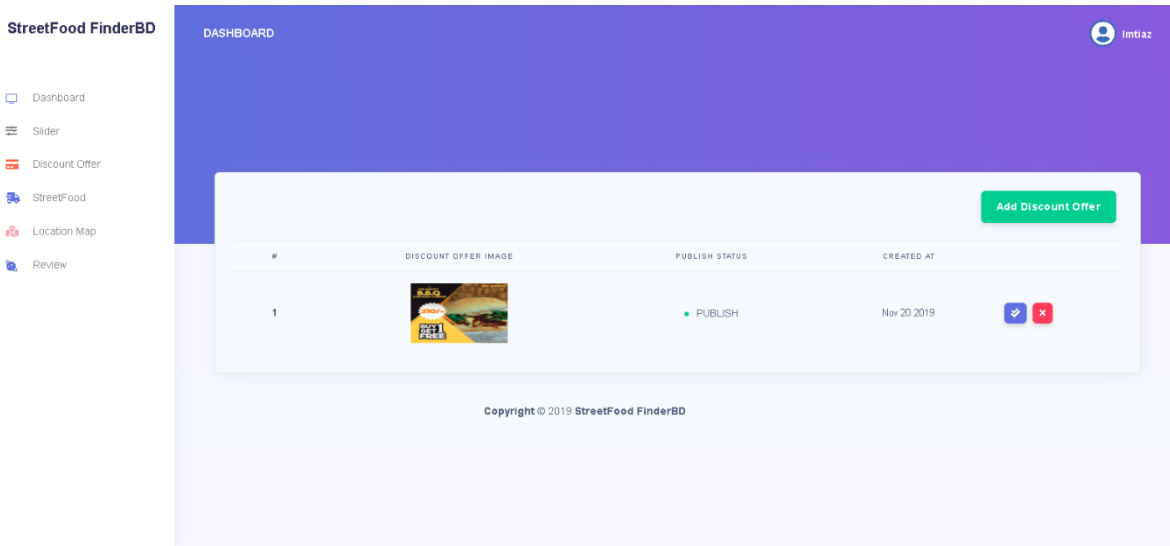


FIGURE: Delete Discount Offer

6.17 User Review Overview

This page is showing the users review. When user click on the review option then he can give a review and admin can see all the review. And users also rating the food, Service, cost, overall rating and at last give a review comment by their name for a specific foodcart and only user can do this.

StreetFood FinderBD

Dashboard

Slider

Discount Offer

StreetFood

Location Map

Review

DASHBOARD

imtia2

User All Review

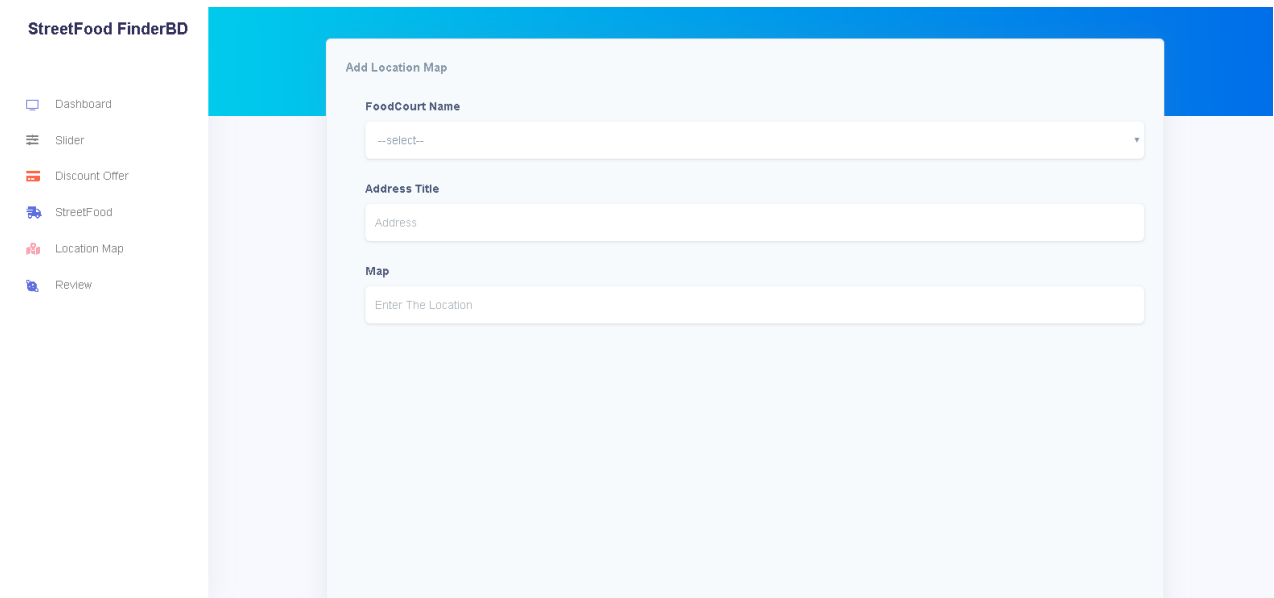
#	FOODCOURT NAME	OVERALL RATING	FOOD	SERVICE	COST	NAME	IMAGE	REVIEW
1	Mr Manik	4	4	4	4	Arif		Just Awesome
2	Spicy Chicken	3	3	4	3	Nazim		Good

Copyright © 2019 StreetFood FinderBD

FIGURE: User Review Overview

6.18 Add Location Map

Page is showing how to add location. When admin click on the location map app this page is showed. Then there is some option like foodcart name, address and map. Admin fill up all of this information clicking on those option provided by the foodcart owner and can add a location.



The screenshot displays the 'Add Location Map' form within the 'StreetFood FinderBD' application. The form is located on the right side of the screen, with a sidebar on the left containing navigation links: Dashboard, Slider, Discount Offer, StreetFood, Location Map (highlighted), and Review. The form itself has a light blue header with the title 'Add Location Map'. Below the header, there are three main input sections: 'FoodCourt Name' with a dropdown menu showing '--select--', 'Address Title' with a text input field containing 'Address', and 'Map' with a text input field containing 'Enter The Location'.

FIGURE: Add Location

6.19 Edit Location Map

This page is showing how to edit a location from the map. When admin click location map this page is showed with some information. There some option like foodcart name, address title, map. If owner want to change his current information, then the owner edits it from the location map'

StreetFood FinderBD

- Dashboard
- Slider
- Discount Offer
- StreetFood
- Location Map
- Review

Edit Slider With Location

FoodCourt Name

Mr Manik

Address Title

Rabindra Sarani, Uttara, Dhaka, Bangladesh

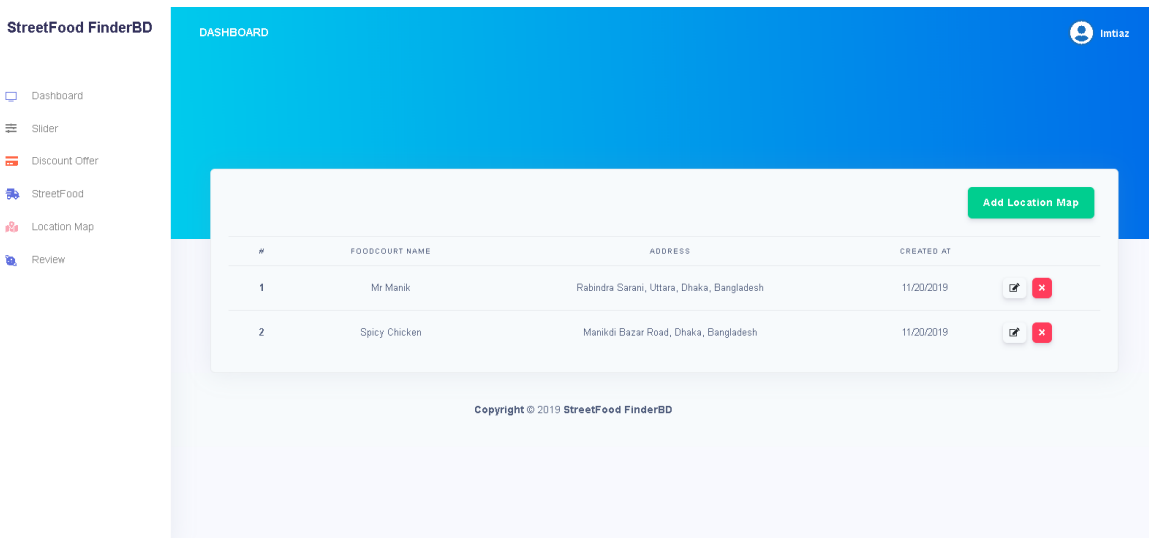
Map

Enter The Location

FIGURE: Edit Location

6.20 Delete Location Map

This page is showing how to delete the location. The admin opens this page by clicking on the location option. If owner want to delete his foodcart location, then admin can delete the location by clicking on the red cross option.



StreetFood FinderBD

DASHBOARD

Imtiaz

Dashboard

Slider

Discount Offer

StreetFood

Location Map

Review

Add Location Map

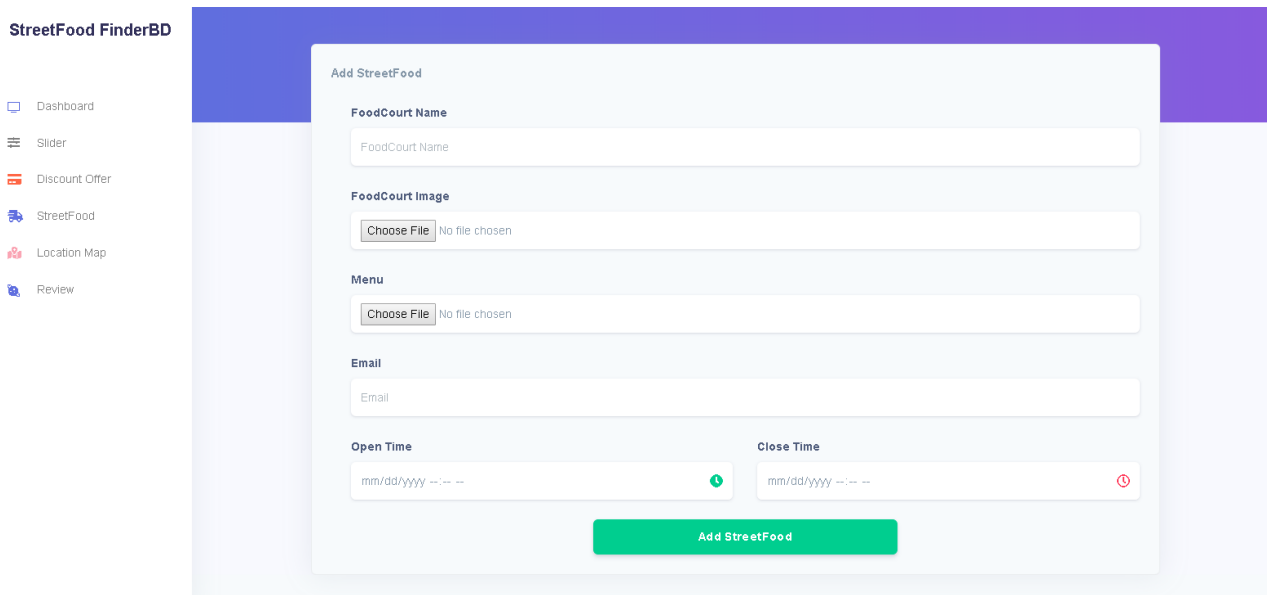
#	FOODCOURT NAME	ADDRESS	CREATED AT	
1	Mr Manik	Rabindra Sarani, Uttara, Dhaka, Bangladesh	11/20/2019	 
2	Spicy Chicken	Manikdi Bazar Road, Dhaka, Bangladesh	11/20/2019	 

Copyright © 2019 StreetFood FinderBD

FIGURE: Delete Location

6.21 Add StreetFood

This page is showing how to add streetfood cart information. When admin click on the streetfood app, then this blank page is opened with some option like food cart name, food image, menu, email, open time and close time. Admin can add all of this information by clicking on those option.



The screenshot displays the 'Add StreetFood' form within the 'StreetFood FinderBD' application. The form is titled 'Add StreetFood' and contains several input fields and a submit button. On the left side of the application, there is a sidebar menu with the following items: Dashboard, Slider, Discount Offer, StreetFood, Location Map, and Review. The form fields are as follows:

- FoodCourt Name:** A text input field with the placeholder text 'FoodCourt Name'.
- FoodCourt Image:** A file upload field with a 'Choose File' button and the text 'No file chosen'.
- Menu:** A file upload field with a 'Choose File' button and the text 'No file chosen'.
- Email:** A text input field with the placeholder text 'Email'.
- Open Time:** A date and time picker field with the placeholder text 'mm/dd/yyyy --:-- --' and a green clock icon.
- Close Time:** A date and time picker field with the placeholder text 'mm/dd/yyyy --:-- --' and a red clock icon.

At the bottom of the form, there is a green button labeled 'Add StreetFood'.

FIGURE: Add StreetFood

6.22 Edit StreetFood

This page is showing how to edit streetfood court name and food image. If owner want to change the food court name and image, then according to owner, admin click on the streetfood option and open this page. In this page there are options like foodcart name and image. Clicking on those option admin edits name and image.

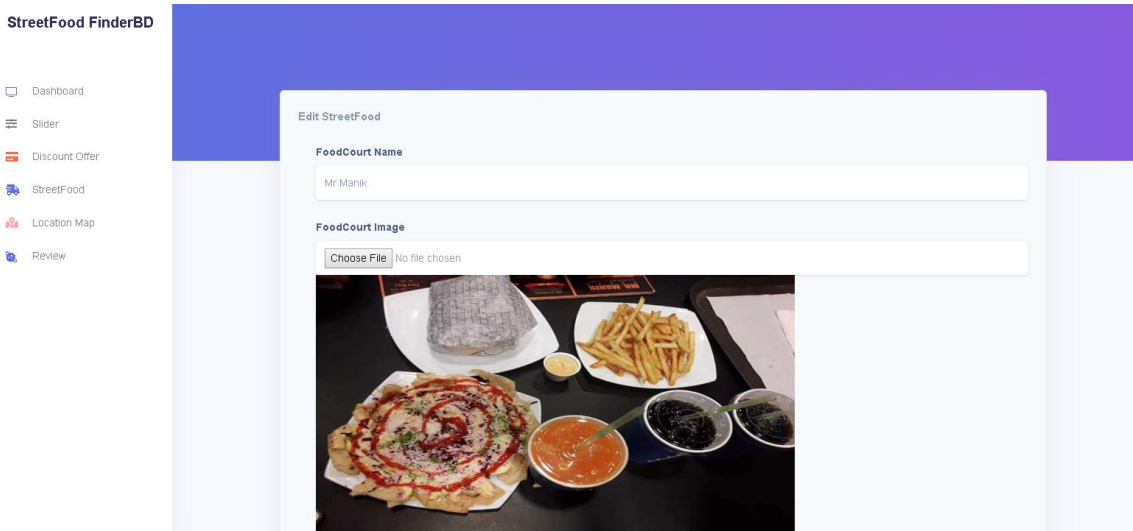


FIGURE: Edit StreetFood

6.23 Edit StreetFood

This page is also showing the editing the streetfood menu, email, open time and close time which is viewing in this picture. Admin click on streetfood app then this page opened. And admin edit all of this information by clicking on those option.

StreetFood FinderBD

- Dashboard
- Slider
- Discount Offer
- StreetFood
- Location Map
- Review

Menu

Choose File No file chosen



Email

14mdakib53@gmail.com

Open Time

01/04/2019 04:00 PM

Close Time

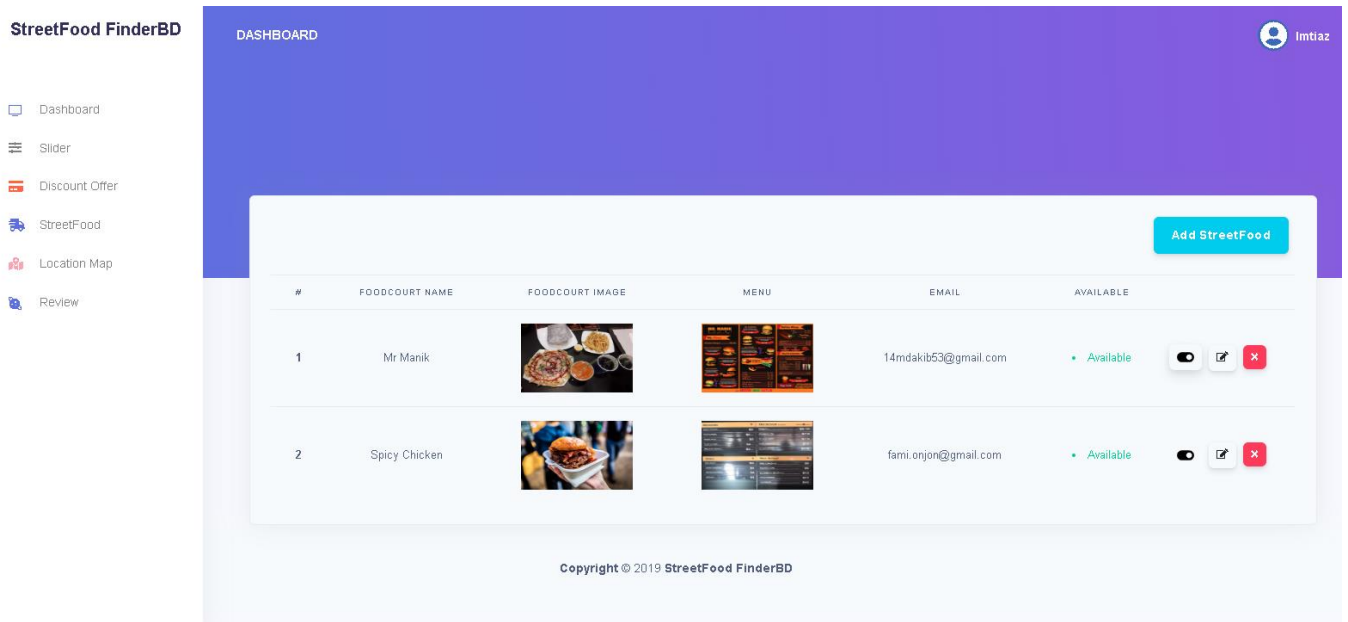
01/06/2019 05:00 AM

Update StreetFood

FIGURE: Edit StreetFood

6.24 Delete StreetFood

This page is show how to delete the streetfood cart. When admin click on the option streetfood option then this page is opened. From this page admin see food cartname, their email, close time, open time. If any food court need to be deleted for owner, then admin can delete the by clicking on the red cross option.



The screenshot displays the 'StreetFood FinderBD' dashboard. On the left is a sidebar with navigation links: Dashboard, Slider, Discount Offer, StreetFood, Location Map, and Review. The main content area is titled 'DASHBOARD' and features a table of food court entries. A blue 'Add StreetFood' button is in the top right corner. The table has columns for ID, Foodcourt Name, Foodcourt Image, Menu, Email, and Available status. Two entries are visible: 'Mr Manik' and 'Spicy Chicken'. Each entry has a toggle switch for availability, an edit icon, and a red delete icon (a cross in a circle). The footer of the dashboard area reads 'Copyright © 2019 StreetFood FinderBD'.

#	FOODCOURT NAME	FOODCOURT IMAGE	MENU	EMAIL	AVAILABLE
1	Mr Manik			14mdakib53@gmail.com	Available   
2	Spicy Chicken			fami.onjon@gmail.com	Available   

FIGURE: Delete StreetFood

CHAPTER 7

CONCLUSION

7.1 Project Summary

My project name is Food Bot. This is a web application version project. In this project when user enter this website through URL that means in every table of the restaurant there have a Sharing IP URL. Then the user have to open his open and input the URL in a web browser. After that he/she can view the home page of that restaurant. At the same time client will find the order menu. Here he can select the food and quantity and submit his order .After submitting his order admin will get a notification that there have a new order. Then admin can view the customer details and confirm the order. Admin also view the daily sale and total sale of a month.

7.2 Limitations

In my project there is some limitations. That is:

1. I cannot add another role like restaurant manager.
2. Online bill payment is not available.
3. Main limitation is this is not an app version project, this is a website project.

7.3 Obstacles and Achievements

I believe that if there are not any obstacles to develop a project, then there doesn't have any challenges. Because we know, challenge give us the opportunity to prove ourselves. Obstacles, challenges and achievements are like a path to the success. When I start this project, I have also felt some obstacles.in my project, I am using IP sharing base food order. When I add this, I got some problem to set exact location. I got some problems in data collection. I got some problem in contact system. First, I was unable to add the live chat option. But I overcome from all of this problem and now my project successfully run. All the systems work perfectly. User feel so easy to use this website and this is the biggest achievement for myself.

7.4 FUTURE SCOPE:

I have learnt a lot throughout the whole development stage of this project. In future I am sure going to develop on some specific things. As I am going to be convert this into an app version from the current stage. I am also going to add QR Code base order as well as online payment option will also be available. By this user are going to be more satisfied and will use this one happily and easily.

7.5 REFERNCE:

- 1) PHP tutorial Available at <https://www.youtube.com/watch?v=sEq6riJ0Do8&list=PL4cUxeGkcC9gksOX3Kd9KPo-O68ncT05o&index=12>Stack overflow, Available at <<https://stackoverflow.com/>>;
- 2) Visual Studio Code, Available at &https://code.visualstudio.com/download;
- 3) Creative-Tim, Available at & lt ;<https://www.creative-tim.com/>>;
- 4) XAMPP Available at & <https://www.apachefriends.org/download.html>