“STREETFOOD FINDER BD” is a Smart Web Application for Food Lover to find street food cart.

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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

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APPROVAL

This **Project/Thesis** titled "**StreetFood Finder Bd**", submitted by **Imtiaz Ahmad**, **ID:161-35-1477** 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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DECLARATION

It hereby declere that this thesis has been done by me under the supervission of Mohammad Khaled Sohel, Assistant Professor, Department of Software Engineering, Daffodil International University. It also declere that nithor this thesis nor any part of this has been submitted elesewhere for award of any degree.

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ABSTRACT

"StreetFood Finder BD" is a smart web based application for food lover to give review and check location. It will assist in managing for helpline service and support. There is a big number of streetfood placing in our country. This application will create opportunity to keep all the streetfood and food lover closer. This web application will save time, user can post a review easily at home. This web application is very easy to find streefood cart. We used Laravel (PHP framework), HTML, CSS, and Bootstrap for this website. We also used Client side scripting language: JavaScript to make it more user friendly.

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CHAPTER 1
INTRODUCTION

1.1 Project Overview:

"Street food finder" is a web app project. Here users can get a benefit to find out their favorite foods and restaurants. It's a very popular medium for finding food to any food lovers. In this project, admin can login with registration. Admin can look out all the things happening in this app. Admin can control every single thing. Admin can update any data. In this project, users can find out the location of the food cart easily, because location system is available here with a Google map.so it's very easy to find out the exact location and that's the best thing. Users here also can see slide images of food, they can see offers on food. So, users can easily select that which type of food of which food cart, they want actually. User also can give a rating here with an image. When users give a rating, owner get a mail. Admin cannot give any rating, only users can. Here, users and owner can do live chat. Contact system is also available here, if any problem occurs, they can easily contact with the admin.

1.2 Project Purpose:

"Street Food Finder" 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.

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1.2.1 Background:

When we go to an established restaurant, it costs us a lot. But if we go to a cart we can have cheap foods, but it tastes almost same as those restaurants. They also provide variety of food which resembles our tradition & culture. But most of them are deprived as they don't have enough promotion. So, we want to provide a platform to every street food vendors and food lovers so that food lovers can get the best food & can provide their valuable opinion about a vendor. On the other hand, it will be a great opportunity for the food vendors to promote & spread their business through their effort and customer satisfaction.

1.2.2 Benefits:

- Providing food vendors to promote themselves
- Users can find their desired dish
- Users can find nearby carts of him
- Users can get an idea about a cart before visiting the cart
- Reviews & Rating will help to promote a new business
- New vendors can be discovered easily

1.2.3 Beneficiaries:

- Food lovers
- Food Vendors

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1.2.4 Goal:

- To provide a same level field for both established and promising food
- To provide a same level field for both established and promising food vendors.
- To promote street food
- To promote new dishes
- To help the people to taste new food
- To save people's money cause street food vendors provide almost same quality food as established costly restaurants.
- To help people finding a specific cart (using map)
- To know people previous experience of visitors
- To discover best cheap food vendors around the Dhaka city
- To make street food market more competitive

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, owner, and user. Below discuss about of stakeholders:

1.3.1 Admin:

Admin control this website. Admin can add a food slides with image, admin can set a discount offer on food with image. Admin can add street food cart names here with the location. Admin also can update all the information, he can edit or delete the information. He can overview all the things with rating in the dashboard.

1.3.2 Owner:

Owner need to provide his food curt name with the location. If he wants to give a discount offer on any food, he has to be informed to the admin. If owner face any problem, he can easily contact with the admin.

1.3.3 User:

User can easily search the food cart name, they also can find the location when they are searching. They can easily contact with the owner. User can give rating without login. They can view all the things like offer, location and food cart name. They also can comment and can chat live with the admin.

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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.

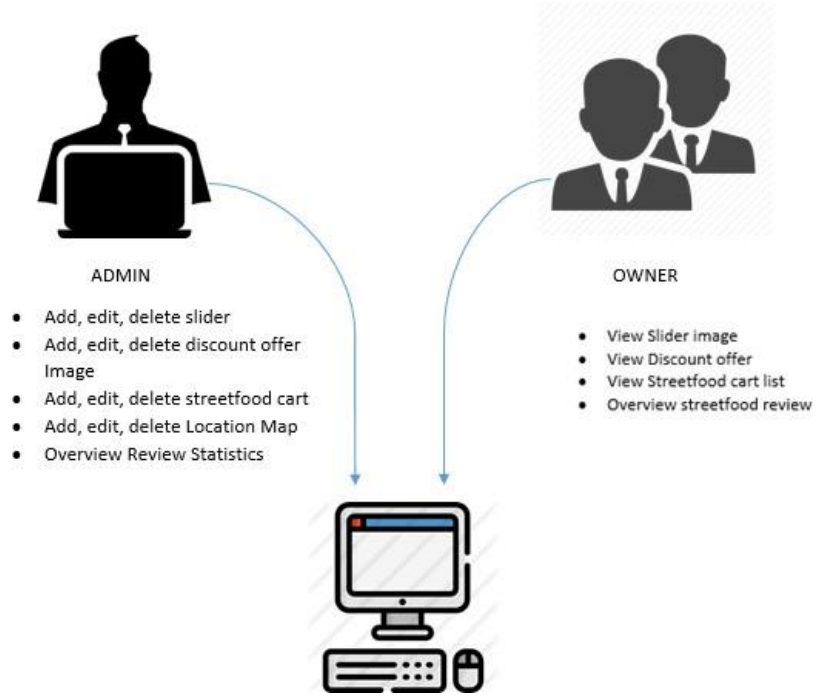

FIGURE: PROPOSED SYSTEM MODEL

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.

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Activities		W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16
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																
	Blackbox testing																
Delivery	Software release																
Scheduled time																	
Buffered time																	

FIGURE: Gantt Chart

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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

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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 user can view the latest users' reviews:

Requirements 1	User can view latest users review
Description	One user can view the other users rating view about the food and food cart. All users are able to see all the review of each other.
stakeholders	Owner and user
Priority	Low

2.1.2 FR 2 Users can view the discount offer:

Requirements 2	Users can view the discount offer
Description	Owner set a discount offer on any food. Admin set that offer by the owner decisions with image. Then users can easily view the offers.
Stakeholder	Owner, user and admin
Priority	Medium

2.1.3 FR 3 user can find new Street Food:

Requirements 3	User can find new Street Food
Description	Admin update all data. When admin update any food curt name, then users can find that easily.
Stakeholder:	Admin and user
Priority	High

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2.1.4 FR 4 users can search for street food using Google map:

Requirements 4	Users can search for street food using Google map
Description	Owners give their food cart name and location to the admin. Then admin update all the food curt name in the website with the Google map. Then, user can find the exact location of their desirable food curt.
Stakeholder:	Admin, owner and user
Priority	High

2.1.5 FR 5 user can see the street food list:

Requirements 5	User can see street food list
Description	When owner provide the menu to the admin, then the admin update that in the website. After that users can easily viewing the menu of the food carts.
Stakeholder	Admin, owner and user
Priority	Medium

2.1.6 FR 6 user can see details of street food:

Requirements 6	User can see the detail of street food
Description	Admin update all the data in the site. So, user click on street food, they can see all the details.
stakeholder	Admin and user
Priority	Medium

2.1.7 FR 7 User can see any street food reviews and overview:

Requirements 7	User can see any street food reviews and an overview
Description	Users can see any review on food. But one user can overview any other users review comments.
stakeholder	User and admin
Priority	High

2.1.8 FR 8 users can post review any street food:

Requirements 8	User can post a review any street food
Description	Only users can post review comments on any street food.
stakeholder	User
Priority	High

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2.1.9 FR 9 Users can send a message with admin:

Requirements 9	User can send a message with admin
Description	If users feel something wrong then they can send a message to the admin or they can chat live with the admin.
stakeholder	Admin and user
Priority	Medium

2.1.10 FR 10 Admin can sign in:

Requirements 10	Admin can sign in
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
Priority	Medium

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
Priority	Medium

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. Owner and user also can see the slider.
stakeholder	Admin
Priority	Medium

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
Priority	Medium

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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
Priority	Low

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
Priority	Low

2.1.16 FR 16 Admin can see all discount offers:

Requirements 16	Admin can see all discounts offers
Description	As admin update and add all data in the dashboard. So, admin can easily see all discounts offers in the dashboard.
Stakeholder	Admin
Priority	Medium

2.1.17 FR 17 Admin can insert discount offer:

Requirements 17	Admin can insert discount offer
Description	Discount offer viewing on dashboard. And admin control the dashboard. So, admin can insert discount offer.
stakeholder	Admin
Priority	Low

2.1.18 FR 18 Admin can update discount offer publish status:

Requirements 18	Admin can update discount offer publish status
Description	Admin can update any thing of the dashboard. And discount also viewing on the dashboard. S0, admin can update discount offer.
Stakeholder	Admin
Priority	Low

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2.1.19 FR 19 Admin can delete discount offer:

Requirements 19	Admin can delete discount offer
Description	Admin can edit anything of the dashboard. Discount offer also viewing on dashboard. So, if admin want, he can delete discount offer.
Stakeholder	Admin
Priority	Low

2.1.20 FR 20 Admin can see all street food:

Requirements 20	Admin can see all street food
Description	As admin viewing dashboard. So, admin can see all street food.
stakeholder	Admin
Priority	Medium

2.1.21 FR 21 Admin can insert street food:

Requirements 21	Admin can insert statehood
Description	Admin can edit or insert dashboard's data. So, admin can insert street food
stakeholder	Admin
Priority	High

2.1.22 FR 22 Admin can update street food:

Requirements 22	Admin can update street food
Description	Admin can view all the data of the dashboard also can update. So, admin can update street food.
Stakeholder	Admin
Priority	Medium

2.1.23 FR 23 Admin can delete street food:

Requirements 23	Admin can delete street food
Description	Admin can delete any data of the dashboard. Street food also viewing in the dashboard.so admin can delete street food.
stakeholder	Admin
Priority	Medium

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2.1.24 FR 24 Admin can see all location map:

Requirements 24	Admin can see all location map
Description	Location is given by the owner. Admin just add this in the dashboard. So, admin can see the location.
Stakeholder	Admin
Priority	High

2.1.25 FR 25 Admin can insert all location map:

Requirements 25	Admin can insert all location map
Description	If the owner wants to add new location, he gives that information to admin. And admin insert this in the dashboard.so admin can insert all location map.
Stakeholder	Admin
Priority	High

2.1.26 FR 26 Admin can update location map:

Requirements 26	Admin can update location map
Description	If owner want update of the location, then admin can update the location from the dashboard.
stakeholder	Admin
Priority	Medium

2.1.27 FR 27 Admin can delete location map:

Requirements 27	Admin can delete location map
Description	If owner wants to delete the location from the map, then admin delete the location from the dashboard.so, admin can delete the location.
Stakeholder	Admin
Priority	Medium

2.1.28 FR 28 Admin can see all review:

Requirements 28	Admin can see all review
Description	Admin can view all the data of the dashboard. So, when an user add a review comment that add in a specific section of dashboard And admin can see all the review comment.
Stakeholder	Admin
Priority	Medium

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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

SLR-2	Searching result must be faster.
Description	When users search for any information, then the search result must show within two seconds.
Stakeholders	Admin and User

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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.

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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

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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

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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 users.
Description	Our web application is usable to the user by which they can easily find any kind of food cart.
Stakeholders	User

2.7.2 Personalization and Internationalization Requirements:

"STREETFOOD FINDER BD" 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.

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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:

Street Food Finder BD 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.

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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.

.

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.

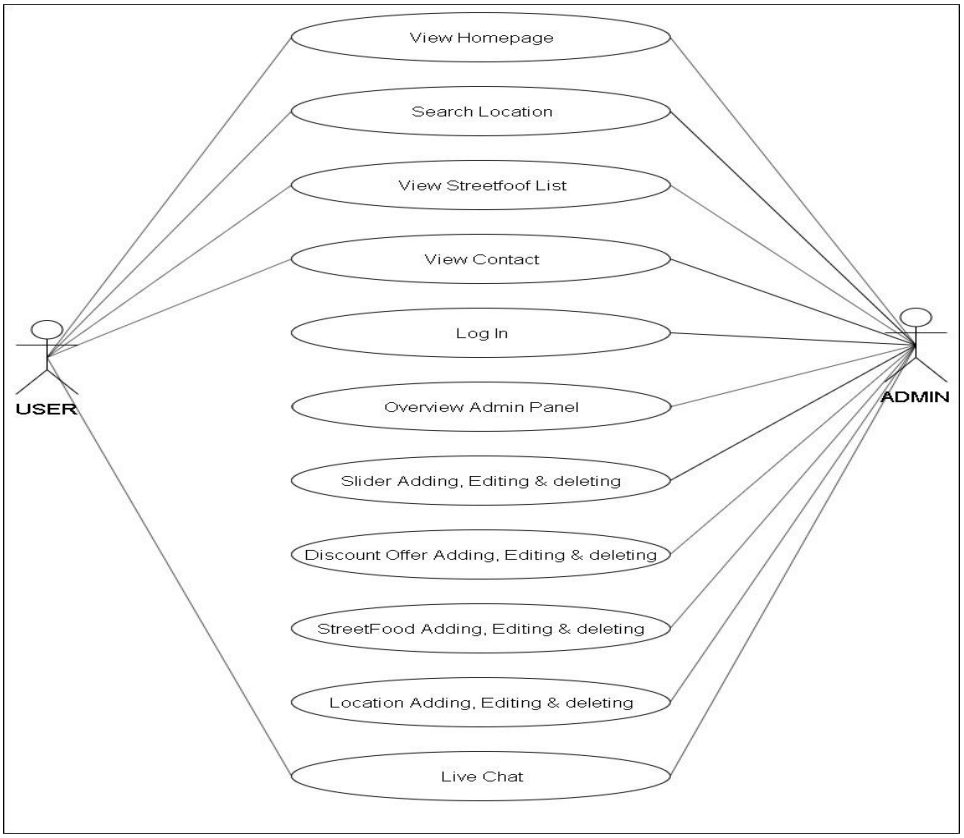

FIGURE: Use Case Diagram

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3.2 USE CASE DESCRIPTION

3.2.1 Homepage

Use case	View Homepage	
Use case no	01	
Goal	To see popular street food, discount offer, new street food list	
Preconditions	User need to type URL.	
Primary actor **Secondary actor**	Users	
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 Search

Use case	Search Location	
Use case no	02	
Goal	To find out the location/name of street food	
Preconditions	User need to type URL and then click search option.	
Primary actor **Secondary actor**	Users	
Trigger	Button	
Description/Main success scenario	Step	Action
	1	Select the search button
	2. Write the location name in the search bar	
	3. Information will be shown	
Post conditions	User can closed the window or go other page.	
Alternative flow	Not applicable	

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3.2.3 Street Food List

Use case	View Street Food List	
Use case no	03	
Goal	To see street food list the name, location, review.	
Preconditions	User need to type URL and then click street food list option.	
Primary actor **Secondary actor**	Users Admin	
Trigger	Button	
Description/Main success scenario	Step	Action
	1	To see street food cart name
	2	To see number people who review
	3	To know about everything about street food cart
Post conditions	User can closed window or browsing.	
Alternative flow	Not applicable	

3.2.4 Contact

Use case	View Contact	
Use case no	04	
Goal	To find out the information of owner.	
Preconditions	User need to type URL and then click contact option.	
Primary actor **Secondary actor**	Users	
Trigger	Button	
Description/Main success scenario	Step	Action
	1	Enter the website
	2	Select contact button
	3	Information will be shown
Post conditions	User can send message to admin by the website or closed window.	
Alternative flow	Not applicable	

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3.2.5 Location Map

Use case	Location Map adding, editing & deleting	
Use case no	05	
Goal	To add address of street food cart by using Google Map.	
Preconditions	Admin need to be log in.	
Primary actor **Secondary actor**	Admin	
Trigger		
	Step	Action
Description/Main success scenario	Step	Action
	1	Just add, edit, and delete the address of street food cart.
Post conditions	User would see the address	
Alternative flow	Not applicable	

3.2.6 Discount offer

Use case	Discount offer adding, editing & deleting	
Use case no	06	
Goal	To add discount offer post image to view in the website.	
Preconditions	Admin need to be log in and can add, edit or delete offer post.	
Primary actor **Secondary actor**	Admin	
Trigger		
Description/Main success scenario	Step	Action
	1	Slideshow
	2	Just add, edit and delete discount offer image.
Post conditions	User can see offer post.	
Alternative flow	Not applicable	

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3.2.7 Street food list

Use case	Street food list adding, editing & deleting	
Use case no	07	
Goal	To add the information of new street food cart name.	
Preconditions	Admin need to be log in and click street food list for add, edit or delete.	
Primary actor **Secondary actor**	Admin	
Trigger	Button	
Description/Main success scenario	Step	Action
	1	Just add, edit and delete name of street food cart.
Post conditions	User would find out street food cart.	
Alternative flow	Not applicable	

3.2.8 Slider

Use case	Slider adding, editing & deleting	
Use case no	08	
Goal	To show the image of street food and location.	
Preconditions	Admin need to be log in and click slider option for add, edit or delete.	
Primary actor **Secondary actor**	Admin	
Trigger	Button	
Description/Main success scenario	Step	Action
	1	To add, edit and delete the image.
	2	Give a location.
Post conditions	User can see area based food slider image.	
Alternative flow	Not applicable	

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3.2.9 Admin Panel or Dashboard

Use case	Admin Panel or Dashboard	
Use case no	09	
Goal	To find out the information of street food overview	
Preconditions	Admin need to be log in.	
Primary actor **Secondary actor**	Admin	
Trigger	Button	
Description/Main success scenario	Step	Action
	1	To see review of street food website and monthly statistic view.
Post conditions	Admin can logged out.	
Alternative flow	Not applicable	

3.2.10 Live Chat

Use case	Live Chat	
Use case no	10	
Goal	User connect and chatting with admin for query.	
Preconditions	User have to type URL and click live chat option.	
Primary actor **Secondary actor**	Users Admin	
Trigger	Button	
Description/Main success scenario	Step	Action
	1	To talk with admin for sharing about website or streetfood.
Post conditions	User can talking with admin live.	
Alternative flow	Not applicable	

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3.2.11 Log In

Use case	Log In	
Use case no	11	
Goal	Admin have to type URL and insert valid username and password.	
Preconditions	Admin need to be log in.	
Primary actor **Secondary actor**	Admin	
Trigger		
	Step	Action
Description/Main success scenario	Step	Action
	1	Enter the dashboard or Admin panel after successfully logged in.
Post conditions	Admin can view dashboard.	
Alternative flow	Not applicable	

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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 Homepage:

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, Street food list, Gallery, Live Chat, and Contact. User can check Homepage.

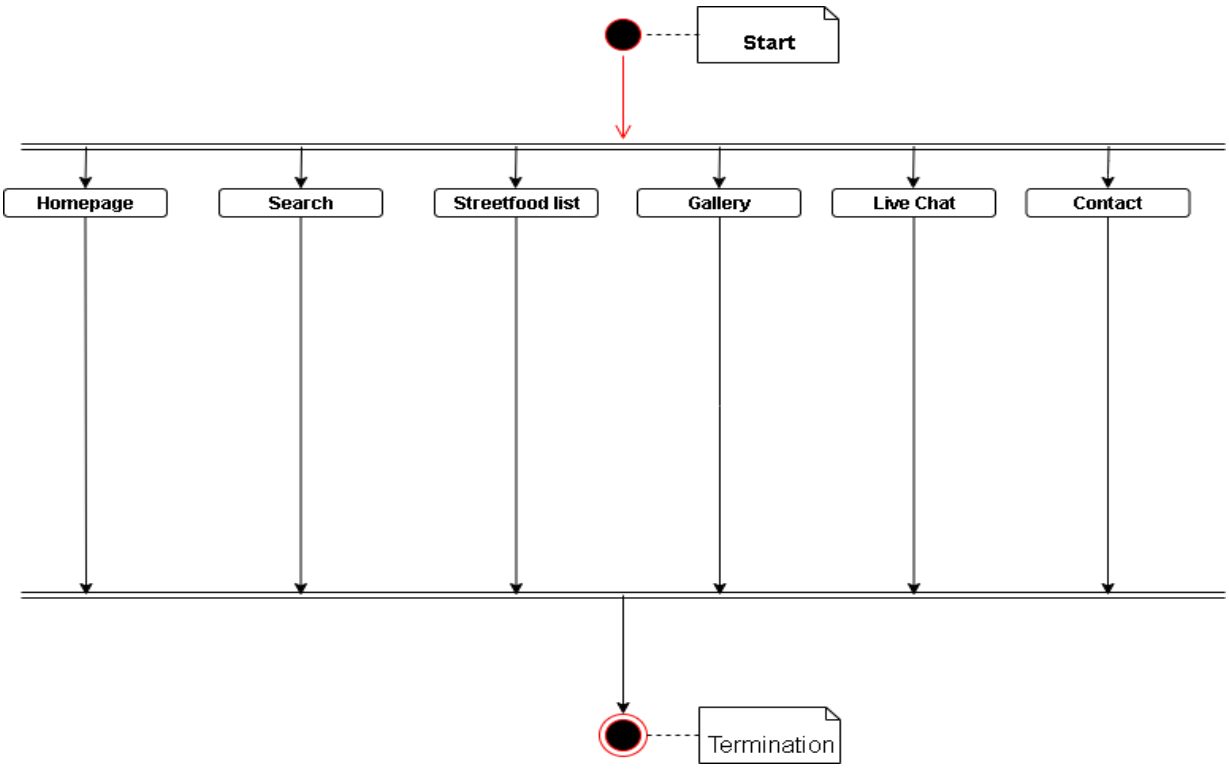

FIGURE: Homepage

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3.3.2 Search:

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

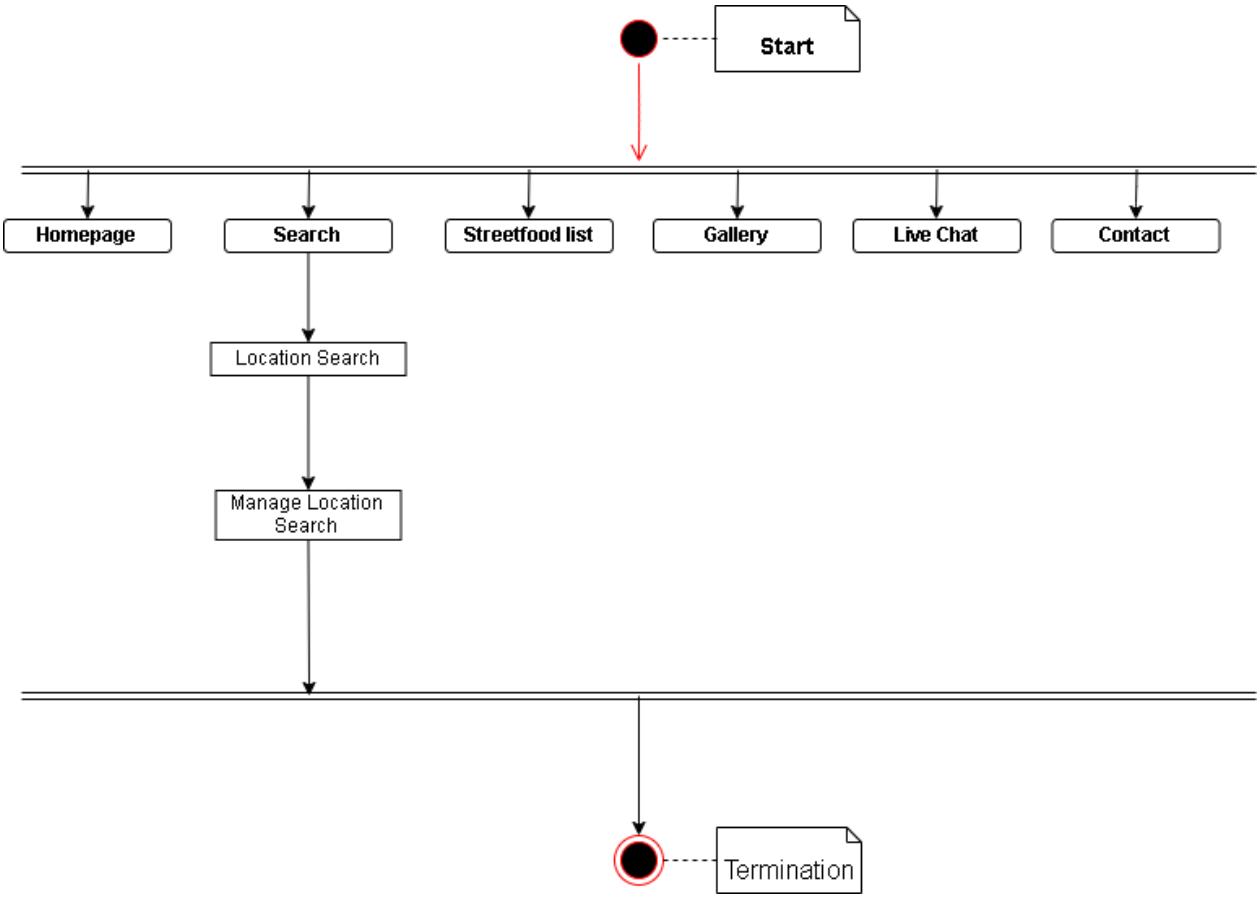

FIGURE: Search

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3.3.3 Street Food List:

User go to Street food 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, and Overview and also give review to press Write Review.

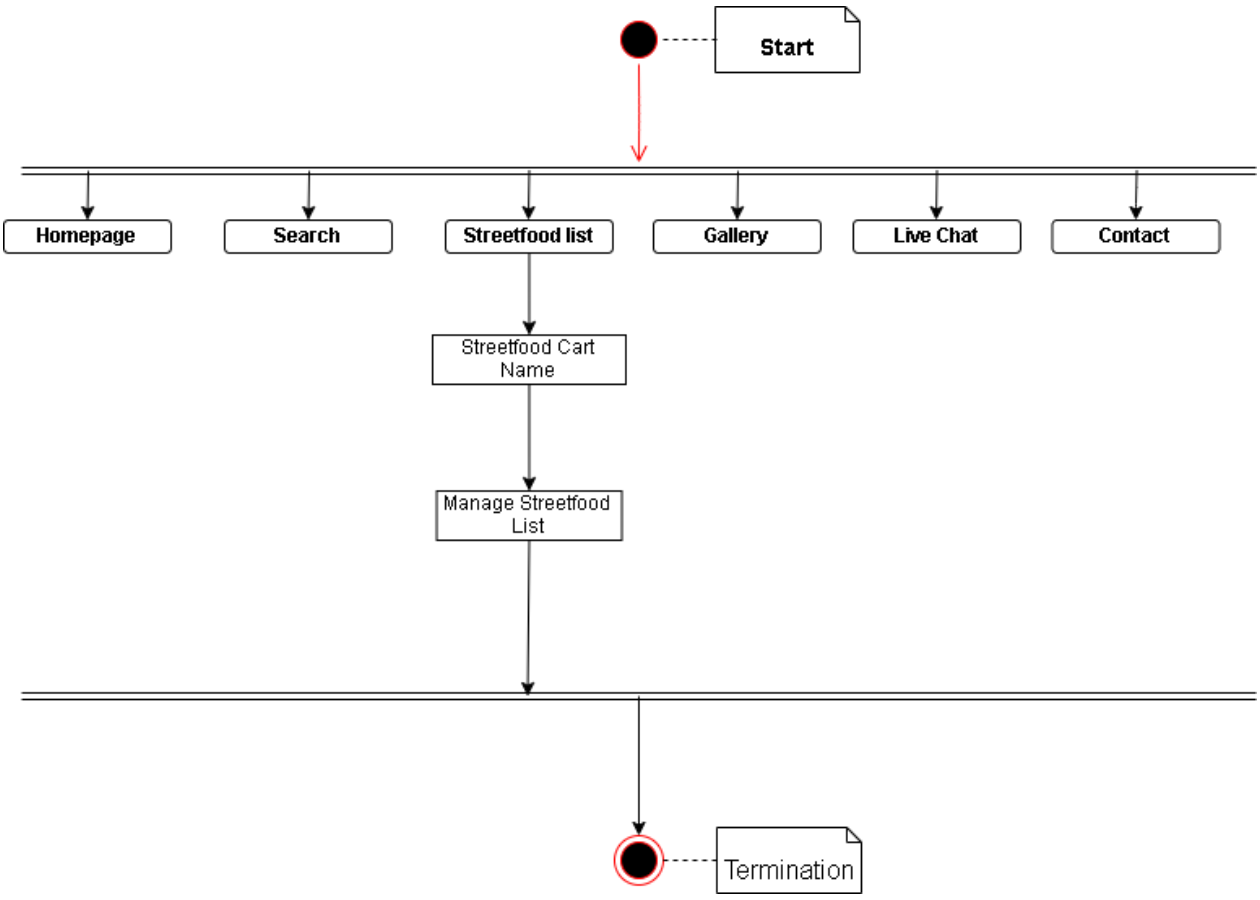

FIGURE: StreetFood List

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3.3.4 Gallery:

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

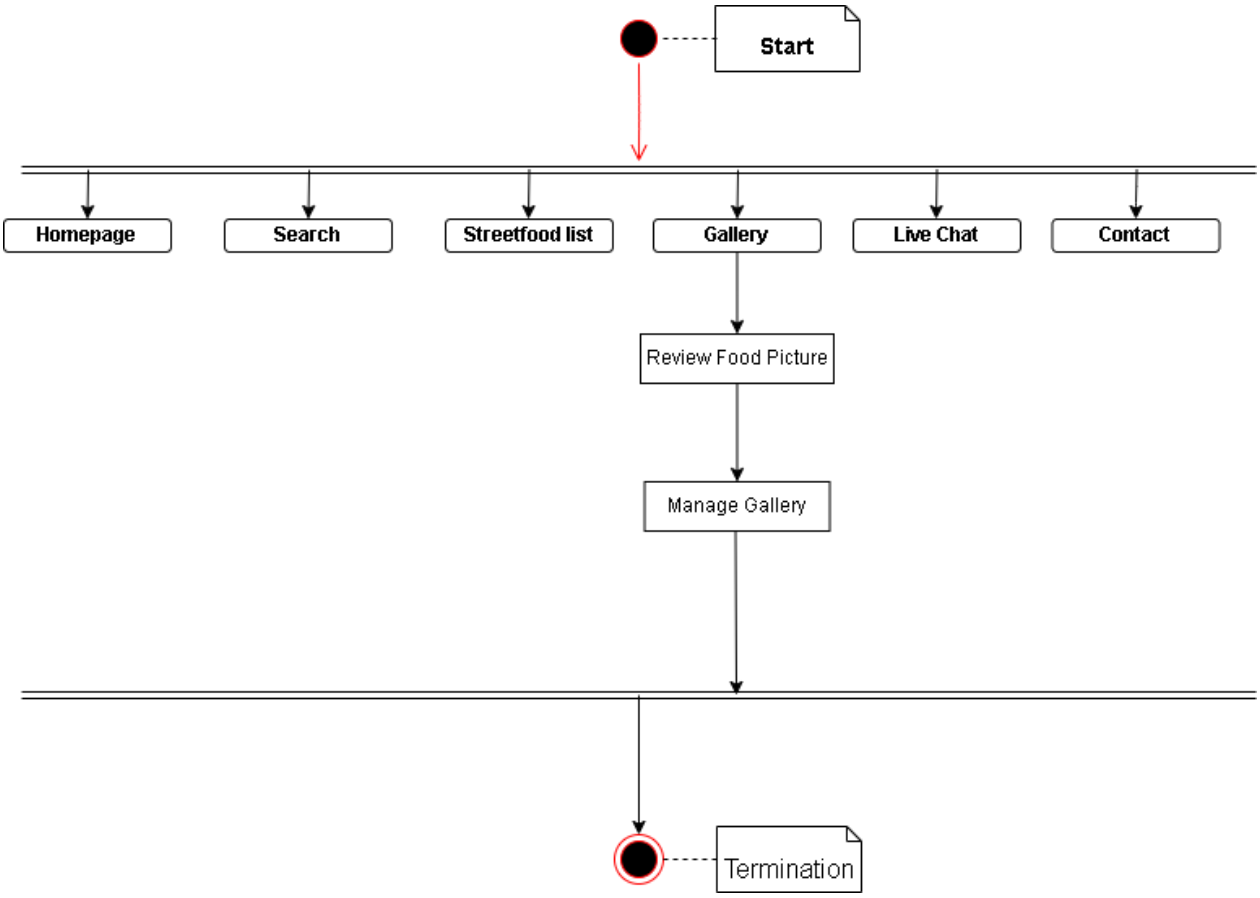

FIGURE: Gallery

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3.3.5 Contact:

User go to Contact and will get about contact information like mobile, email, address. Also can send message to write something.

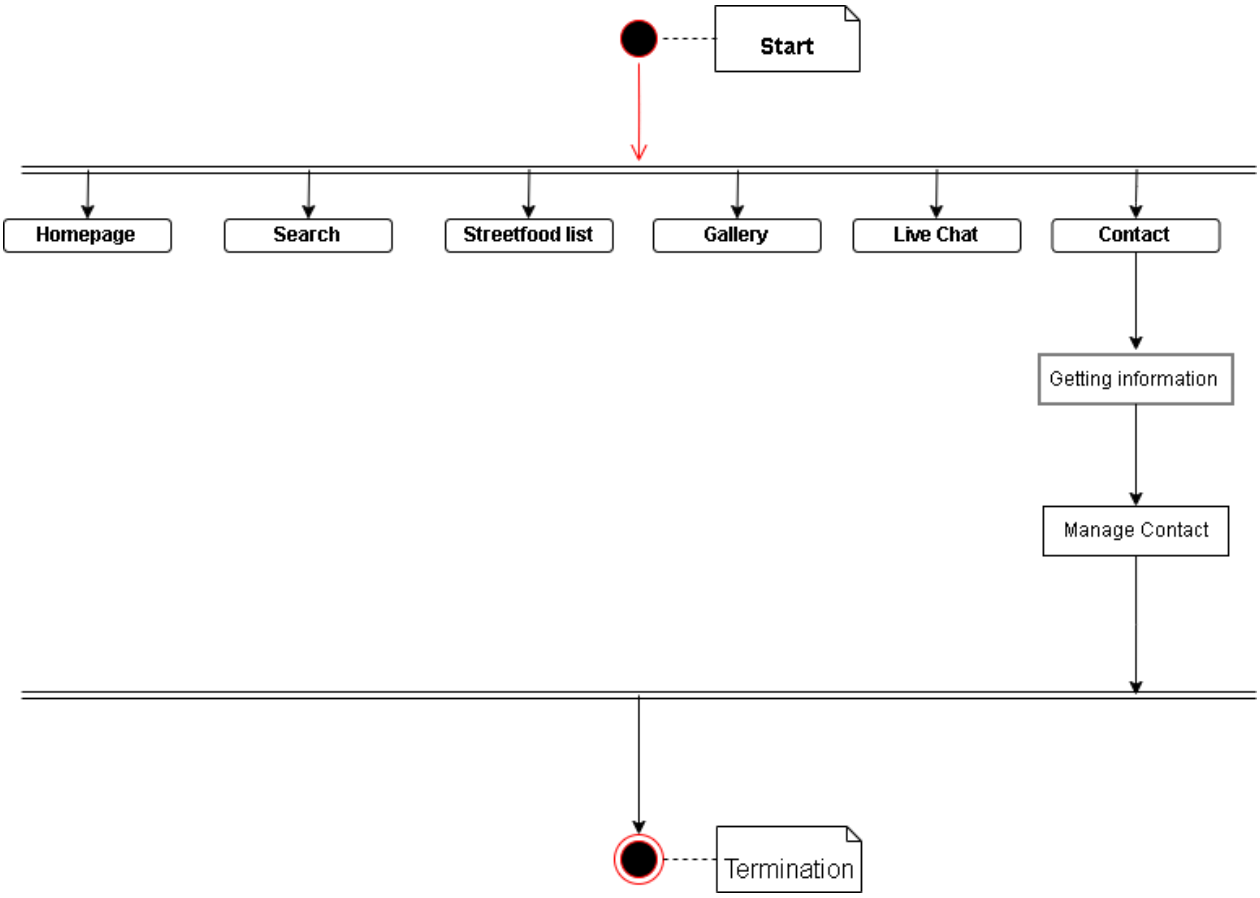

FIGURE: Contact

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3.3.6 Live Chat:

User go to Live Chat option and chat with admin in live for any kind complain or suggestion.

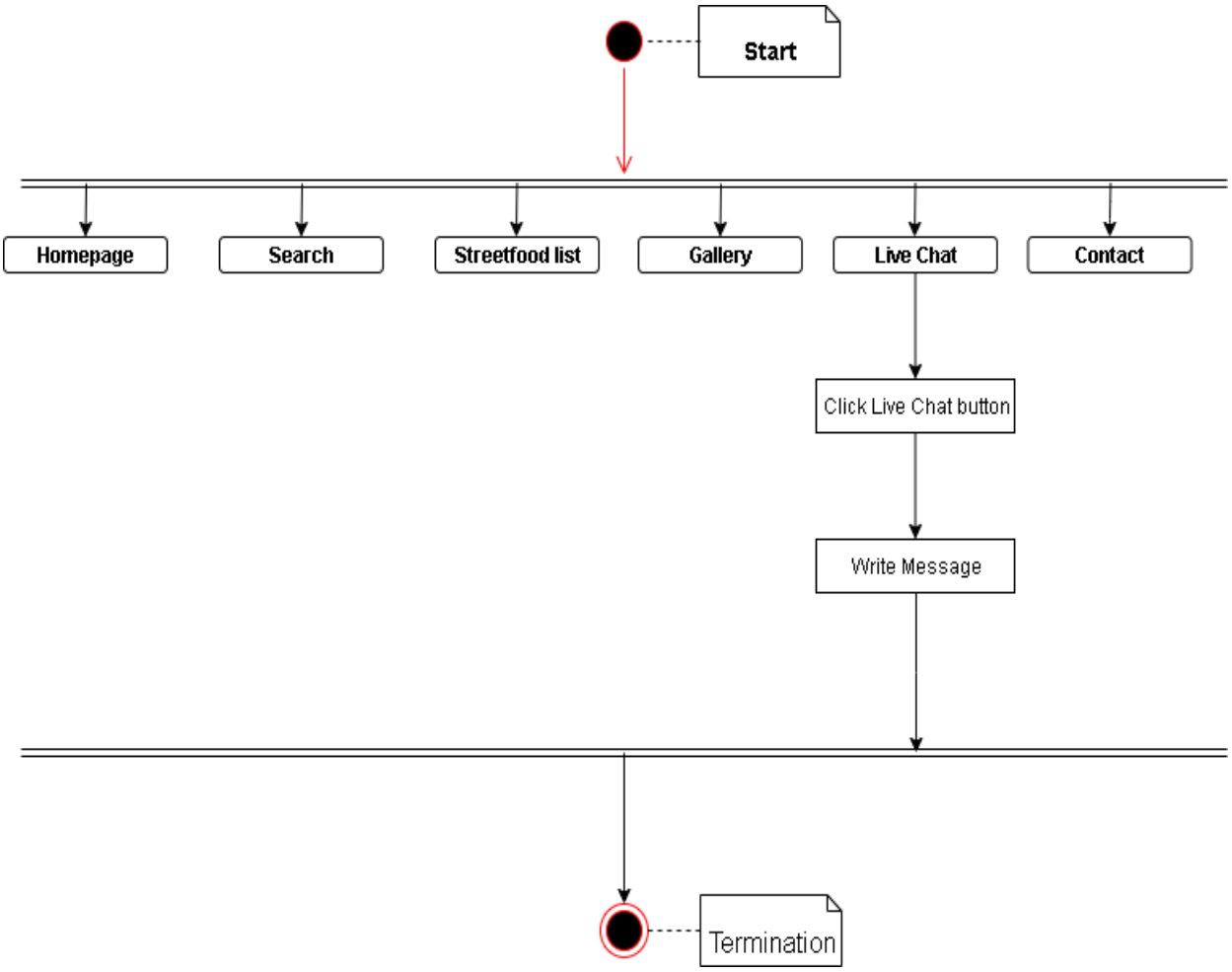

FIGURE: Live Chat

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3.3.7 Dashboard:

Admin need to log in this system. If log in successfully then he/she can access Dashboard, Slider, Discount Offer, Street Food, Location Map, Review. Admin can see updates on Dashboard. As like admin can see regular slider, Discount Offer, Street Food and monthly review. Admin can check monthly review statistic and overall view also.

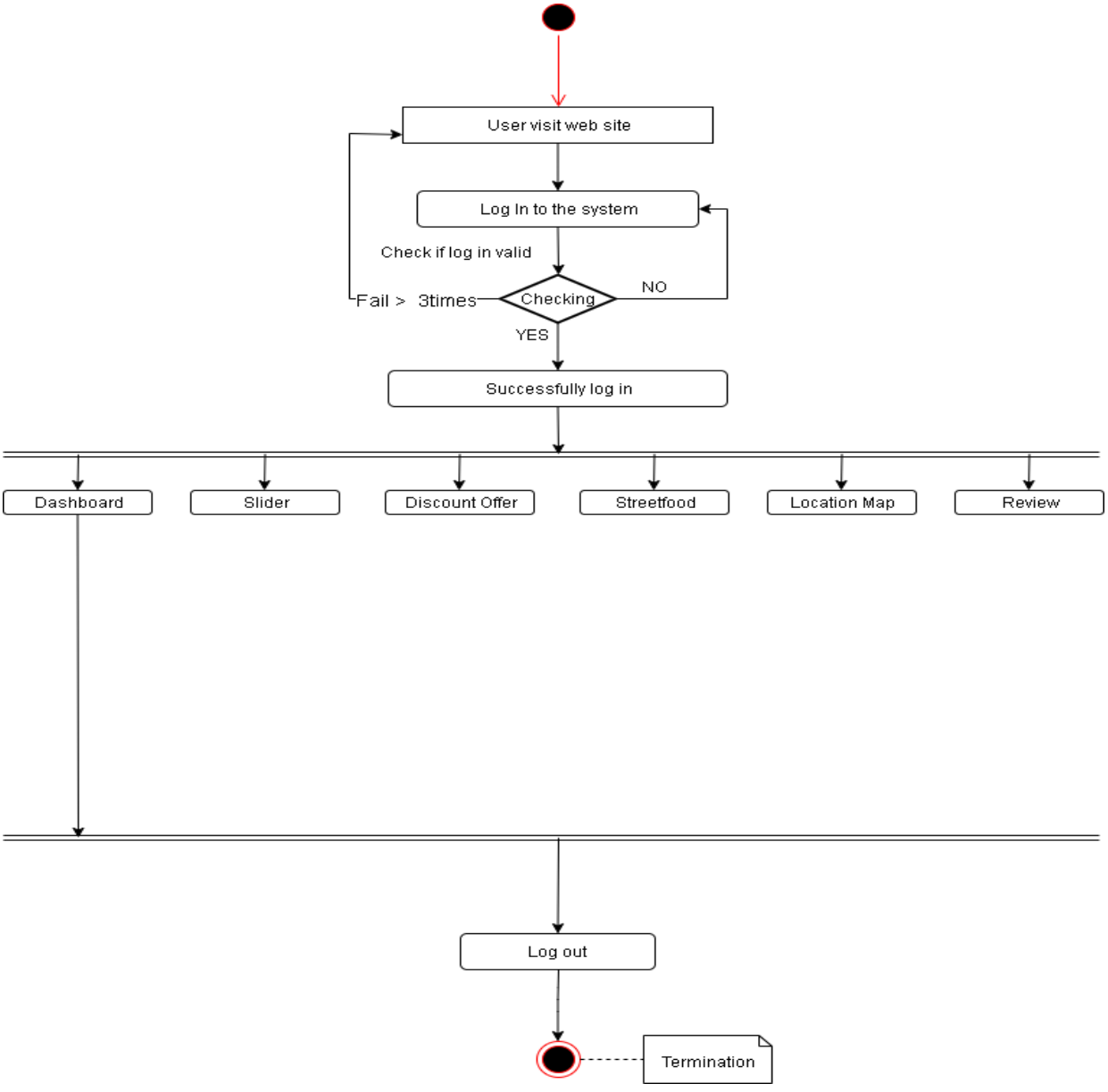

FIGURE: Dashboard

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3.3.8 Slider:

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

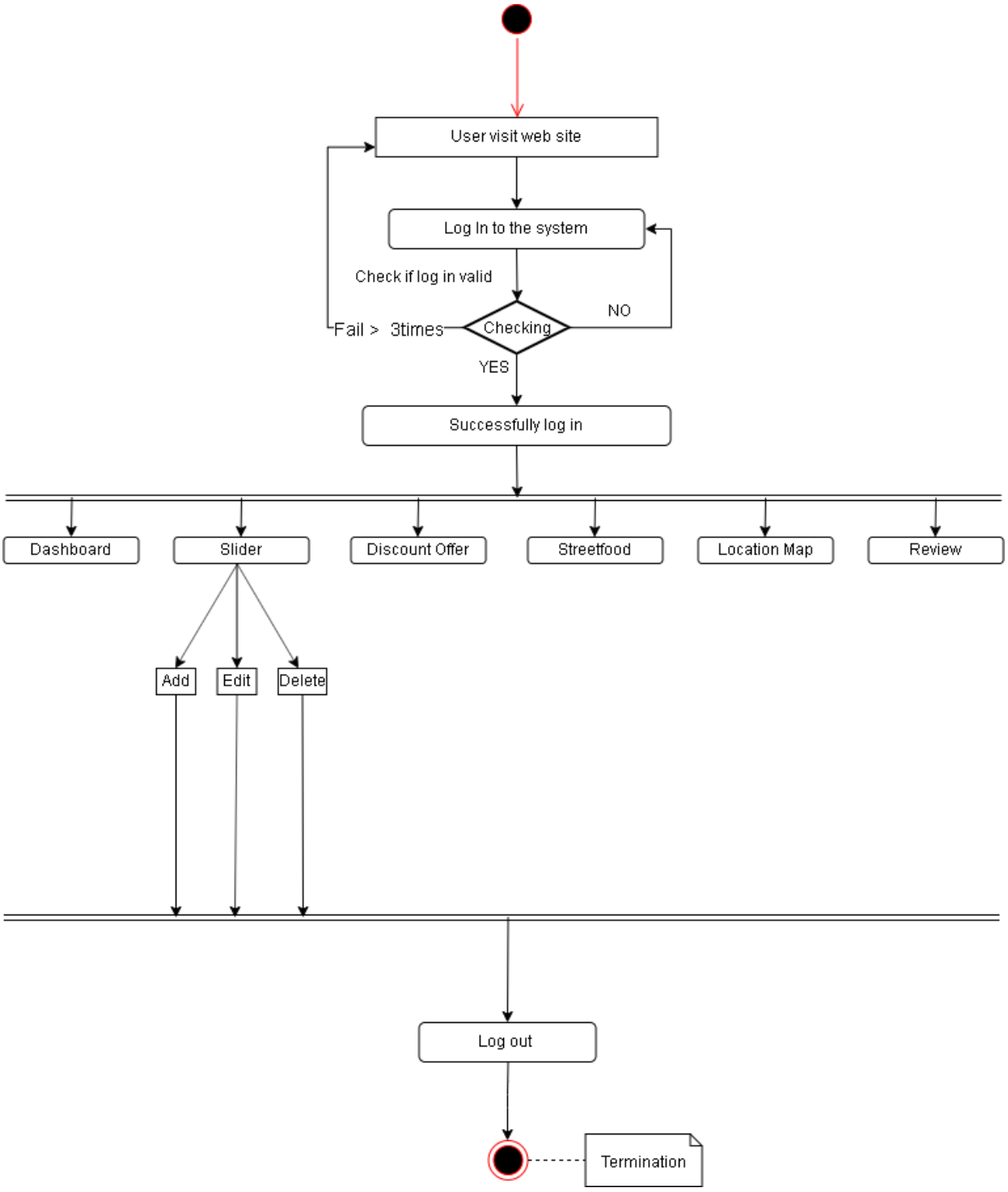

FIGURE: Slider

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3.3.9 Discount Offer:

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

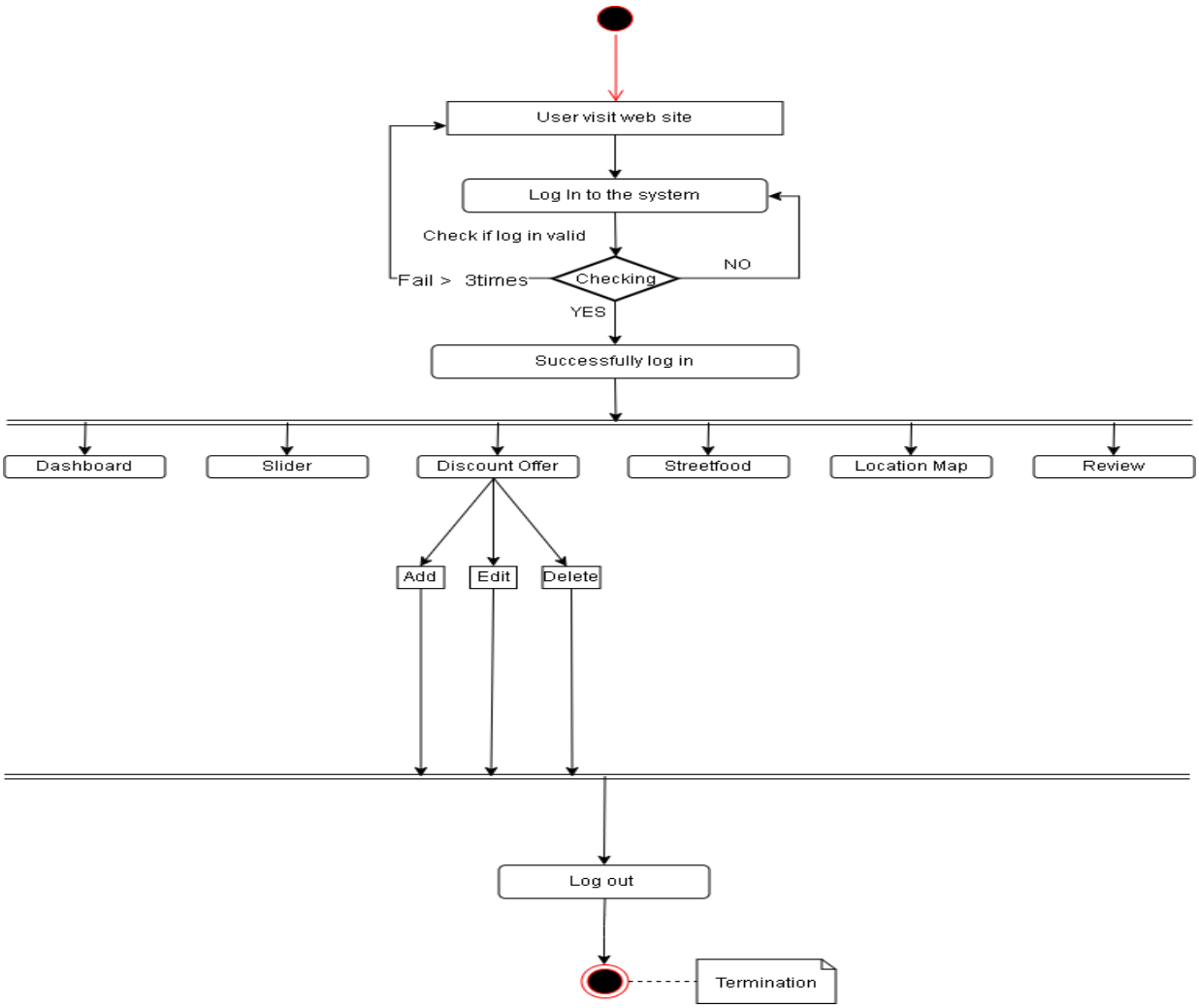

FIGURE: Discount Offer

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3.3.10 Street Food List:

Admin need to be logged in first then admin click Street Food List option and can add, edit or delete street food cart. Also can set available time.

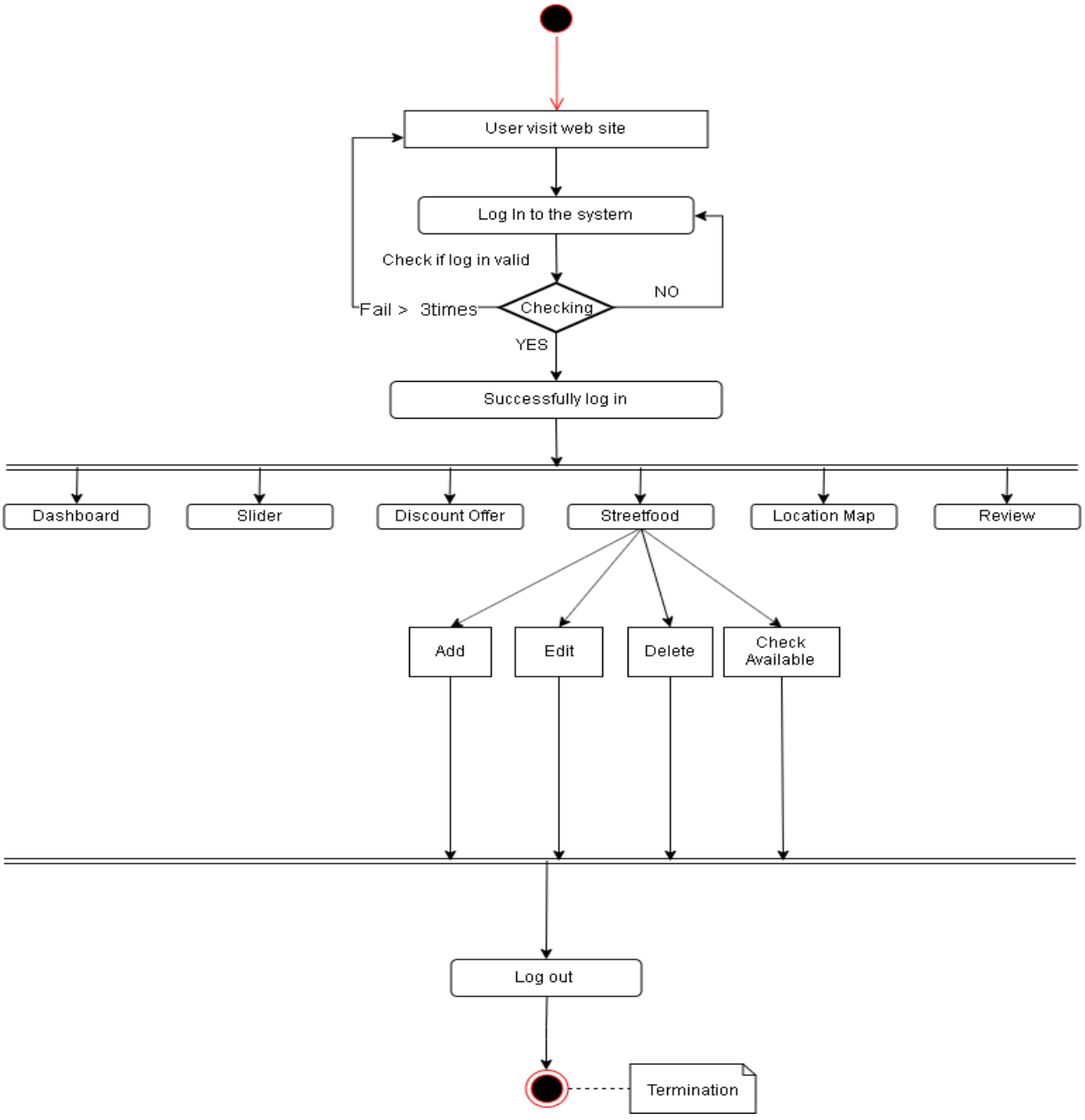

FIGURE: Street Food List

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3.3.11 Location Map:

Admin need to be logged in first then admin click Location Map option and can add, edit or delete location.

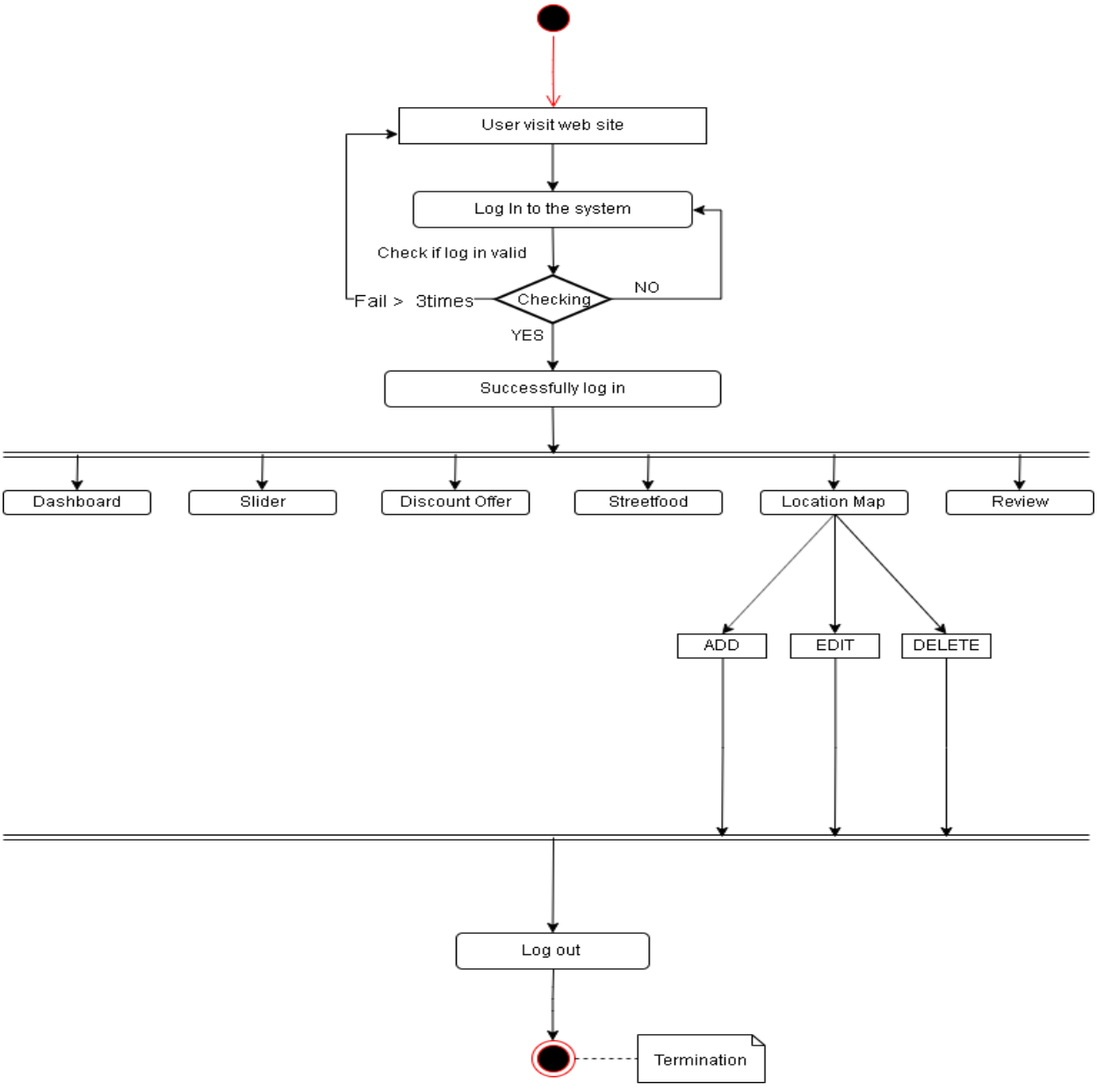

FIGURE: Location Map

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3.3.12 Review:

Admin need to be logged in first then admin click Review option and can see all street food carts reviews.

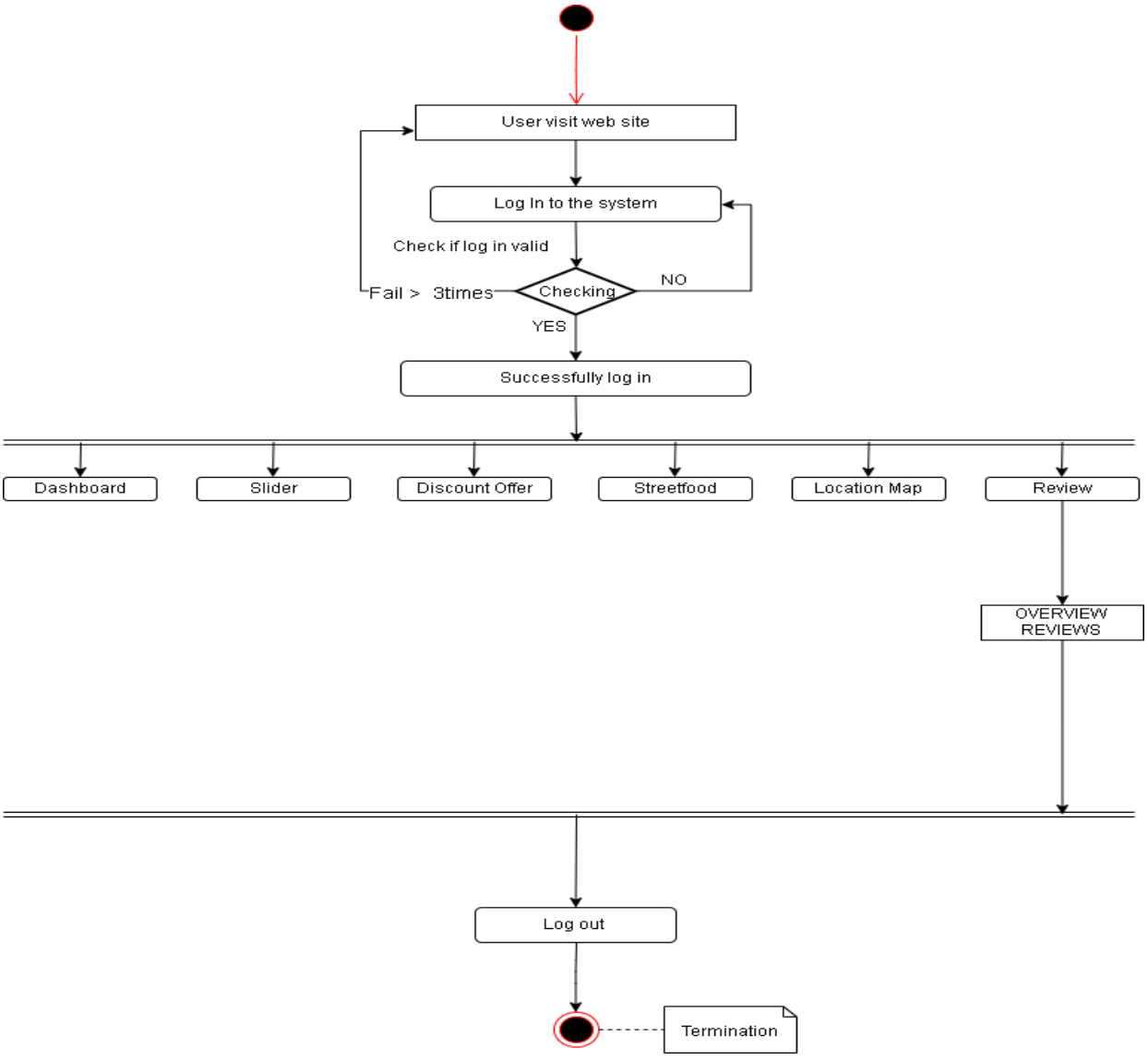

FIGURE: Review

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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:

When user go to the right URL that is Street food finderbd, then system will show slider, recent review, new place, customer support, discount offer and street food list to user.

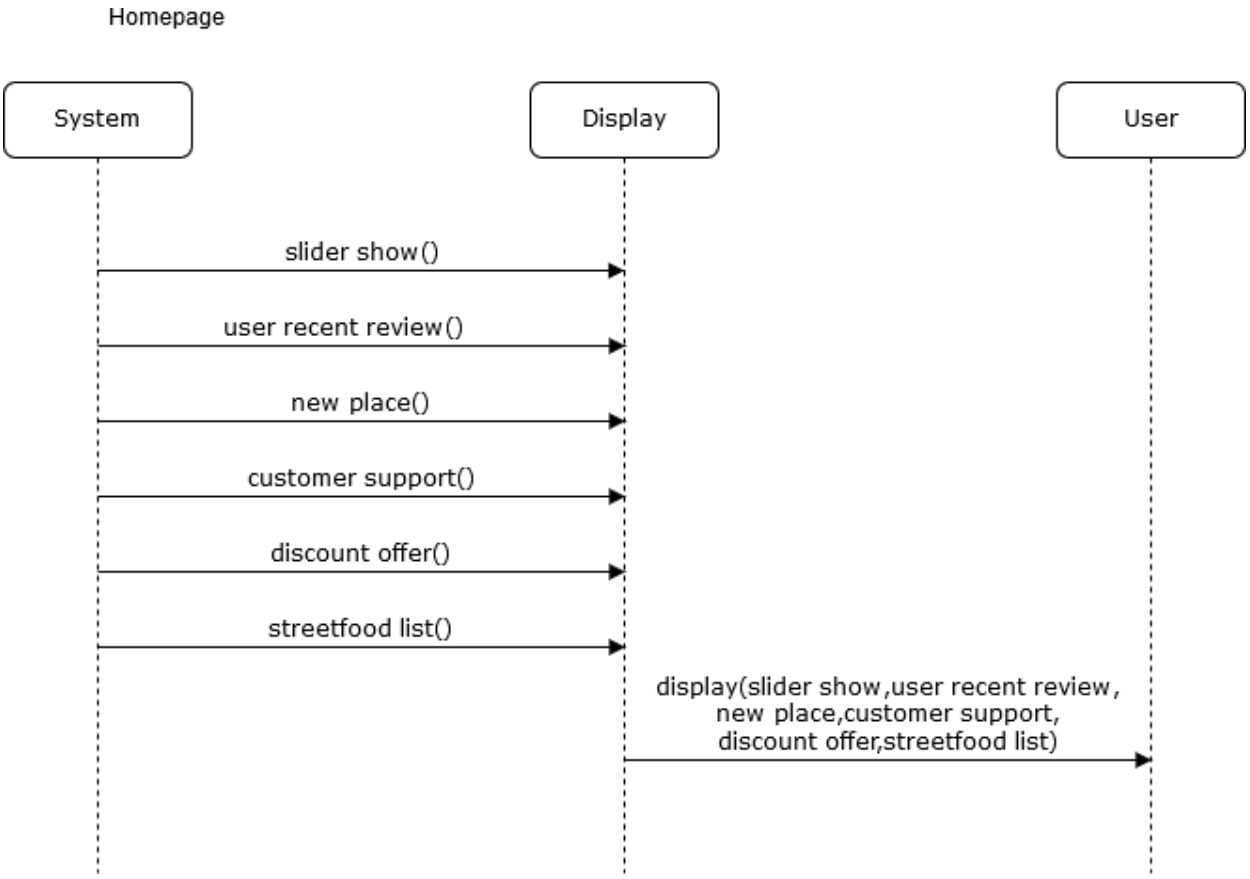

FIGURE: Homepage

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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.

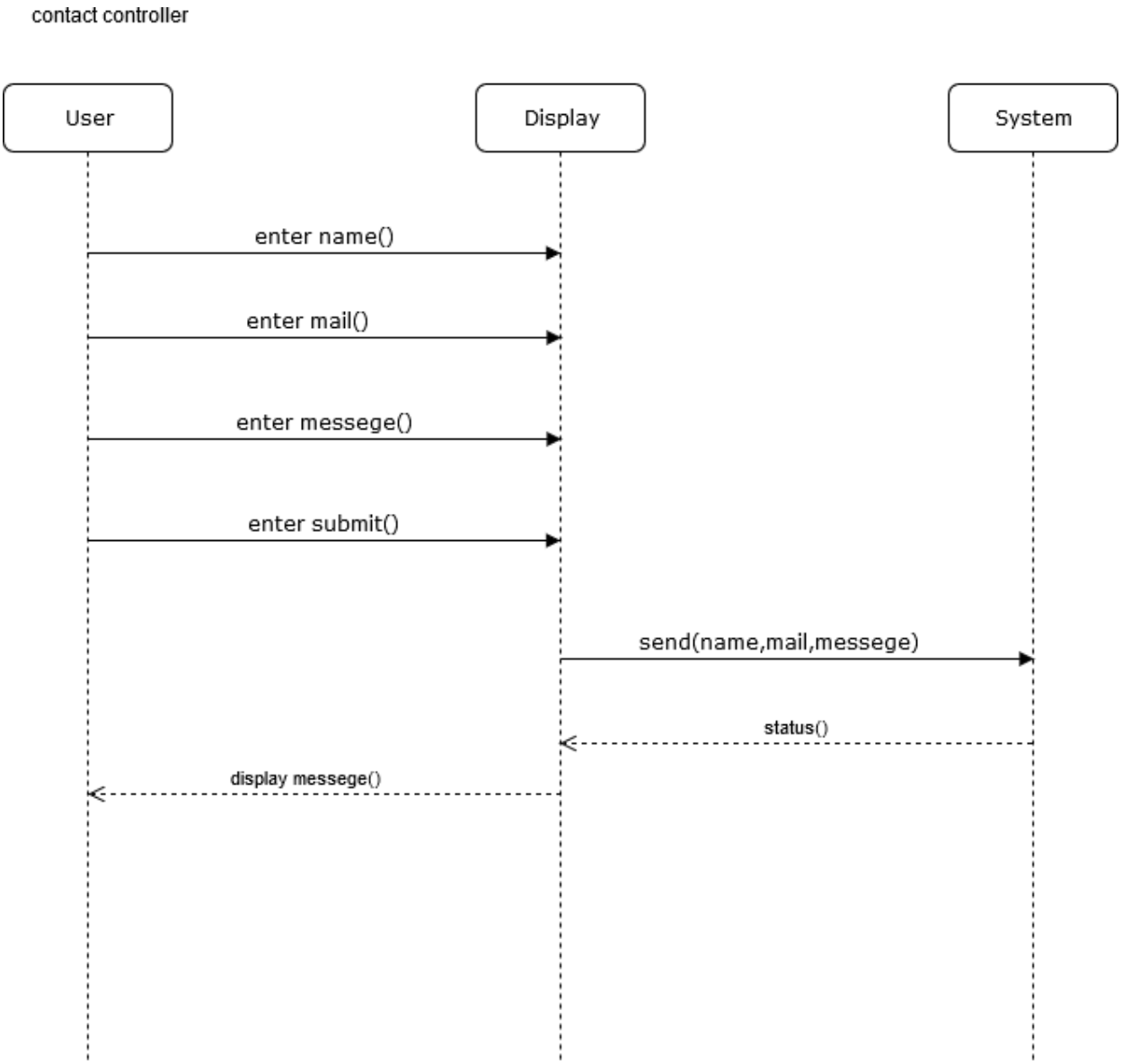

FIGURE: Contact

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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.

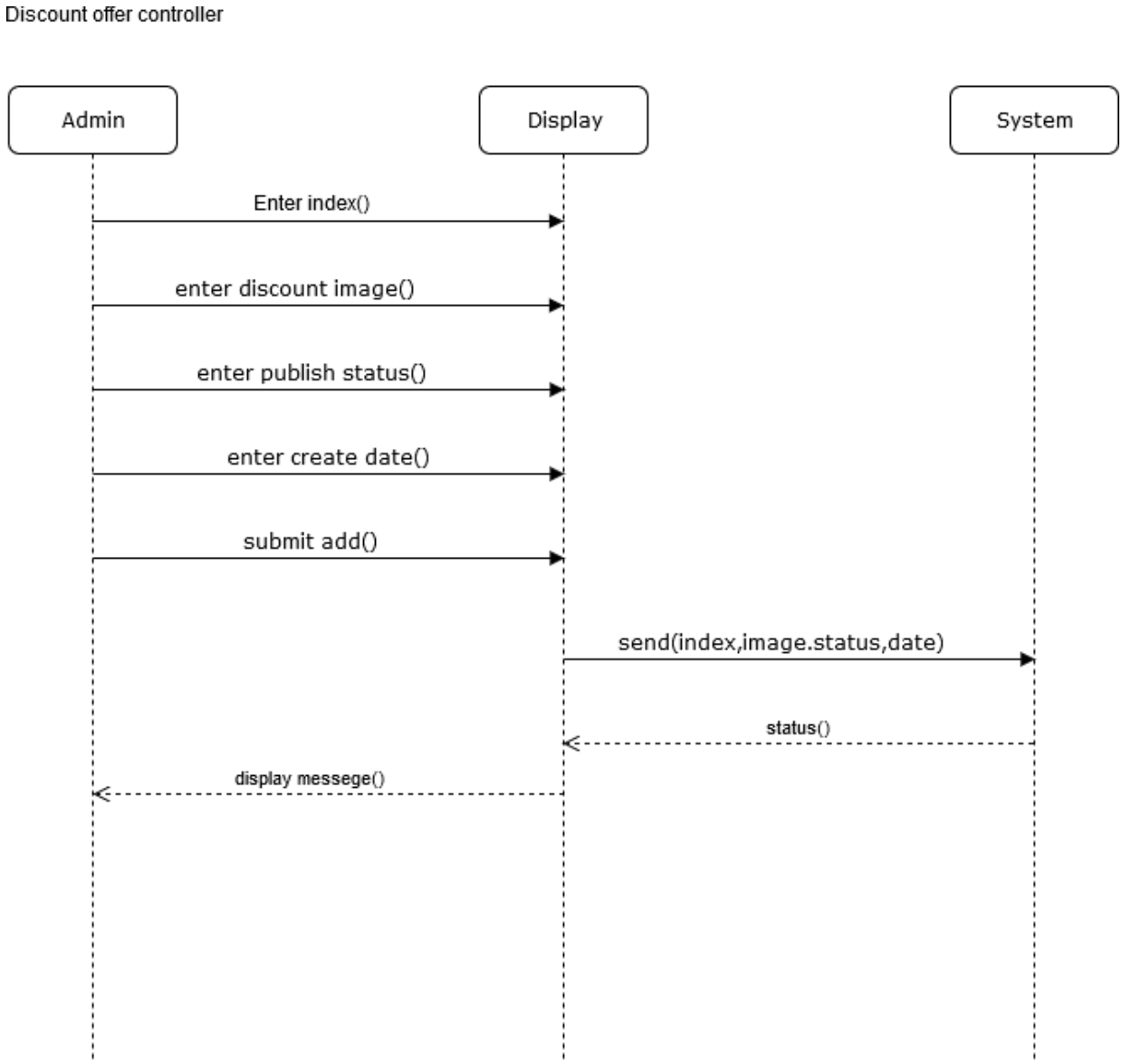

FIGURE: Discount Offer

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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.

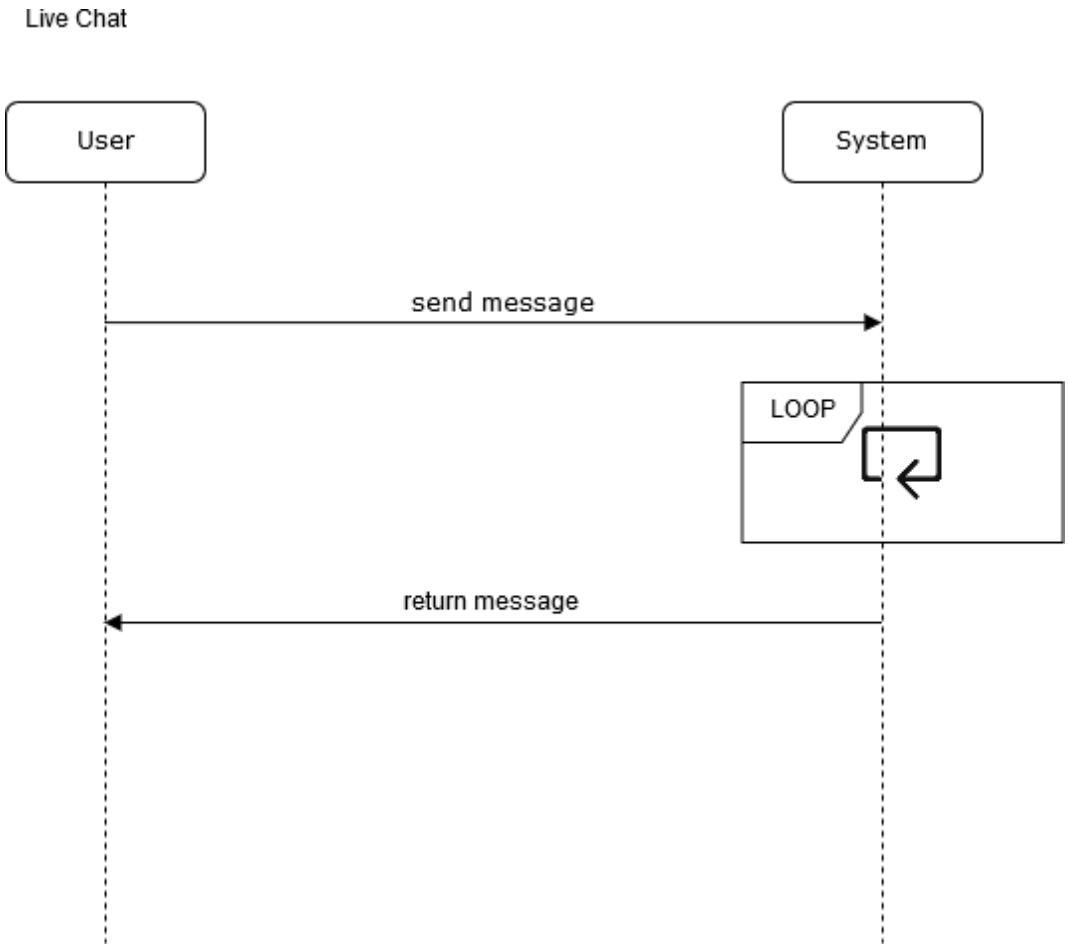

FIGURE: Live Chat

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3.4.5 Location map for Admin:

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

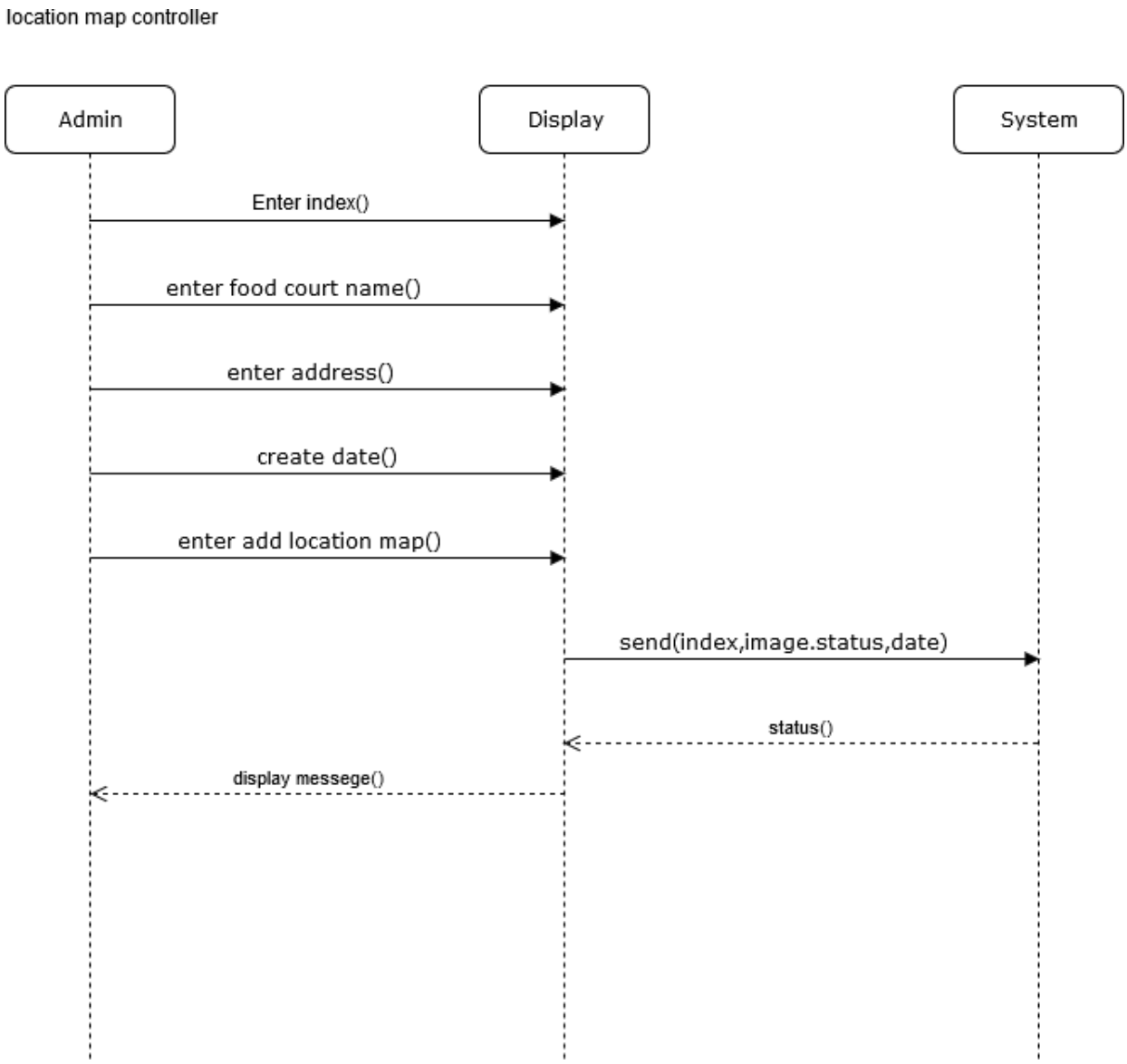

FIGURE: Location Map

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3.4.6 Search:

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

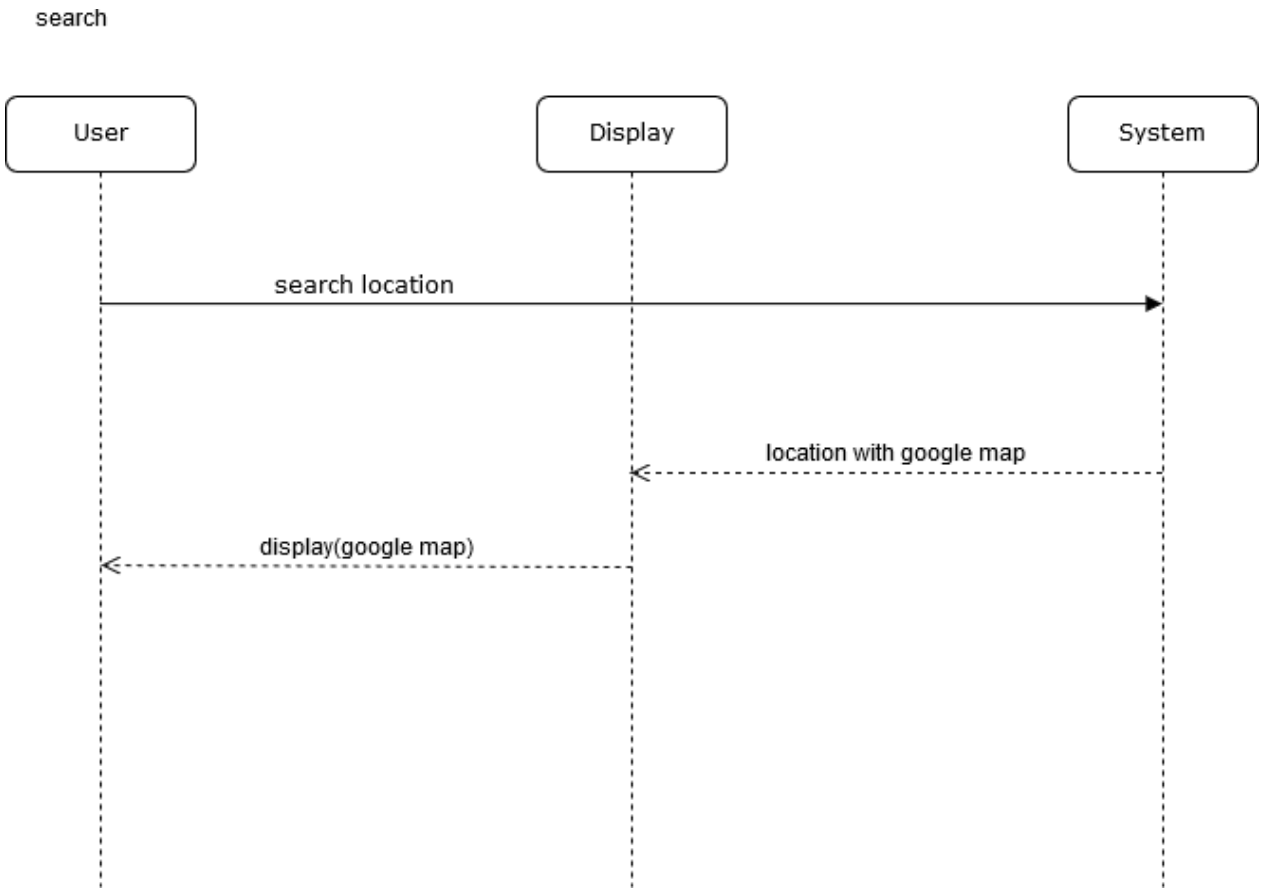

FIGURE: Search

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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.

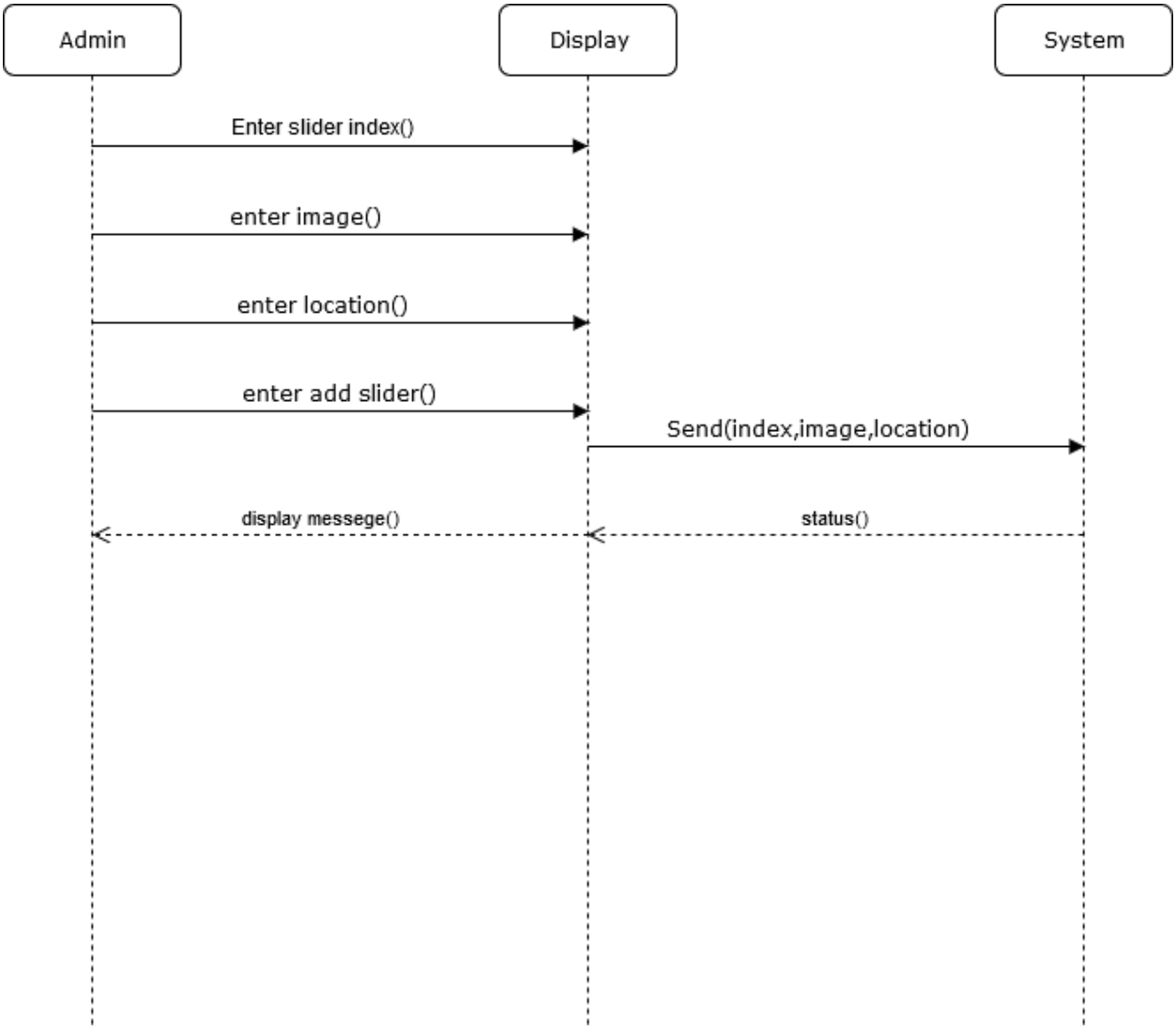

FIGURE: Slider

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3.4.8 Street food List for User:

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

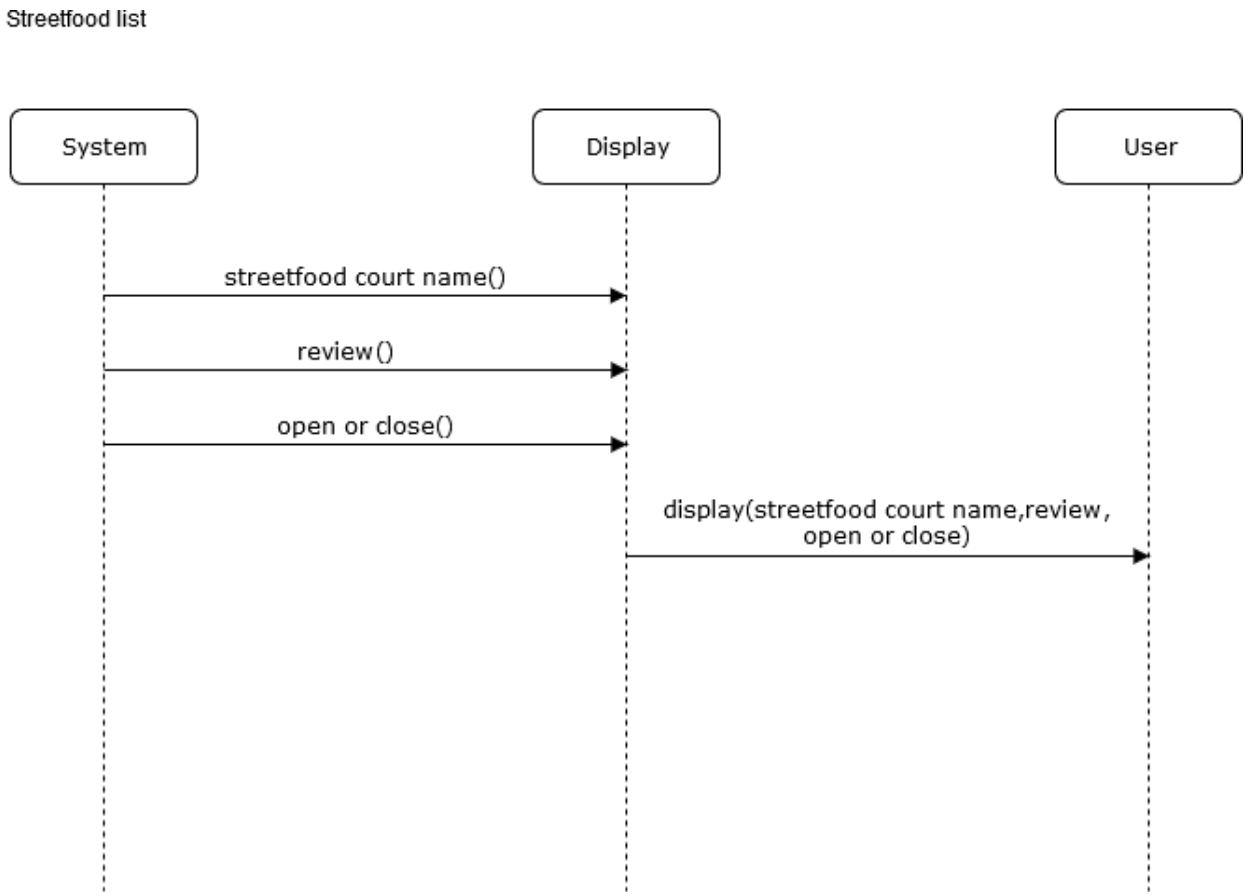

FIGURE: Streetfood List

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3.4.9 Street food for Admin:

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

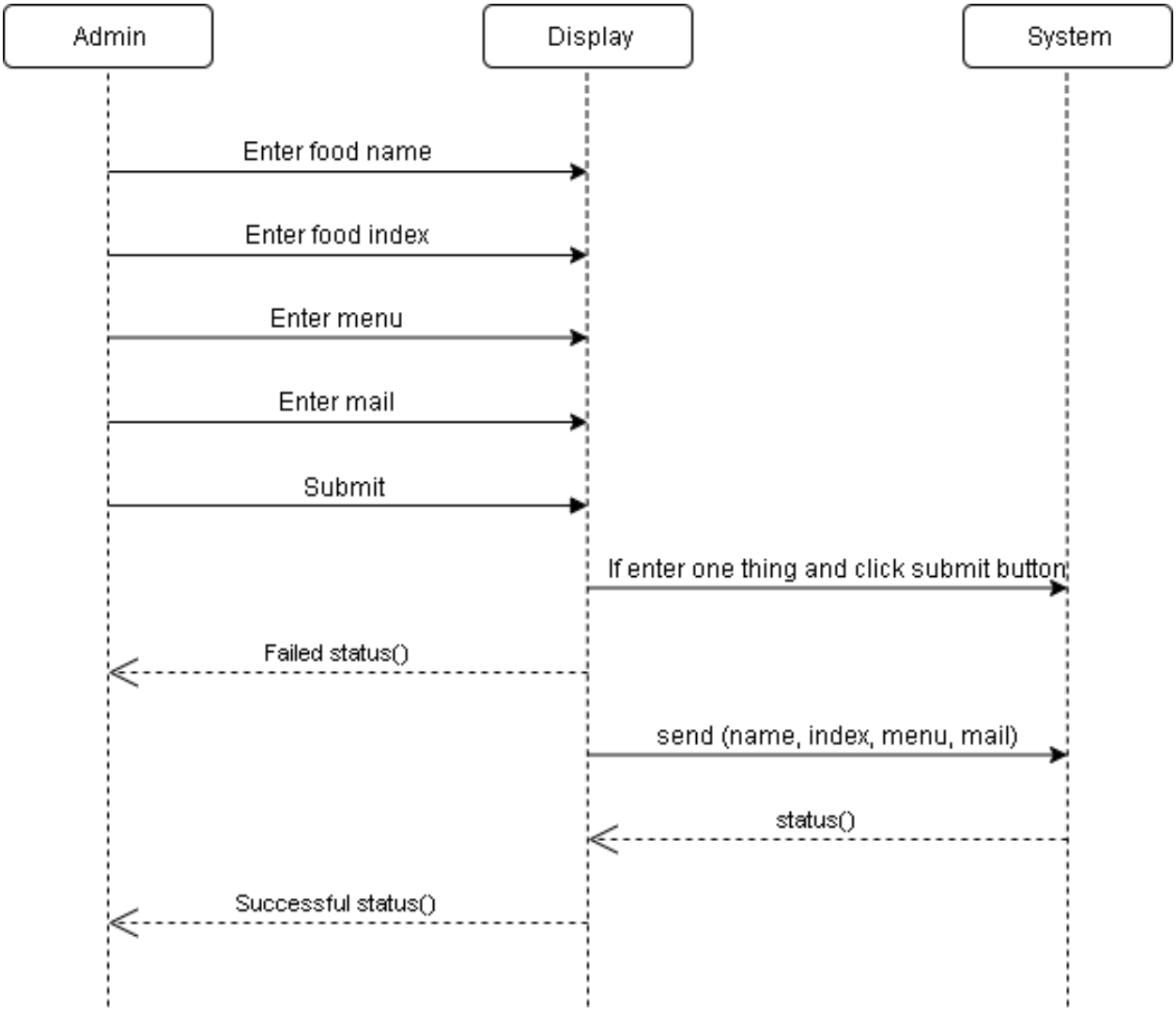

FIGURE: StreetFood List

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CHAPTER 4

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 Laravel and Laravel-livewire framework, I use sublime text.

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, and Mozilla Firebox etc.

4.1.1.2 Programming language

For developing any application system minimum one programming language is essential. In my application, there are two different programming language is used. Back-end programming language php framework Laravel. 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.

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4.1.2.1 Integrated development environment

In my application developing time used one tools. Only Sublime Text 3. It's a faster secure and that is provide lots of snippets.

4.1.2.2 Laragon

Laragon is a portable, isolated, fast & powerful universal development environment for PHP. So, I am using for my project to build up quickly and Laragon starts instantly.

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4.2 CLASS DIAGRAM (MODEL DIAGRAM):

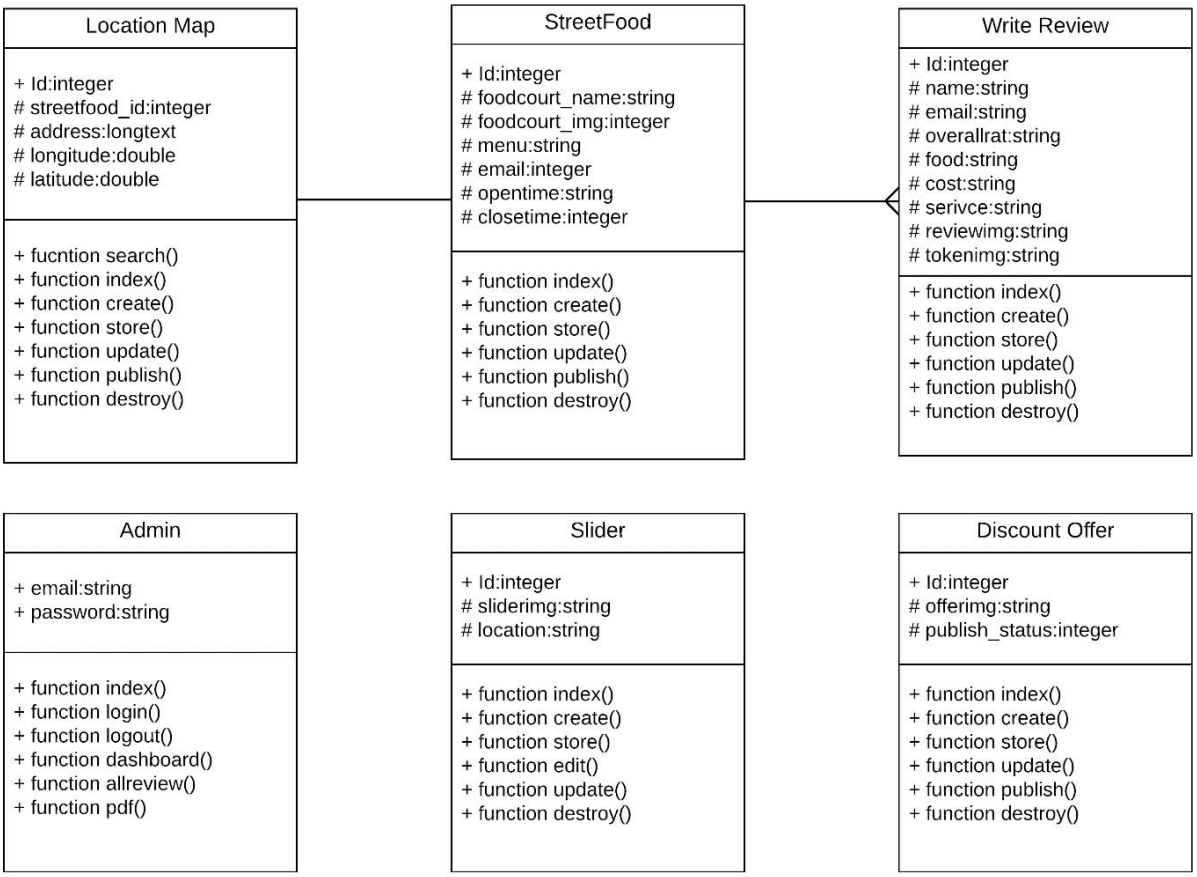

FIGURE: CLASS DIAGRAM (MODEL)

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4.3 CLASS DIAGRAM:

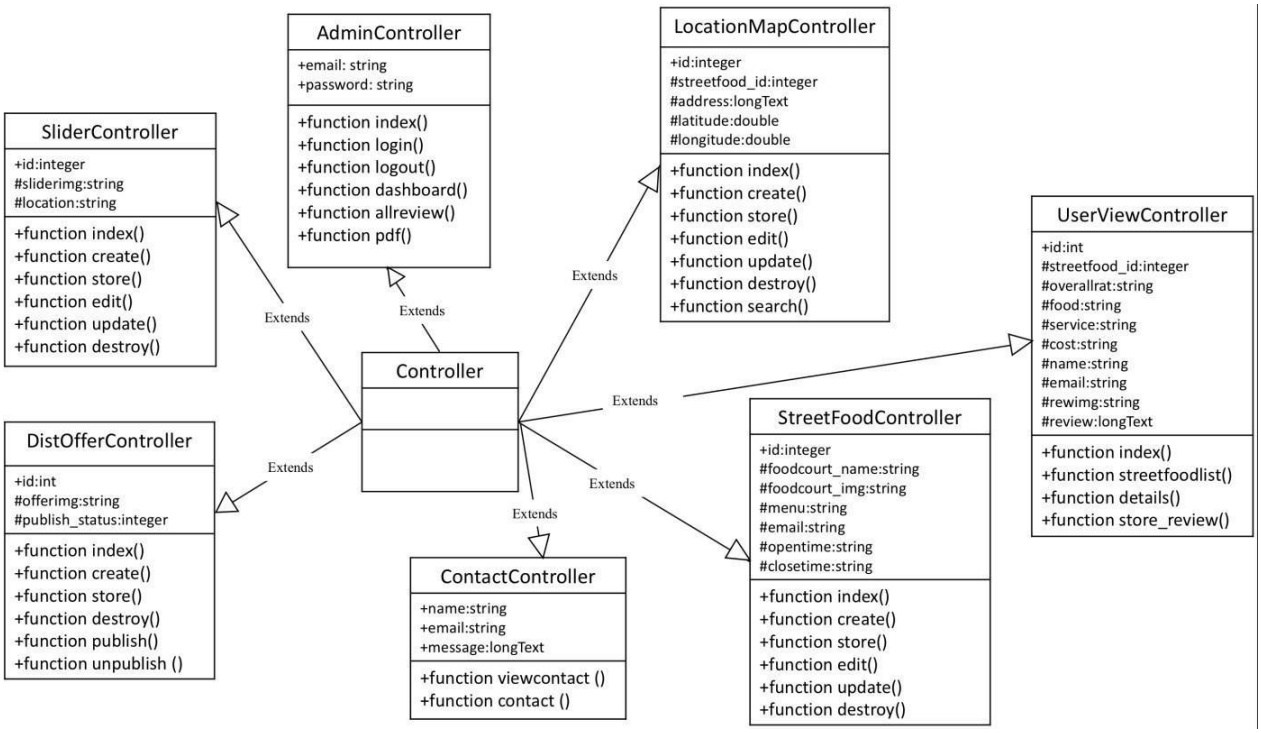

FIGURE: CLASS DIAGRAM

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4.3 ENTITY-RELATIONSHIP DIAGRAM:

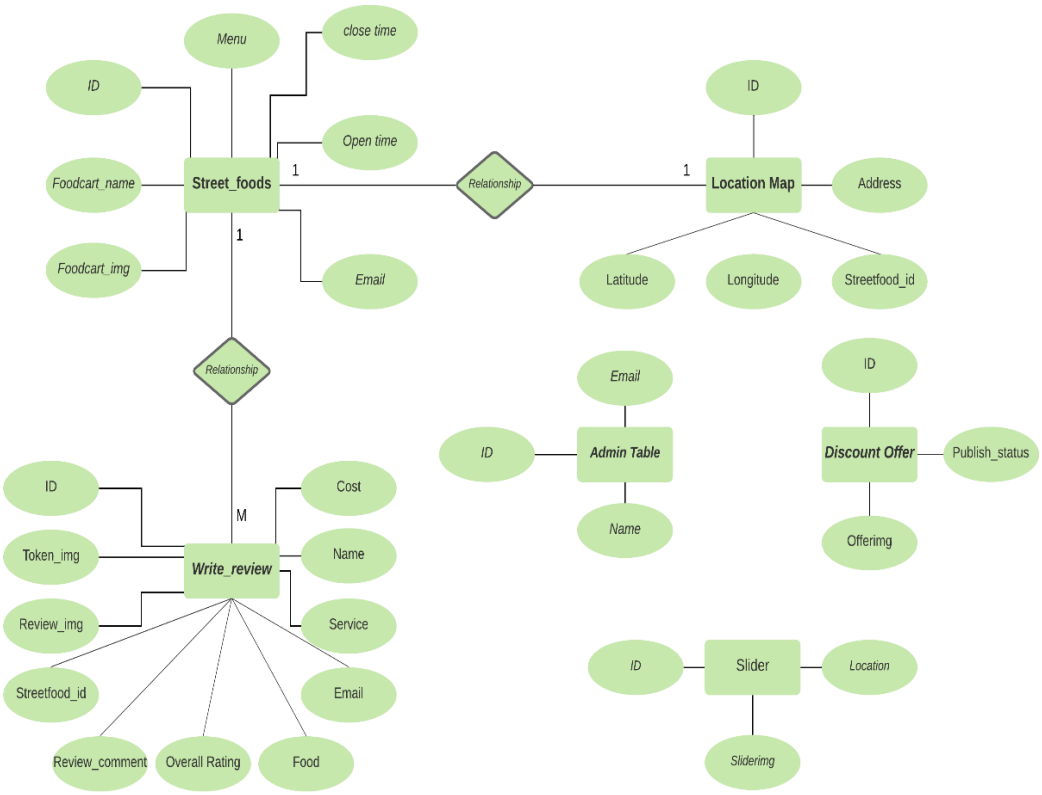

FIGURE: Entity–relationship Diagram

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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, and effective and secure.

5.1.1 Features to be tested

Features	Priority	Description
Login	2	User must be authenticated by login
Logout	1	Session must be flush after logout
Insert location map	3	Admin must be inserted location of street food properly
Insert discount offer	2	Discount offer post must be inserted properly
Insert slider show	2	Slider image must be inserted properly
Insert review	3	User must be gave review properly.
Insert street food	3	Street food cart name must be inserted properly

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

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5.2 Testing Strategies

To simplify the process of testi0ng 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.

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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

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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	

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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.

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5.4.1 Log In

Test case #1			**Test case name:** Log In		
System: StreetFood Finder			**Subsystem:** N/A		
Designed By: Imtiaz Ahmad			**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	imtiaz@admin.io	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 Street food

Test case #2			**Test case name:** Add Streetfood cart name	
System: StreetFood Finder			**Subsystem:** N/A	
Designed By: Imtiaz Ahmad			**Designed Date:** 08-Oct-2019	
Executed by:			**Executed Date:**	
Short description: Add streetfood cart name valid information				
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 providing streetfood cart data to the application, check the streetfood cart information is save or not. And check new streetfood cart account should ready.				

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5.4.3 Add Slider

Test case #3		**Test case name:** Add slider		
System: Streetfood Finder		**Subsystem:** N/A		
Designed By: Imtiaz Ahmad		**Designed Date:** 08-Oct-2019		
Executed by:		**Executed Date:**		
Short description: Admin add slider image for slider show in the website.				
Pre-conditions: • User must be authenticated by our application. • User type must be admin.				
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 providing slider image to the application, check the slider image is save or not. And check the image is correct.				

5.4.4 Add Discount Offer Image

Test case #4		**Test case name:** Add discount offer		
System: Streetfood Finder		**Subsystem:** N/A		
Designed By: Imtiaz Ahmad		**Designed Date:** 08-Oct-2019		
Executed by:		**Executed Date:**		
Short description: Admin add discount offer image for slider show in the website.				
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.		
Post-conditions: After add discount offer image, user can see discount offer about food cart.				

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5.4.5 Add Location Map

Test case #5		**Test case name:** Add Location Map		
System: Streetfood Finder		**Subsystem:** N/A		
Designed By: Imtiaz Ahmad		**Designed Date:** 08-Oct-2019		
Executed by:		**Executed Date:**		
Short description: Admin add location map for slider show in the website.				
Pre-conditions: • User must be authenticated by our application. • User type must be admin.				
Serial	**Action**	**Response**	**Pass/Fail**	**Comment**
1	All data is not provided	All field is required		
2	Data provided properly	Added new location.		
Post-conditions: After providing location to the application, check the location is save or not. And check the location is correct.				

5.4.6 User review

Test case #6		**Test case name:** Add user review		
System: Streetfood Finder		**Subsystem:** N/A		
Designed By: Imtiaz Ahmad		**Designed Date:** 08-Oct-2019		
Executed by:		**Executed Date:**		
Short description: User give a review for streetfood cart in the website.				
Pre-conditions: • User must be authenticated by our application. • User type must be user.				
Serial	**Action**	**Response**	**Pass/Fail**	**Comment**
1	If User review ratings 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.		
Post-conditions: After add discount offer image, user can see discount offer about food cart.				

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CHAPTER 6
USER MANUAL

6.1 Homepage

When a user enters on street food 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.

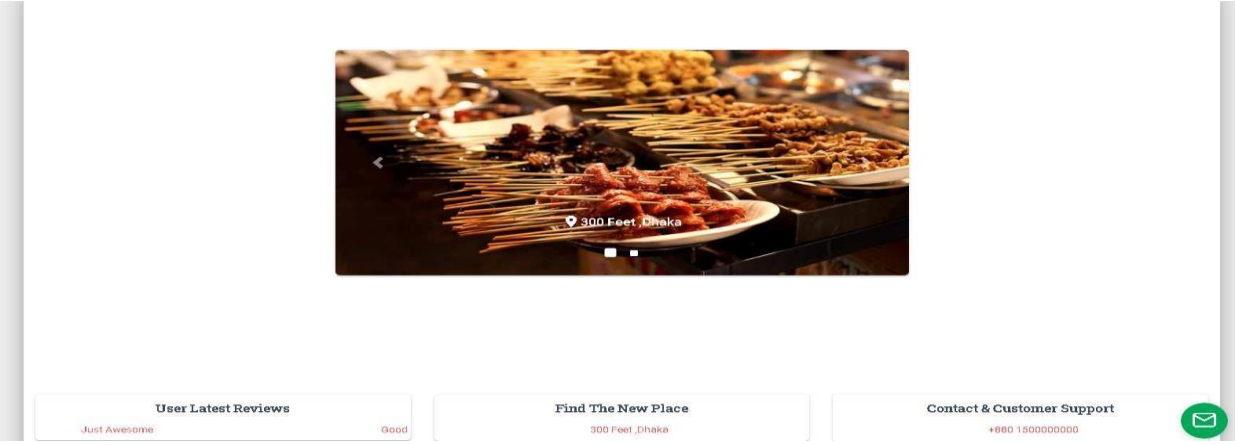

FIGURE: Homepage

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.

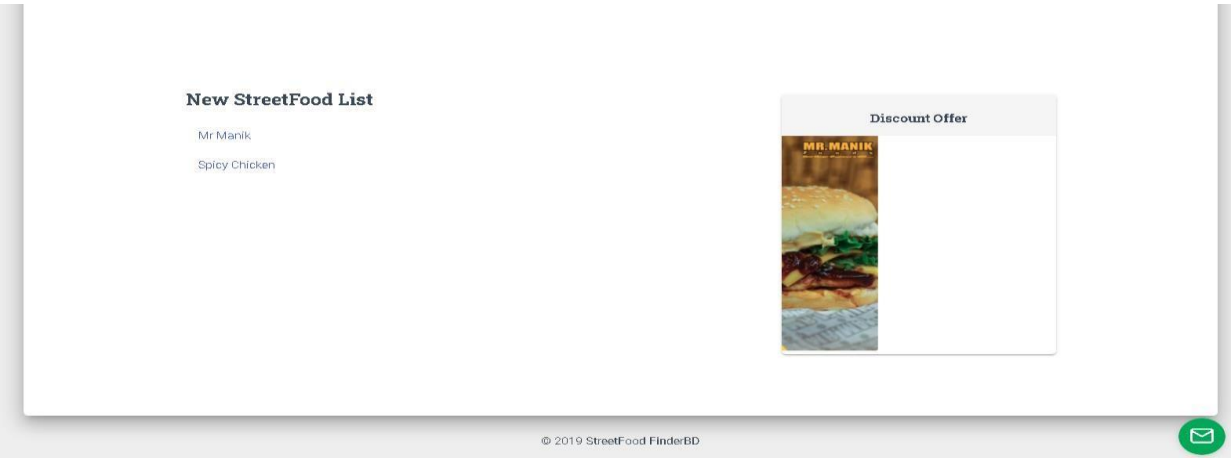

FIGURE: Homepage

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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.

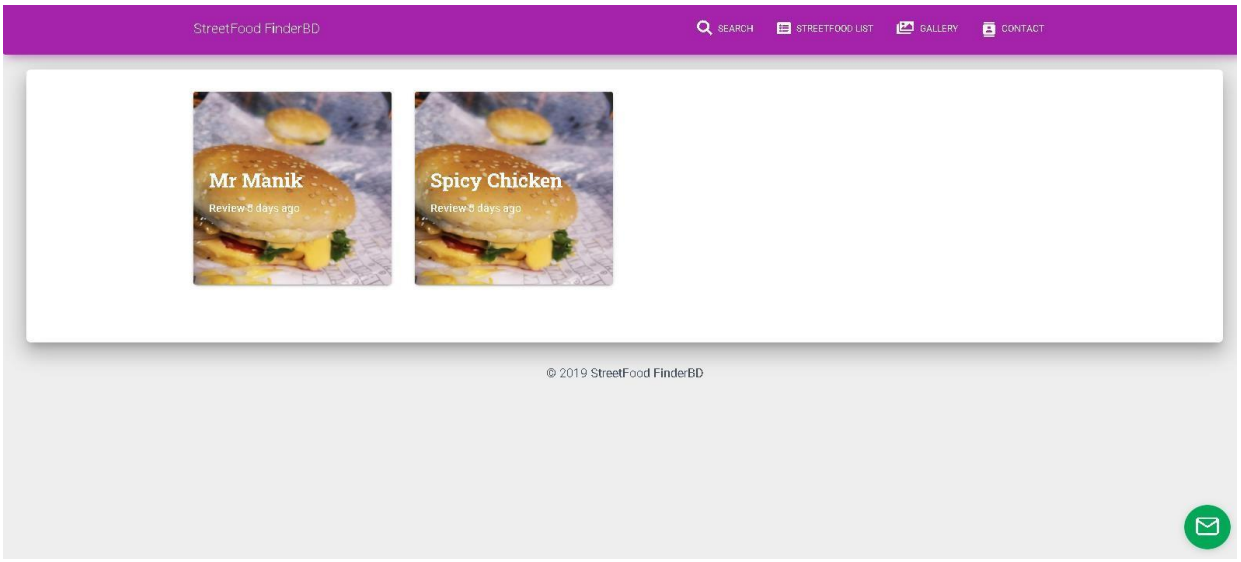

FIGURE: Gallery

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.

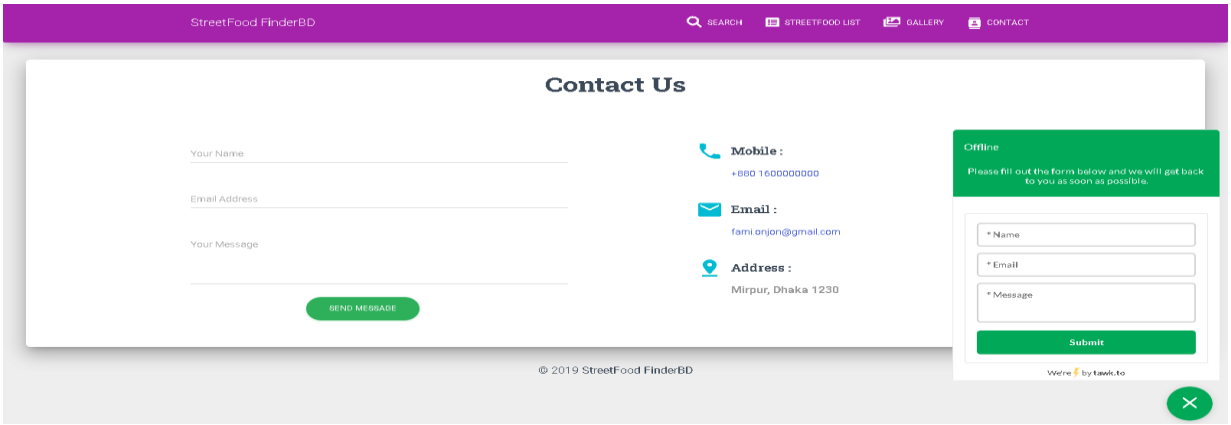

FIGURE: Contact

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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.

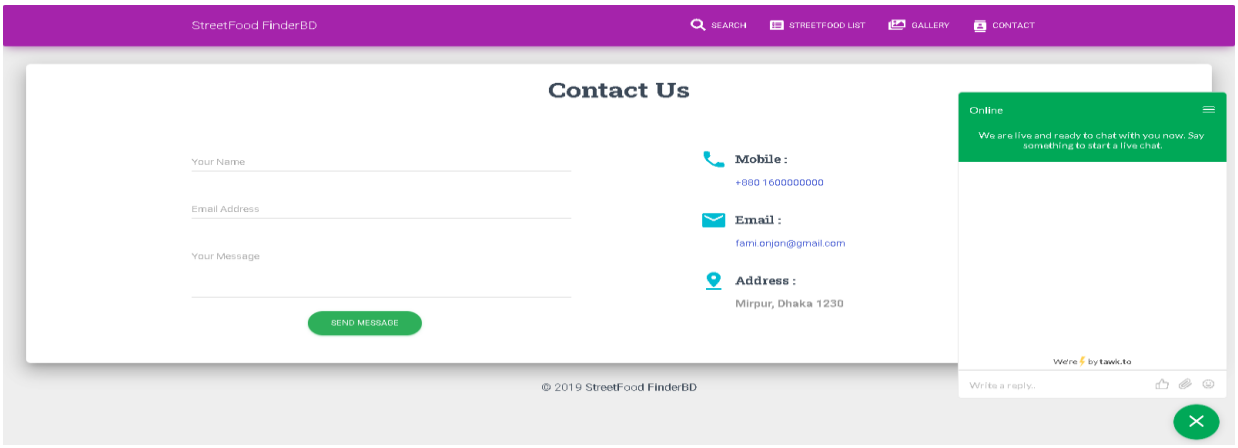

FIGURE: Live Chat

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.

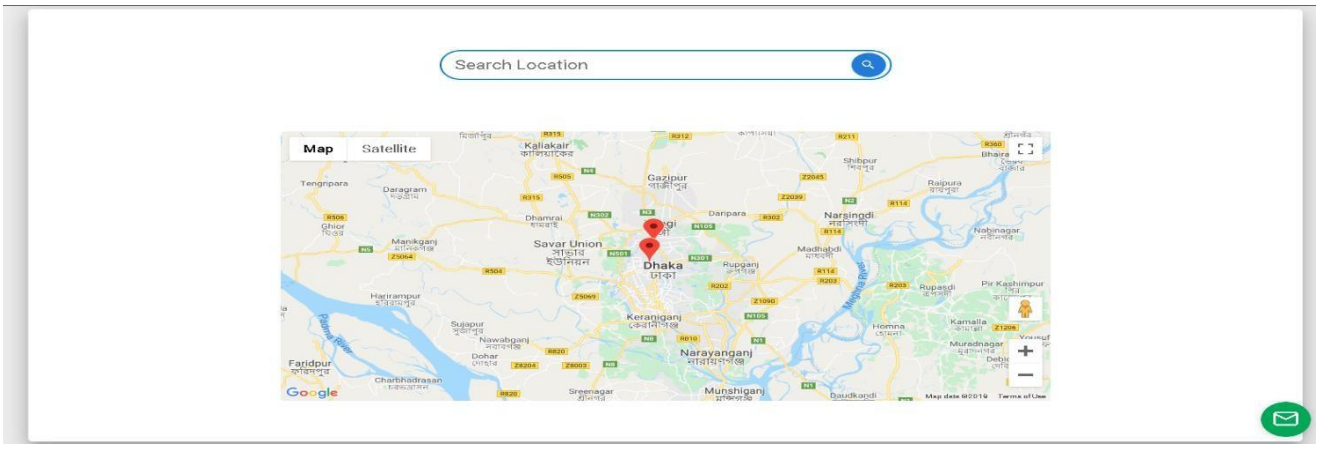

FIGURE: Search

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6.7 Street Food 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.

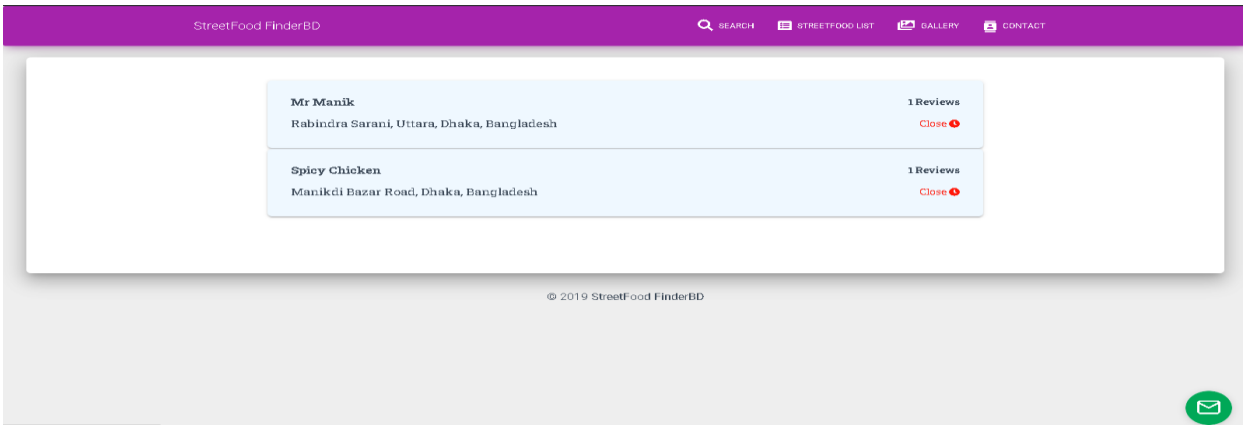

FIGURE: StreetFood List

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.

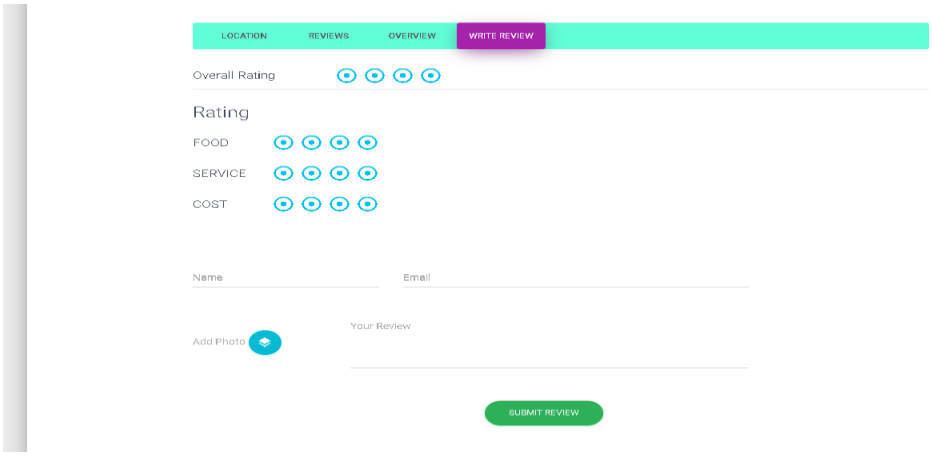

FIGURE: Write Review

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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.

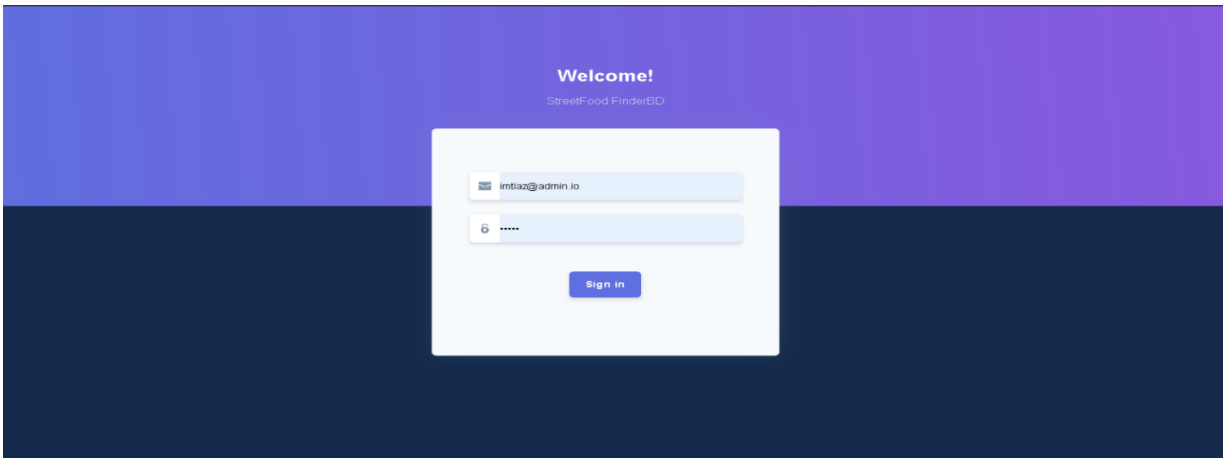

FIGURE: Log in(Admin)

6.10 Dashboard/Admin Panel

This is the dashboard page. When admin lick 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.

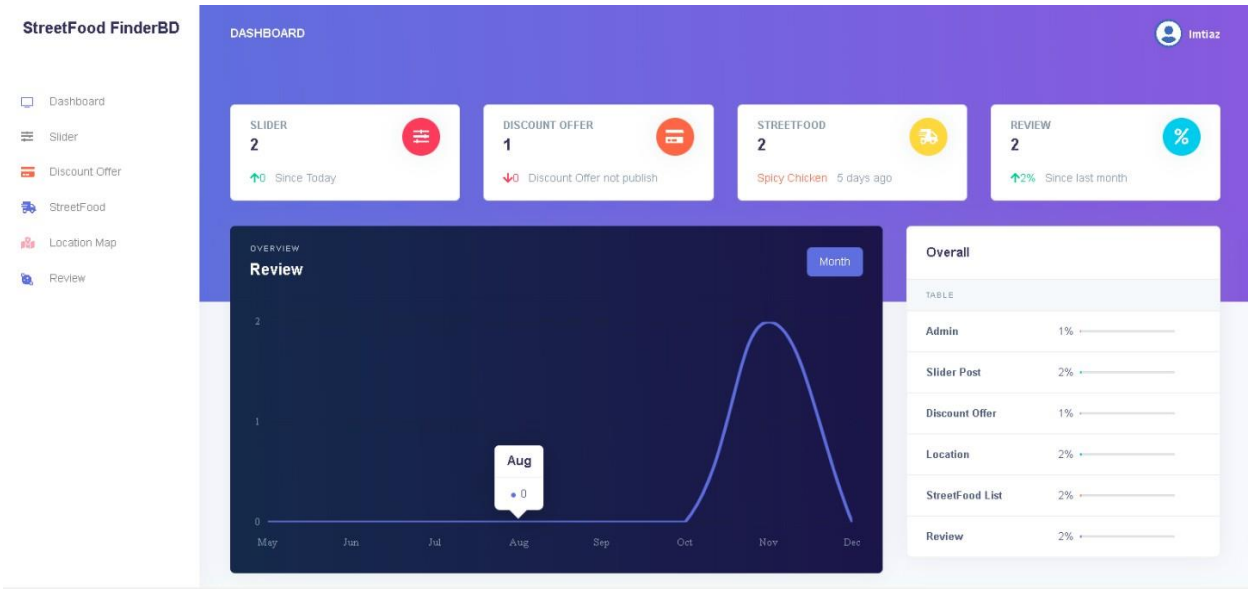

FIGURE: Dashboard

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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.

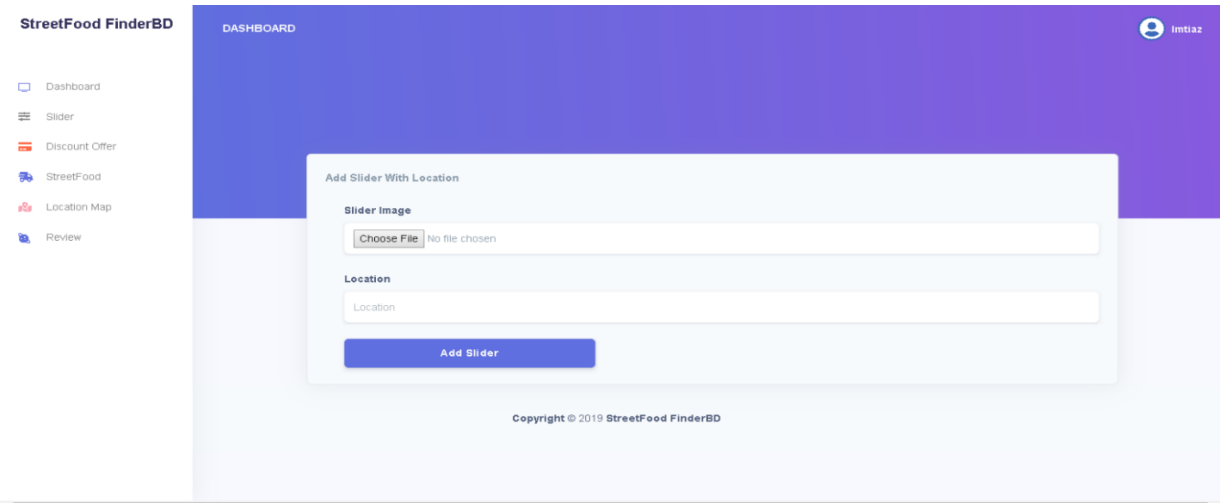

FIGURE: Add Slider

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.

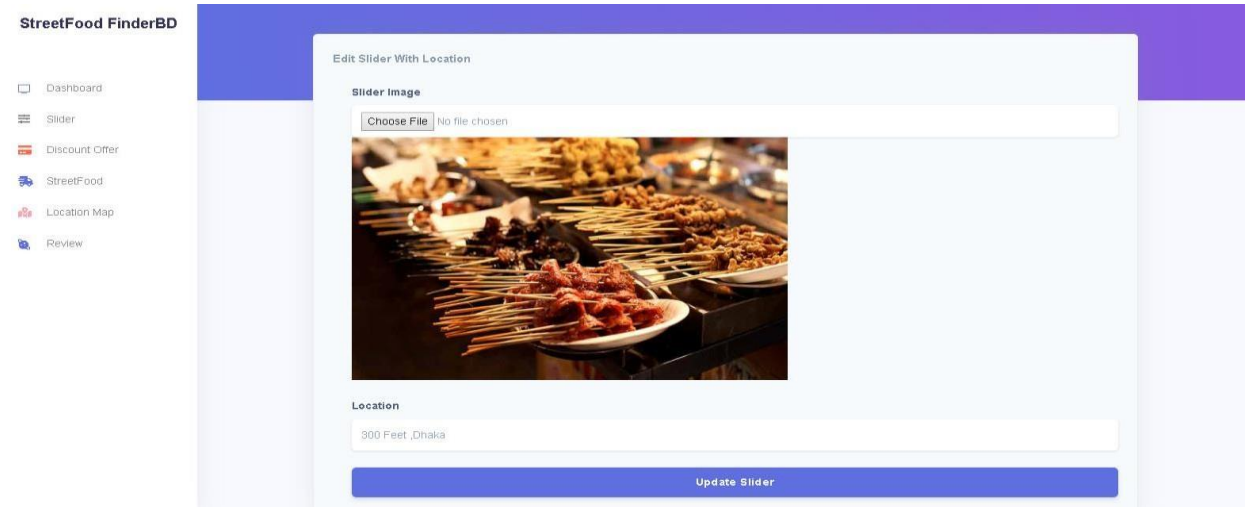

FIGURE: Edit Slider

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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.

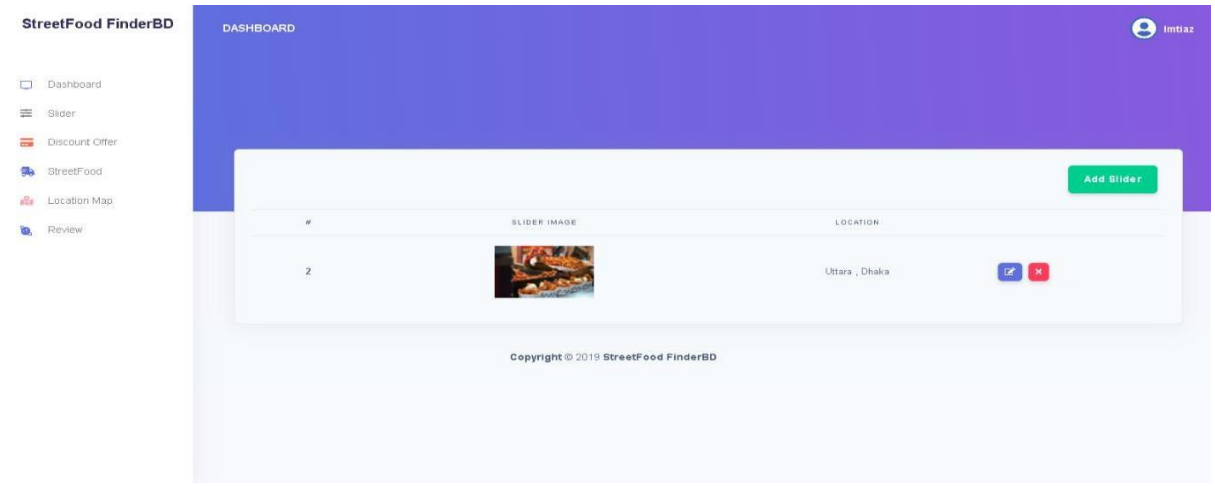

FIGURE: Delete Slider

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.

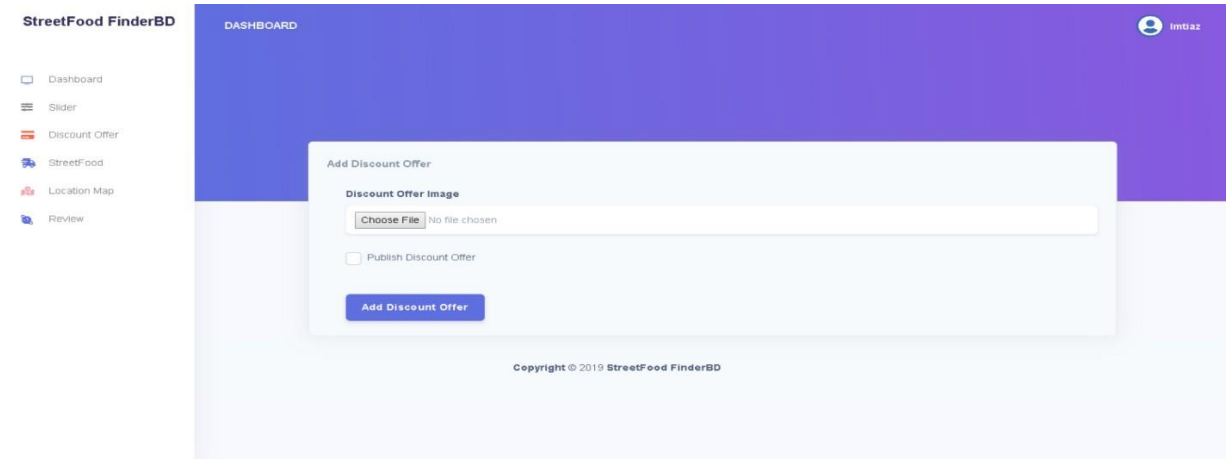

FIGURE: Add Discount Offer

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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.

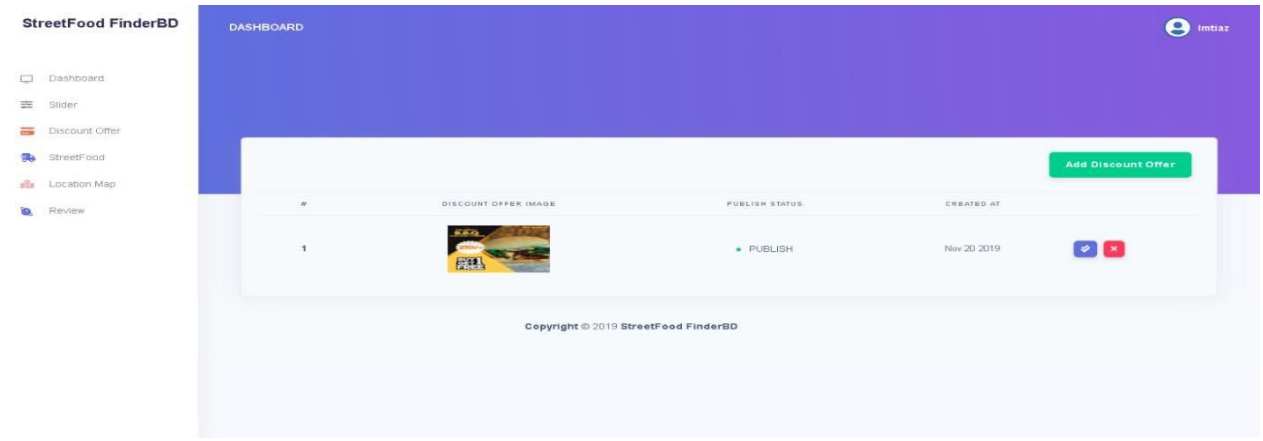

FIGURE: Publish Discount Offer

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.

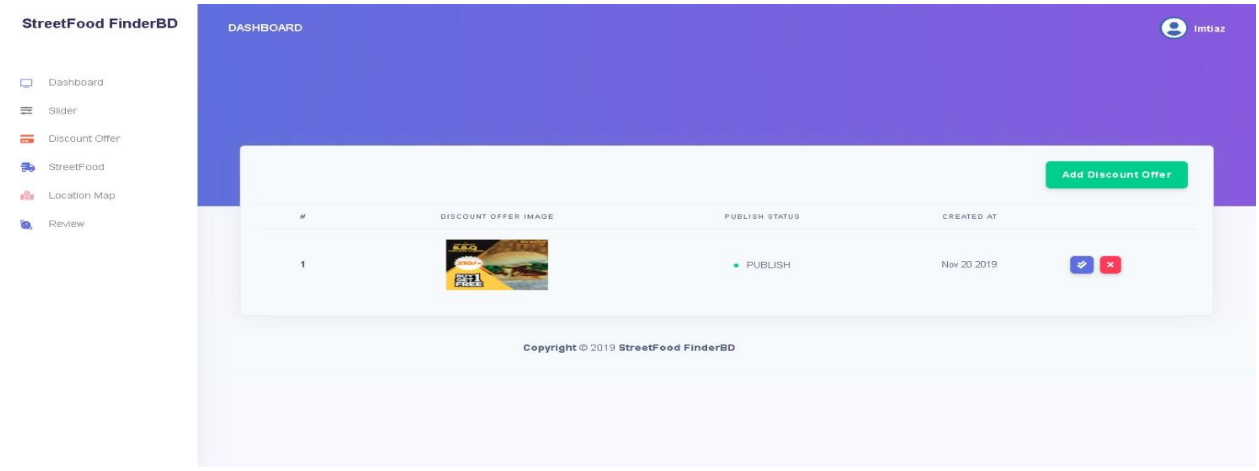

FIGURE: Delete Discount Offer

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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.

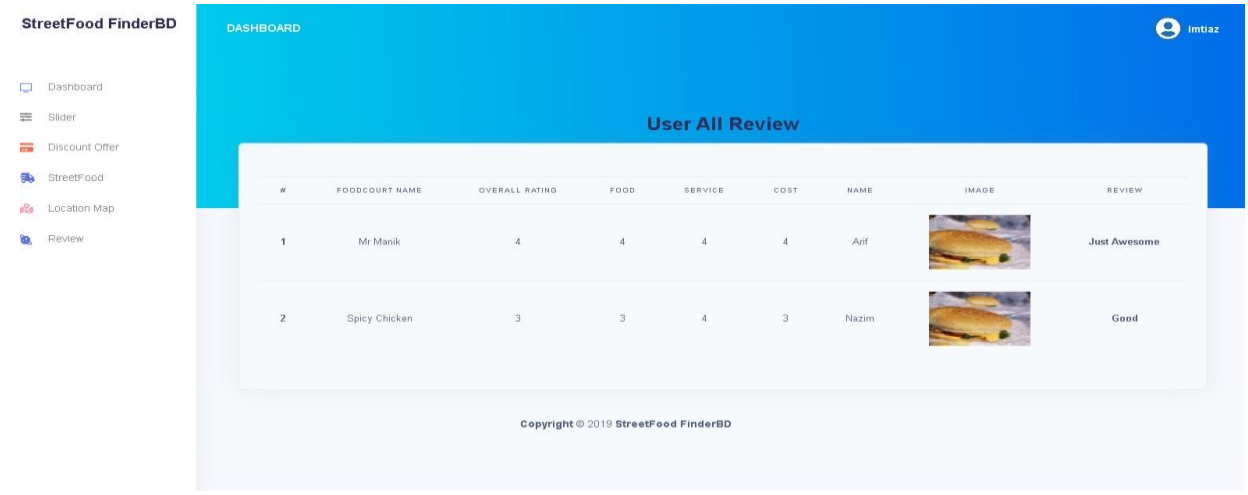

FIGURE: User Review Overview

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 food cart name, address and map. Admin fill up all of this information clicking on those option provided by the food cart owner and can add a location.

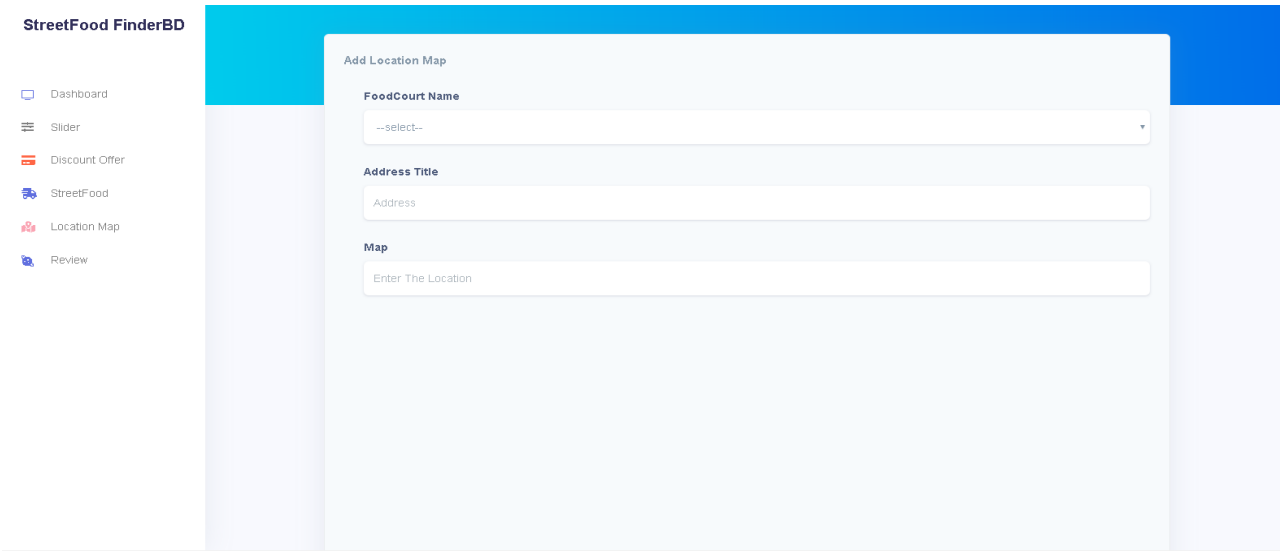

FIGURE: Add Location

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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'

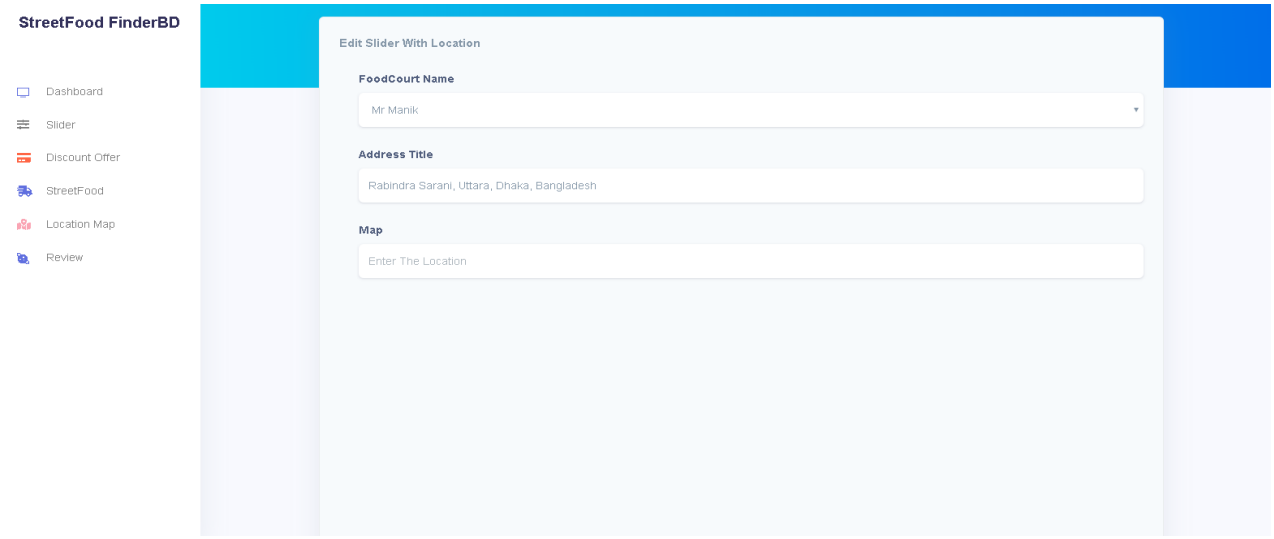

FIGURE: Edit Location

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 food cart location, then admin can delete the location by clicking on the Red Cross option.

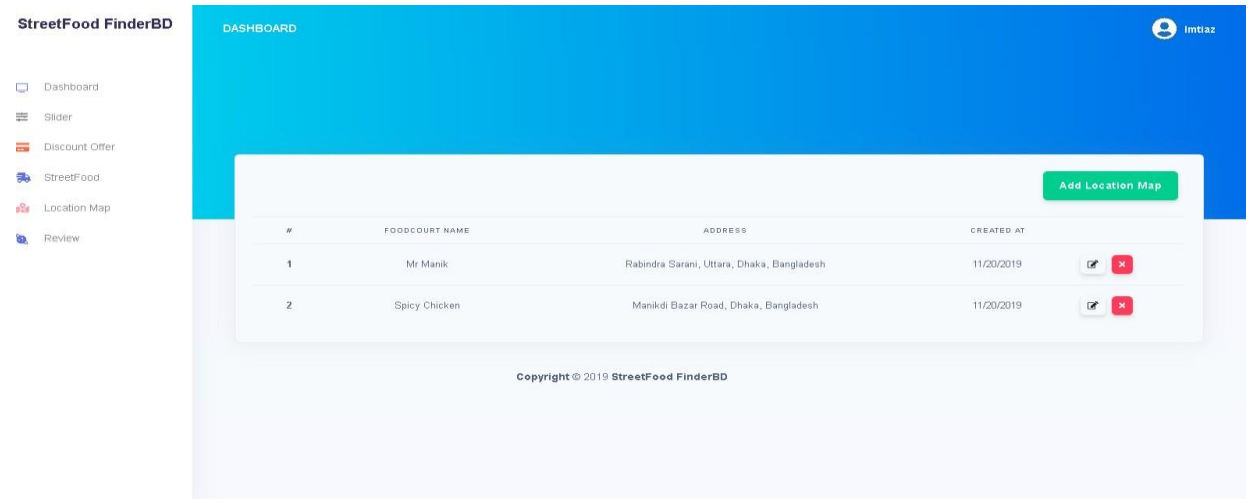

FIGURE: Delete Location

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6.21 Add Street Food

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.

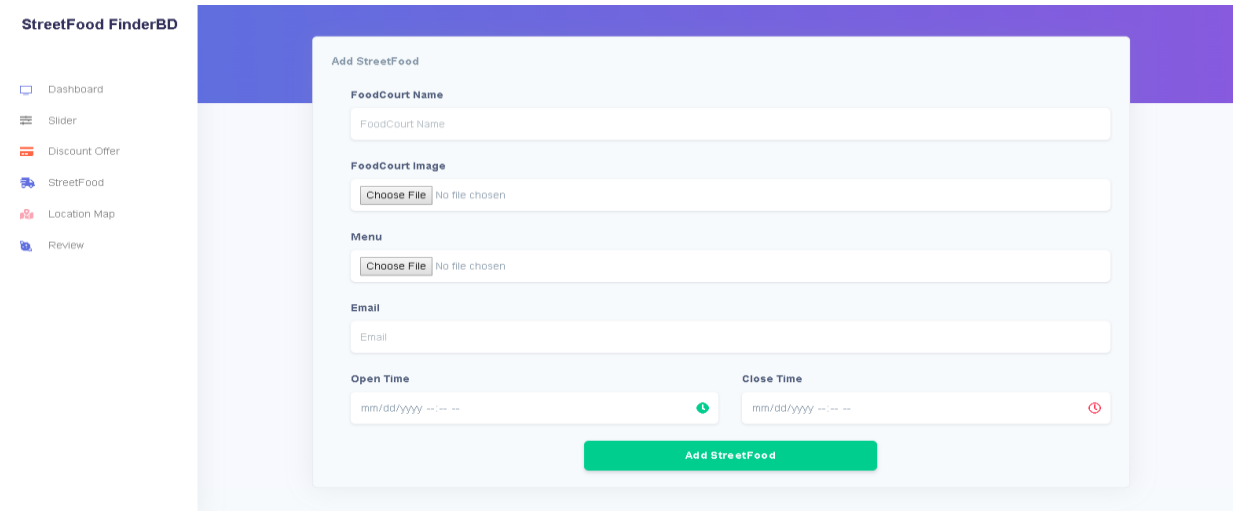

FIGURE: Add StreetFood

6.22 Edit Street Food

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

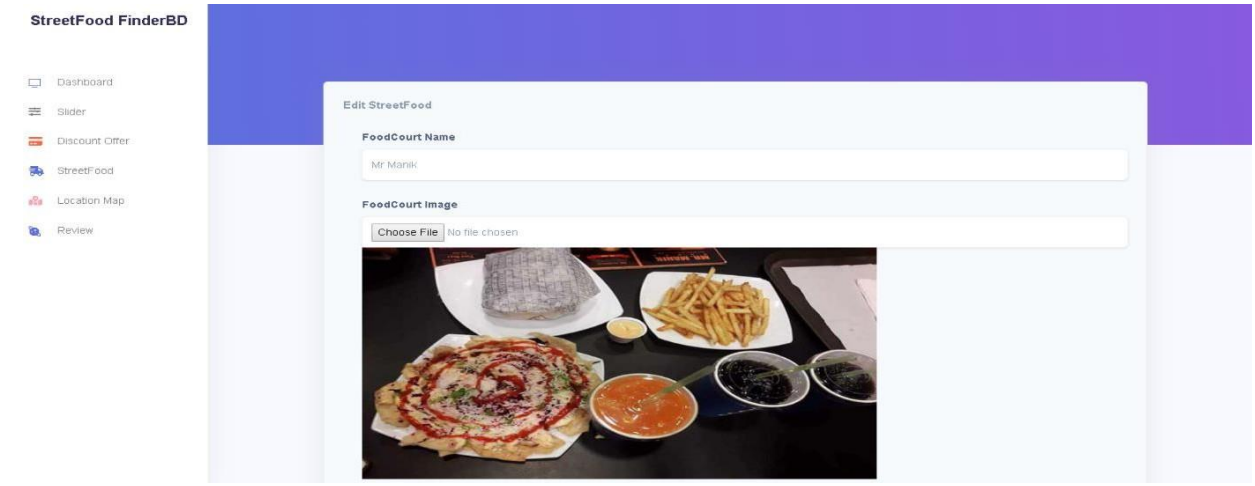

FIGURE: Edit StreetFood

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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.

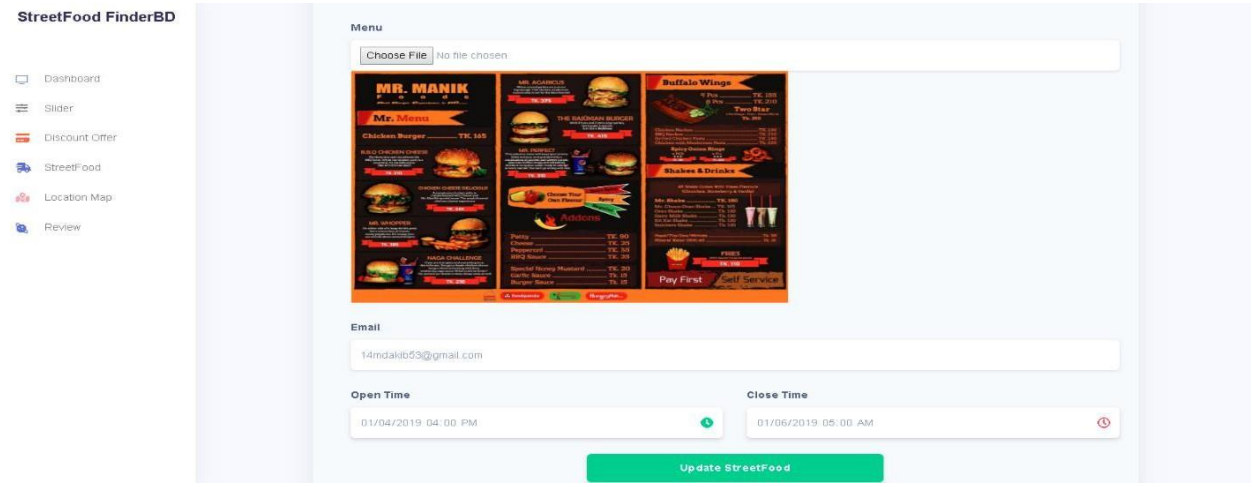

FIGURE: Edit StreetFood

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.

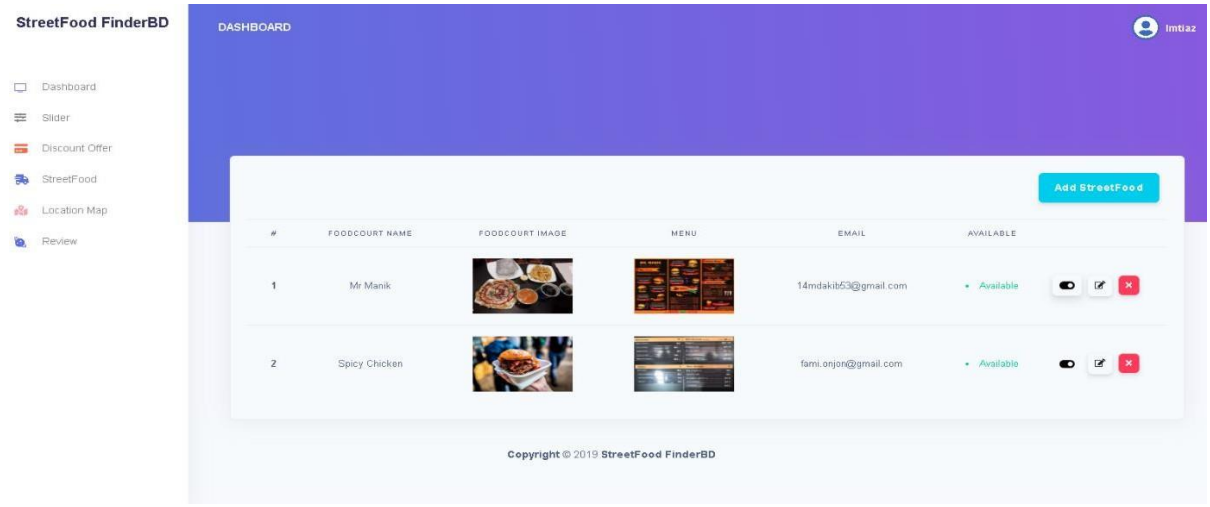

FIGURE: Delete StreetFood

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CHAPTER 7

CONCLUSION

7.1 Project Summary

My project name is Street Food Finder BD. This is a web application version project. In this project when user enter this website through URL, then the user can over view everything. Then a user can write overview comments. User can see the location on Google Map. He/She can search for the location on google map. User can rate the service, food quality, and cost. User can give a review comments on this site with a food image. User can see how many streetfood is available. User also see the discount offers, the closing time and opening time. Here, in gallery section user can find food image with the overview of others. If a user wants, he can contact with the admin. Owner are connected with the admin. Which location will be adding, which name will be adding, which offer will be adding or not, that's all are selected by the owners and admin just do according to owner choice. If in all this process owner get any problem, he can contact with the admin'.

7.2 Limitations

In my project there is some limitations. That is:

1. I cannot take food order from the users,
2. Online bill payment is not available.
3. Main limitation is this is not an app version project, this is a website project.
4. If you go to the internet or you are in an area that is not connected, then you will not be able to access your web application.

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 adding google map which indicate the exact location of a foodcart. 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.

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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 order option in this where the 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) Laravel, Available at <https://laravel.com/docs/6.x>
2) Stack overflow, Available at <https://stackoverflow.com/>
3) Sublime Text, Available at <https://www.sublimetext.com/3>
4) Laragon, Available at <https://laragon.org/>
5) Creative-Tim, Available at <https://www.creative-tim.com/>

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