

BILLY

A project submitted to

UKA TARSADIA UNIVERSITY

in partial fulfillment of the requirements for the degree of

Master of Science

in

Information Technology

for

5 Years Integrated M.Sc. (IT)

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(201906100110032, 201906100110015)

CERTIFICATE

This is to certify that **CHOKSI ABHISHEK PREMALKUMAR (201906100110032)** and **PATEL MEET DHIRAJBHAI (201906100110015)** have submitted a project entitled “**BILLY**” as the partial fulfillment for the award of the degree of Master of Science in Information Technology for 5 Years Integrated M.Sc. (IT) in 2022– 2023.

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Place: Uka Tarsadia University
Bardoli – 394350

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Table of Content

Chapters	Particulars	Page No.
1	Introduction	1-3
	1.1 Problem Definition	1
	1.2 Initial Requirement Document	1
	1.3 Project Objective	3
	1.4 Product Scope	3
2	Overall Description	4
	2.1 Product Perspective/ Environment Description	4
	2.1.1 Hardware Interface/ Hardware Specification	4
	2.1.2 Software Interface/ Software Specification	4
3	System Planning	4-5
	3.1 Software Engineering Model	4
4	System Specific Requirements	6-17
	4.1 Functional Requirement	6
	4.2 Non-functional Requirement	17
5	System Analysis	18-25
	5.1 Use case Diagram	18
	5.2 Activity Diagrams	22
	5.3 Sequence Diagrams	25
6	System Design	26-46
	6.1 Database Design	26
	6.1.1 Database Schema	26
	6.1.2 Data Dictionary	30
7	System Implementation	47-65
	7.1 Screenshots	47
8	Testing	66-72
	8.1 Test Cases	66
9	Future Enhancement	73
	Conclusion	73
	Bibliography	73

List of Figures

Figure no.	Figure Description	Page no.
5.1.1	Use Case Diagram for Billy Admin	18
5.1.2	Use Case Diagram for Billy Partner	19
5.1.3	Use Case Diagram for Billy Customer	20
5.1.4	Use Case Diagram for Billy Delivery Boy	21
5.2.1	Activity Diagram for User Registration	22
5.2.2	Activity Diagram for Menu	22
5.2.3	Activity Diagram for Checkout	23
5.2.4	Activity Diagram for Change Password	24
5.3.1	Sequence Diagram for Login Admin	25
5.3.2	Sequence Diagram for Add Menu	25
5.3.3	Sequence Diagram for Cancel Order by Partner	25

List of Tables

Table no.	Table Description	Page no.
6.1.2	Data Dictionary	30-46
8.1.1	Test Cases for Login	66-69
8.1.1.1	Authorized Admin	66
8.1.1.2	Authorized Delivery Boy	67
8.1.2	Test Cases for Manage Functionality	69-72
8.1.2.1	Manage Dish	69
8.1.2.2	Manage Delivery Boy	71

1. Introduction

1.1 Problem Definition

In earlier days, all restaurants can use manual ways to store their data and records so maintaining a large amount of data was difficult. They need full function software to maintain their day-to-day life transaction, order, cash transaction, and customer feedback. Because of large data, they need some features or systems which can maintain and store the data or records accurately. The Billy reduces manual work and improves the efficiency of the store. To remove all the disadvantages of conventional methods, a system is proposed which is a **Billy**.

1.2 Initial Requirement Document

Initial Requirement Document Billy

Title of the project	Billy
Stakeholders involved in capturing requirement	Owner, Project Guide, Customer, Partners
Techniques used for requirement capturing	Brainstorming
Name of the person along with a designation	-
Date	July 2022
Users of the system	Admin, Delivery Boy, Customer, Partners, Visitor
Version	3.0

Consolidated list of initial requirements:

Req #1	The system shall be allowed to authenticate to the admin, Partners, Customer, and Delivery Boy to register into the system.
Req #2	The admin shall be able to manage the Cuisines.
Req #3	The admin shall be able to approve or reject the restaurant after checking the restaurant documents.
Req #4	The admin shall be able to approve or reject the menu (category, item, added on, add extra).
Req #5	The admin shall be able to manage the delivery boy.
Req #6	The admin shall be able to manage the Customer.
Req #7	The admin shall be able to manage the Help.
Req #8	The admin shall be able to view all the customer orders.
Req #9	The admin shall be able to manage the questions.
Req #10	The admin shall be able to view the rating of a particular item or a restaurant.
Req #11	The admin shall be able to manage complaints.

Req #12	The admin shall be able to manage the referral amount.
Req #13	The partner shall be able to view orders details like (new orders, preparing orders, ready orders, and past orders)
Req #14	The partner shall be able to the manage category.
Req #15	The partner shall be able to the manage item.
Req #16	The partner shall be able to the manage added-on.
Req #17	The partner shall be able to the manage added extra.
Req #18	The partner shall be able to see their profile and also edit them.
Req #19	The partner shall be able to see menu history like (in-review, approved, canceled)
Req #20	The partner shall be able to manage the banner.
Req #21	The partner shall be able to manage the setting.
Req #22	The partner shall be able to communicate with Billy's admin using Help.
Req #23	The partner shall be able to see all the customer reviews.
Req #24	The partner shall be able to set the order status and also allocate the delivery boy.
Req #25	The partner shall be able to View the matric(report).
Req #26	The customer shall be able to view the cuisines and select the cuisines on the home page.
Req #27	The customer shall be able to view the latest offers banner and also view the top 10 products on the home page.
Req #28	The customer shall be able to view the cuisines name, Description, and cuisines banner on the Restaurant page.
Req #29	The customer shall be able to view all the restaurants based on the cuisines selected by the customer.
Req #30	The customer shall be able to filter the restaurant rating-wise.
Req #31	The customer shall be able to view items based on the category on the menu page.
Req #32	The customer shall be able to view and search (filter) the item price-wise, rating wise and item-type-wise (Veg/Non-Veg/Egg).
Req #33	The customer shall be able to customize the menu, like (adding or removing added-on, add extra, and variants).
Req #34	The customer shall be able to manage the cart by adding the item in the cart, updating the quantity, or removing the item and customizing (added-on, add extra, and variant).
Req #35	At checkout time customer change their shipping address and also add a new shipping address.
Req #36	The customer shall be able to make payment using one of the online payment gateways, through cash on delivery, or using the wallet.
Req #37	The system shall be able to generate the bill and the customer also downloads the bill in pdf format.
Req #38	The customer shall be able to cancel the order if the order status is pending.
Req #39	The customer shall be able to view the order status. (Like pending, cooking, on the way, delivered)

Req #40	The customer shall be able to get the mail for their order.
Req #41	The customer shall be able to view previous(past) order history and also download the pdf of that.
Req #42	The customer shall be able to give feedback.
Req #43	The customer also adds an item to the wish list and later they can view their like item and order it.
Req #44	The customer shall be able to edit their account.
Req #45	The customer shall be able to change their password and set a new password.
Req #46	The customer also has forgotten the password facility.
Req #47	The delivery boy shall be able to view the order detail and which order allocate to that delivery boy.
Req #48	The delivery boy shall be able to update the payment status if the payment is pending.
Req #49	The delivery boy shall be able to update the order status and set the order status delivered.
Req #50	<p>The system should be able to generate reports like:</p> <ol style="list-style-type: none"> 1. Categories of complaints <ol style="list-style-type: none"> a. Wrong Item b. Missing Item c. Quality & Quantity Issues d. Package Spillage e. Late Delivery 2. Accepted Orders 3. Canceled Orders <p>Status of all customer's orders (Day/Date, Weekly, Monthly, Yearly)</p>

1.3 Project Objective

- To reduce the cost of the business operation.
- To improve the customer service.
- To simplify the workflow.
- To save the environment.
- This will be adding on benefit for the customers as it will save their time, plus it adds on for the owner also.

1.4 Product Scope

The user first registration into the system and then the customer can buy food from the billy. The system will deliver food only to Bardoli city. The scope of this system is confined to one city and involves multiple customers and partners. This system is a multi-restaurants system, allowing customers to buy and browse items from various restaurants.

2. Overall Description

2.1 Product Perspective/Environment Description

2.1.1 Hardware Interface/Hardware Specification

CPU:	Intel Core Pentium
HDD Space:	120 GB HDD
RAM:	4 GB RAM

2.1.2 Software Interface/Software Specification

Operating System:	Multi-Platform (Window, IOS, Linux, Web Server)
Front-end Technology:	React JS, Flutter, HTML, CSS, Bootstrap, JavaScript, jQuery
Back-end Technology:	Node JS, Express JS, MongoDB
Other Tool:	Visual Studio Code, MongoDB Compass, Postman, Android Studio, Android Virtual Device, XCode, IOS Simulator

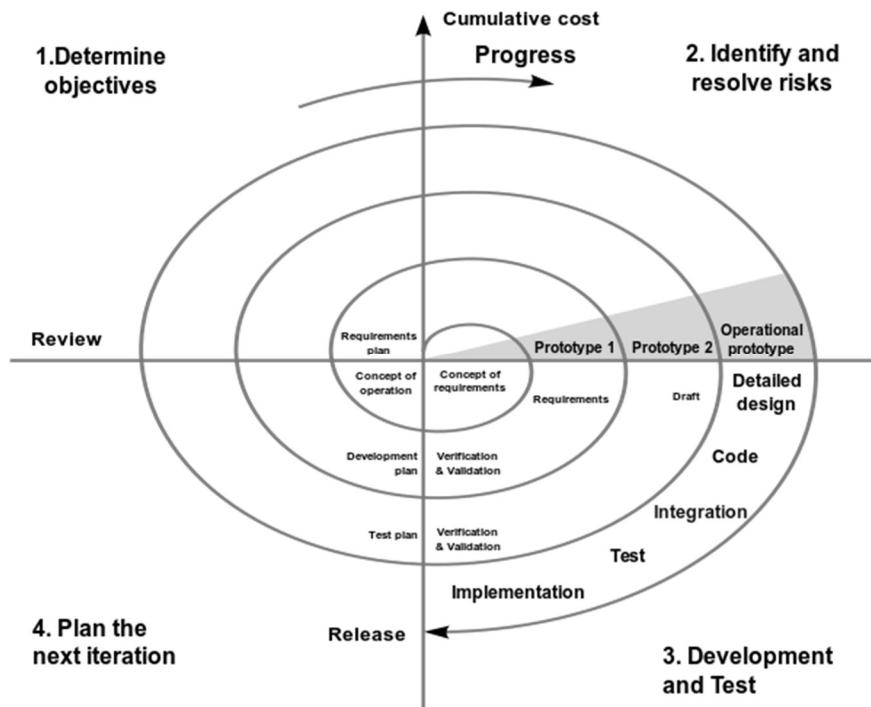
3. System Planning

3.1 Software Engineering Model

This system follows **Spiral Model**.

- Why do we use Spiral Model?**

- An evolutionary software process model that couples the iterative nature of prototyping with the controlled and systematic aspects of the Waterfall Model.
- Provides the potential for rapid development of an increasingly more complex version of the Software.
- Using this, Software is developed in a series of evolutionary releases.
- During early iteration, the release may be a paper model or prototype.
- During later iterations, an increasingly more complete version of the engineered system is produced.
- Each of the framework activities represents one segment of the Spiral Model.
- The spiral work in a clockwise direction beginning at the center.



[Figure: Spiral Model]

Advantage of Spiral Model:

The advantage of using the spiral model is varied. Its design flexibility allows changes to be implemented at several stages of the project.

Provides a working model to the user early in the process, enabling early assessment and increasing the user's confidence.

The developer gains experience and insight by developing prototyping thereby resulting in better implementation of requirements.

4. System Specific Requirements

4.1 Functional Requirement

4.1.1. Functional requirement for Manage User login

RN	Description	Comments
FR1	This Module will be managed by Admin, Partner, Delivery Boy, and Customer.	User Login Page
FR2	This Module accepts the password which will be created by the user.	User Login Page
FR3	This Module also provides the functionality of forgot passwords for changing user passwords.	User Login Page

4.1.2. Functional requirement for Manage Cuisines

RN	Description	Comments
FR1	This Module will be managed by Admin.	Cuisines Page
FR2	The system will assign a unique id (Cuisines ID) to each Cuisines.	Add Cuisines Page
FR3	Whenever any new Cuisines arrives, the admin is allowed to record the following details of the Cuisines Like ... Cuisines name, Cuisines image, Cuisines Description and Cuisines Banner.	Add Cuisines Page
FR4	To manage this module, the admin will be able to perform the following operations: ➤ Add new Cuisines ➤ Update an existing Cuisines	Add Cuisines Page Update Cuisines Page
FR5	To manage this module, the admin will be able to perform the following operations: ➤ Active/De-active Cuisines ➤ View/Search Cuisines	View/Search and Active/Deactivate Cuisines Page

4.1.3. Functional Requirement for Manage Restaurant

RN	Description	Comments
FR1	This Module will be managed by Partner.	Restaurant Page
FR2	The system will assign a unique id (Restaurant ID) to each Restaurant.	Add Restaurant Page

FR3	Whenever any new Item arrives, the Partner is allowed to record the following details of the Restaurant Like ... Restaurant name, Restaurant image, Restaurant Address, Restaurant City, Restaurant Contact, Owner name, Owner Contact, owner Email Id, Owner Password.	Add Restaurant Page
FR4	After restaurant verified by admin, the Partner is allowed to record the following details of the Restaurant Like ... Documents (GST Certificate, FSSAI Certificate, Sample Bill, Sample Menu, Owner Pan card), Restaurant timing, cuisines id.	Restaurant Registration Page
FR4	To manage this module, the Partner will be able to perform the following operations: ➤ Add new Item ➤ Update an existing Item	Add Restaurant Page Update Restaurant Page
FR5	To manage this module, the Partner will be able to perform the following operations: ➤ Active/De-active Item ➤ View/Search Item	View Search Active/Deactivate Restaurant Page

4.1.4. Function requirement for Manage Category

RN	Description	Comments
FR1	This Module will be managed by Partner.	Category Page
FR2	The system will assign a unique id (category ID) to each category.	Add category Page
FR3	Whenever any new Category arrives, the Partner is allowed to record the following details of the Category Like ... Category name.	Add category Page
FR4	To manage this module, the Partner will be able to perform the following operations: ➤ Add new Category ➤ Update an existing Category ➤ Delete an existing Category	Add category Page Update category Page Delete category Page
FR5	To manage this module, the Partner will be able to perform the following operations: ➤ Active/De-active Category ➤ View/Search Category	View/Search and Active/Deactivate category Page

4.1.5. Functional Requirement for Manage Added On

RN	Description	Comments
FR1	This Module will be managed by Partner.	Added-on Page
FR2	The system will assign a unique id (added-on id) to each added-on.	Add Added-on Page
FR3	Whenever any new added-on arrives, the partner is allowed to record the following details of the added-on Like ... Added-on id with its restaurant id, Name, Type, Price, Additional Price, Final Price	Add Added-on Page
FR4	To manage this module, the Partner will be able to perform the following operations: ➤ Add new Added-on ➤ Update an existing Added-on	Add Added-on Page Update Added-on Page
FR4	To manage this module, the Partner will be able to perform the following operations: ➤ Active/De-active Added-on ➤ View/Search Added-on ➤ Delete Added-on	View/Search and Active/Deactivate Added-on Page Delete Added-on Page
FR5	The customer will be able to: ➤ View Added On	Customize Item Page

4.1.6. Functional Requirement for Manage Add Extra

RN	Description	Comments
FR1	This Module will be managed by Partner.	Add-Extra Page
FR2	The system will assign a unique id (add-extra id) to each add-extra.	Add Add-Extra Page
FR3	Whenever any new add-extra arrives, the partner is allowed to record the following details of the add-extra Like ...	Add Add-Extra Page

	Add extra id with its restaurant id, Name, Type, Price, Additional Price, Final Price	
FR4	To manage this module, the Partner will be able to perform the following operations: ➤ Add new Add-Extra ➤ Update an existing Add-Extra	Add Page Update Add-Extra Page
FR4	To manage this module, the Partner will be able to perform the following operations: ➤ Active/De-active Add-Extra ➤ View/Search Add-Extra ➤ Delete Add-Extra	View/Search and Active/Deactivate Add-Extra Page Delete Add-Extra Page
FR5	The customer will be able to: ➤ View Add-Extra	Customize Item Page

4.1.7. Functional Requirement for Manage Item

RN	Description	Comments
FR1	This Module will be managed by Partner.	Item Page
FR2	The system will assign a unique id (Item ID) to each item.	Add Item Page
FR3	Whenever any new Item arrives, the Partner is allowed to record the following details of the Item Like ... Item id with its Category id, Item name, Item type, Item description, Item image, Add extra, Added on.	Add Item Page
FR4	To manage this module, the Partner will be able to perform the following operations: ➤ Add new Item ➤ Update an existing Item	Add Item Page Update Item Page
FR5	To manage this module, the Partner will be able to perform the following operations: ➤ Active/De-active Item ➤ View/Search Item	View/Search and Active/Deactivate Item Page
FR6	The customer will be able to: ➤ View/Search Item (Filter wise)	Customer View Item Page

4.1.8. Functional Requirement for Manage Variant

RN	Description	Comments
FR1	This Module will be managed by Partner.	Variant Page
FR2	The system will assign a unique id (variant id) to each variant.	Add Variant Page
FR3	Whenever any new variant arrives, the partner is allowed to record the following details of the variant Like ... Variant id with its Item id, Name, UOM, Price, Sales Price	Add Variant Page
FR4	To manage this module, the Partner will be able to perform the following operations: ➤ Add new Variant ➤ Update an existing Variant	Add Variant Page Update Variant Page
FR4	To manage this module, the Partner will be able to perform the following operations: ➤ Active/De-active Variant ➤ View/Search Variant ➤ Delete Variant	View/Search and Active/Deactivate Variant Page Delete Variant Page
FR5	The customer will be able to: ➤ View Variant	Customize Item Page

4.1.9. Functional requirement for Manage Banner

RN	Description	Comments
FR1	This Module will be managed by the Partner.	Banner Page
FR2	The system will assign a unique id (Banner ID) to each Banner.	Add Banner Page
FR3	Whenever any new banner arrives, the Partner is allowed to record the following details of the Banner Like ... Banner image, Banner Description	Add Banner Page
FR4	To manage this module, the partner will be able to perform the following operations Like: ➤ Add new banner ➤ Update an existing Banner	Add Banner Page Update Banner Page
FR4	To manage this module, the partner will be able to perform the following operations Like: ➤ Active/De-active Banner ➤ Delete Banner	Active/Deactivate Banner Page

		Delete Banner Page
FR5	The customer and Partner will be able to: ➤ View Banner	Home Page Banner Page

4.1.10. Functional requirement for Manage Customer

RN	Description	Comments
FR1	This Module will be managed by Admin and the customer.	Customer Page
FR2	The system will assign a unique id (Customer ID) to each Customer.	Customer Registration Page
FR3	Whenever a new Customer Register then the system records the following details of the customer Like ... Customer Name, Email id, password, mobile No, Billing Address	Customer Registration Page
FR4	To manage this module, the admin will be able to perform the following operations: ➤ Active/De-active Customer ➤ View/Search Customer	View Search Active/Deactivate Customer Page
FR5	The customer will be able to: ➤ Registration ➤ Update an existing Account ➤ Change password	Customer Registration Page Customer account Page

4.1.11. Functional Requirement for Manage Wishlist

RN	Description	Comments
FR1	This Module will be managed by customer.	Wishlist Page
FR2	The system will assign a unique id (wish list ID) to each wish list customer id and item id.	Add Wishlist Page
FR3	The customer can add there like item in wish list.	Add Wishlist Page
FR4	To manage this module, the customer will be able to perform the following operations: ➤ Add new wish list ➤ View/Search wish list ➤ Delete wish list	Add Wishlist Page View/Search Wishlist Page Delete Wishlist Page

4.1.12. Functional requirement for Manage Cart

RN	Description	Comments
FR1	This Module will be managed by the Customer.	Cart Page
FR2	The system will assign a unique id (Cart ID) to each Cart.	Cart Page
FR3	Whenever the Customer adds Item to the cart then the system records the following details of the Cart Like ... Cart Id with its customer Id, Item Id, Variant Id and Qty.	Cart Page
FR4	To manage this module, the Customer will be able to perform the following operations Like: ➤ Add new menu ➤ Update an existing Cart ➤ Empty Cart	Cart Page

4.1.13. Functional Requirement for Billing Address management

RN	Description	Comments
FR1	This Module will be managed by the customer.	Billing Address Page
FR2	The system will assign a unique id (Billing Address ID) to each Billing Address.	Add Billing Address Page
FR3	Whenever any new Billing address arrives, the customer is allowed to record the following details of the Billing address Like ... Title, Address, Country, State, City, Pincode.	Add Billing Address Page
FR4	To manage this module, the customer will be able to perform the following operations Like: ➤ Add new Billing Address ➤ Update an existing Billing Address	Add Billing Address Page Update Billing Address Page

4.1.14. Functional requirement for Manage Customer Order Management

RN	Description	Comments
FR1	This Module will be managed by the Customer, Admin, Partner.	Order Page
FR2	The system will assign a unique id (Order ID) to each Order.	Order Page
FR3	The System will generate a bill for each Customer order.	Order Page

FR4	To manage this module, the Partner will be able to perform the following operations: ➤ Update Order Status ➤ View/Search Order ➤ Allocate Delivery Boy ➤ Download Invoice	Order Invoice Page View Order Page
FR5	To manage this module, the admin will be able to perform the following operations: ➤ View/Search Order ➤ Download Invoice	Order Page
FR6	The customer will be able to: ➤ View Order ➤ Download Invoice	Customer View Order Page

4.1.15. Function Requirement for Manage Delivery Boy

RN	Description	Comments
FR1	This Module will be managed by Admin.	Delivery Boy Page
FR2	The system will assign a unique id (Delivery Boy ID) to each Delivery Boy.	Add Delivery Boy Page
FR3	Whenever any new Delivery Boy arrives, the admin is allowed to record the following details of the Delivery Boy Like... Delivery Boy name, Mobile No, Password.	Add Delivery Boy Page
FR4	To manage this module, the admin will be able to perform the following operations: ➤ Add new Delivery Boy ➤ Update an existing Delivery Boy	Add Delivery Boy Page Update Delivery Boy Page
FR5	To manage this module, the admin will be able to perform the following operations: ➤ Active/De-active Delivery Boy ➤ View/Search Delivery Boy	View/Search and Active/Deactivate Delivery Boy Page

4.1.16. Functional Requirement for Report management

RN	Description	Comments
FR1	This Module will be managed by Admin and Partner.	Report Page
FR2	The System will be generating the report.	Report Page

FR3	The Partner will be able to: 1. Accepted Orders 2. Cancelled Orders Status of all customer's orders (Day/Date, Weekly, Monthly, Yearly)	Report Page
FR4	The admin will be able to: 1. Categories of complaints a. Wrong Item b. Missing Item c. Quality & Quantity Issues d. Package Spillage e. Late Delivery 2. Accepted Orders 3. Cancelled Orders Status of all customer's orders (Day/Date, Weekly, Monthly, Yearly)	Report Page

4.1.17. Functional Requirement for Manage Get Touch (Help)

RN	Description	Comments
FR1	This Module will be managed by Partner.	Get Touch Page
FR2	The system will assign a unique id (Get Touch ID) to each Get Touch.	Add Get Touch Page
FR3	Whenever the partner Add get touch, the partner is allowed to record the following details of the Setting Like... Partner id with Subject, Message.	Add Get Touch Page
FR4	To manage this module, the Partner will be able to perform the following operations: ➤ Add new Get Touch	Add Get Touch Page
FR5	To manage this module, the admin will be able to perform the following operations: ➤ View Get Touch	View/Search Get Touch Page

4.1.18. Function Requirement for Manage Setting (Partner Setting)

RN	Description	Comments
FR1	This Module will be managed by Partner.	Setting Page
FR2	The system will assign a unique id (Setting ID) to each Setting.	Add Setting Page

FR3	Whenever the partner updates the setting, the partner is allowed to record the following details of the Setting Like... Cart Min Price, Cart Min Price Message, Delivery charge and GST.	Add Setting Page
FR4	To manage this module, the partner will be able to perform the following operations: ➤ Add new Setting ➤ Update an existing Setting	Add Setting Page Update Setting Page

4.1.19. Functional Requirement for Manage Question

RN	Description	Comments
FR1	This Module will be managed by admin.	Question Page
FR2	The system will assign a unique id (question id) to each question.	Add Question Page
FR3	Whenever any new question arrives, the admin is allowed to record the following details of the question Like ... Questions	Add Question Page
FR4	To manage this module, the admin will be able to perform the following operations: ➤ Add new Question ➤ Update an existing Question	Add Question Page Update Question Page
FR4	To manage this module, the admin will be able to perform the following operations: ➤ Active/De-active question ➤ View/Search question	View/Search and Active/Deactivate Question Page

4.1.20. Functional Requirement for Manage Complain

RN	Description	Comments
FR1	This Module will be managed by Customer.	Complain page
FR2	The system will assign a unique id (complain id) to each complain.	Add Complain Page

FR3	Whenever any new complain arrives, the Customer is allowed to record the following details of the complain Like ... Complain id with its User id, Question Id and Message,	Add Complain Page
FR4	To manage this module, the customer will be able to perform the following operations: ➤ Add new Complain	Add Complain Page
FR4	To manage this module, the admin will be able to perform the following operations: ➤ View/Search Complain	View/Search Complain Page

4.1.21. Functional Requirement for Manage Referral Amount

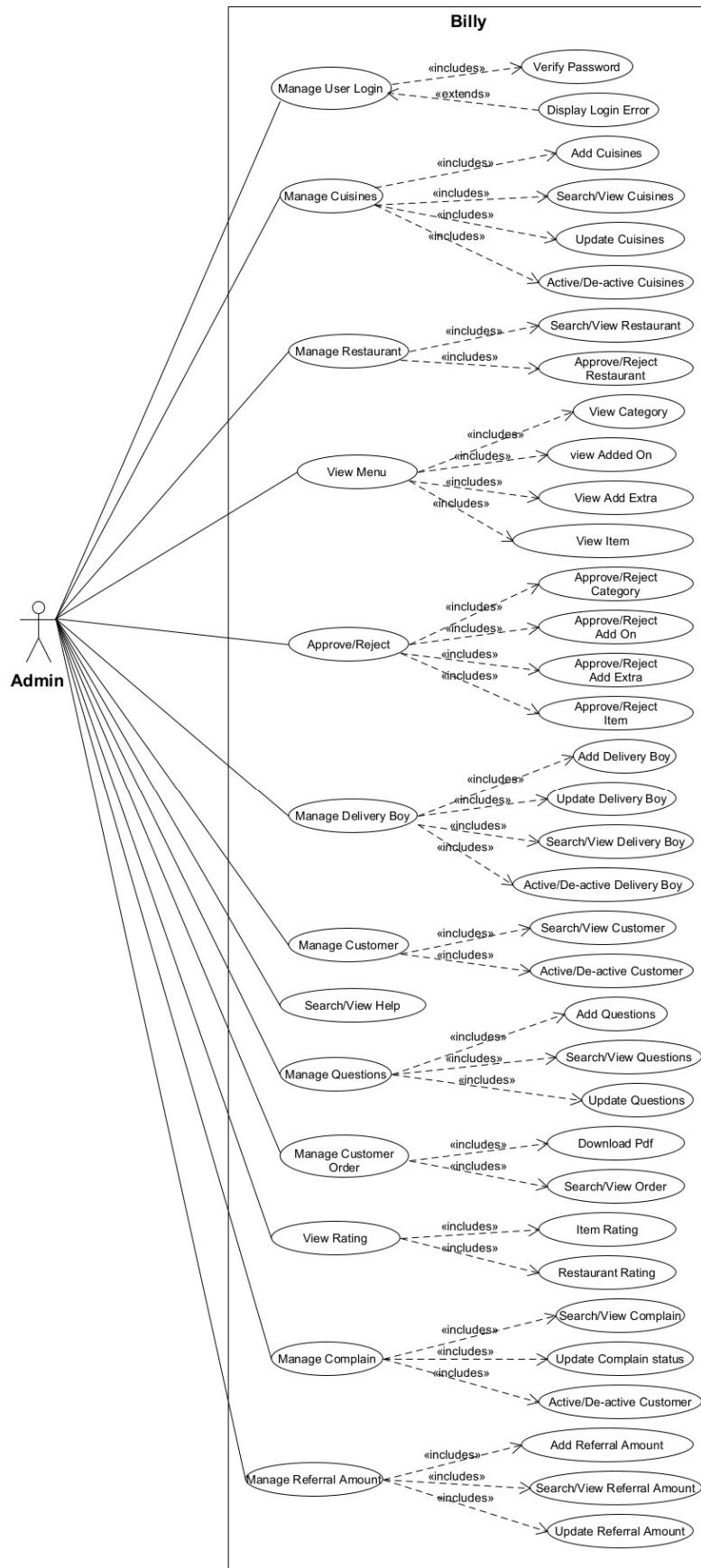
RN	Description	Comments
FR1	This Module will be managed by Admin.	Referral Page
FR2	The system will assign a unique id (Referral ID) to each Setting.	Add Referral Page
FR3	Whenever the admin updates the Referral, the admin is allowed to record the following details of the Referral Like... Referral Amount	Add Referral Page
FR4	To manage this module, the partner will be able to perform the following operations: ➤ Add new Referral ➤ Update an existing Referral	Add Referral Page Update Referral Page

4.2 Non-Functional Requirement

RN	Description	Comments
NFR1	This system has one feature called email verification. The user's entered email id is also verified by the system.	Security
NFR2	This system prevents spam user attacks and automated software (bots) by using ReCAPTCHA.	Security
NFR3	The architecture of our system is based on a typical MVC model.	Security
NFR4	This system is SEO-friendly means that we apply the on-page SEO in this system.	Efficiency
NFR5	To send coupon codes to users the system provides the facility of sending bulk emails.	Efficiency
NFR6	The system has feature translator users can change the system language according to their regional.	Usability
NFR7	The system is provided with a mechanism to verify the owner of certain JSON data using JWT token authentication.	Security

5. System Analysis

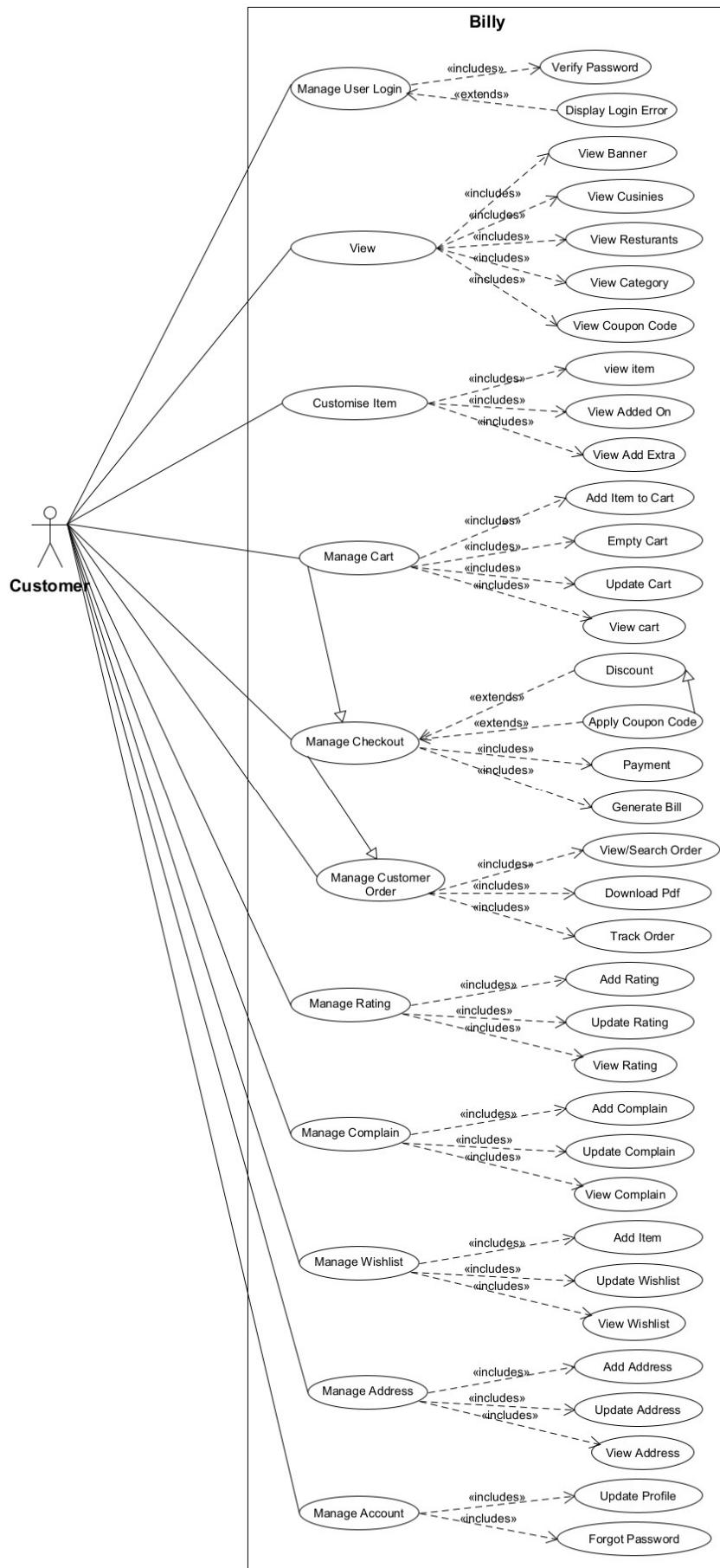
5.1.1 Use Case Diagram for Billy Admin



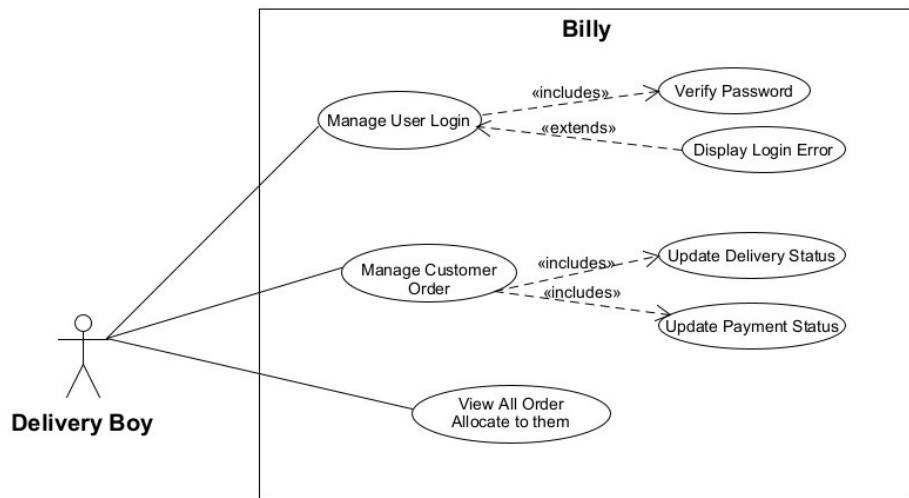
5.1.2 Use Case Diagram for Billy Partner



5.1.3 Use Case Diagram for Billy Customer

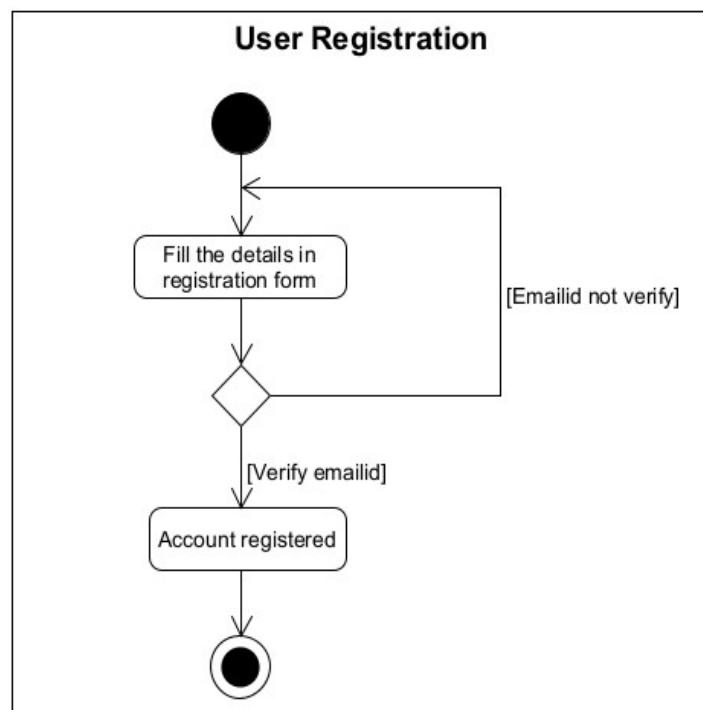


5.1.4 Use Case Diagram for Billy Delivery Boy

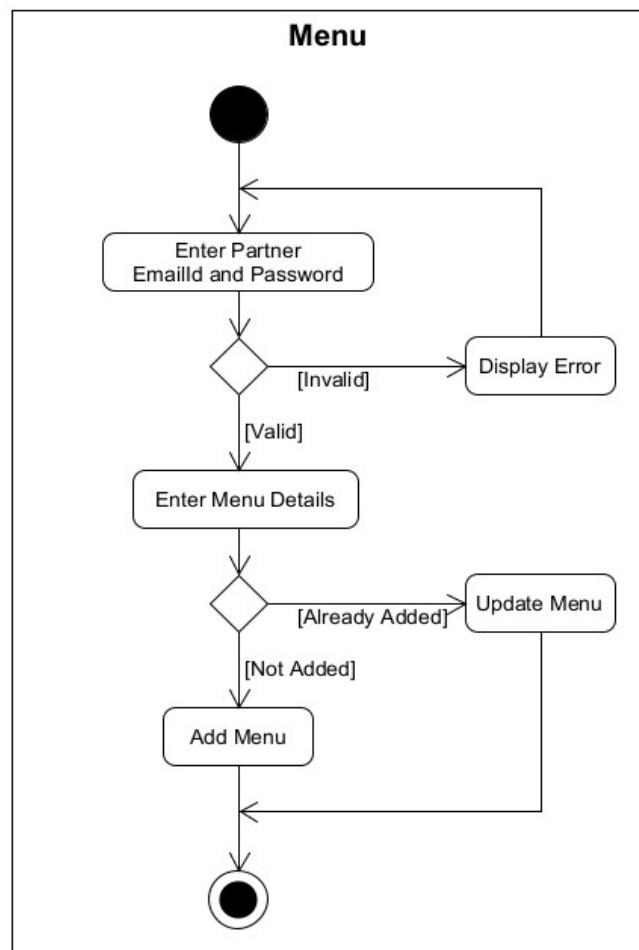


5.2 Activity Diagram

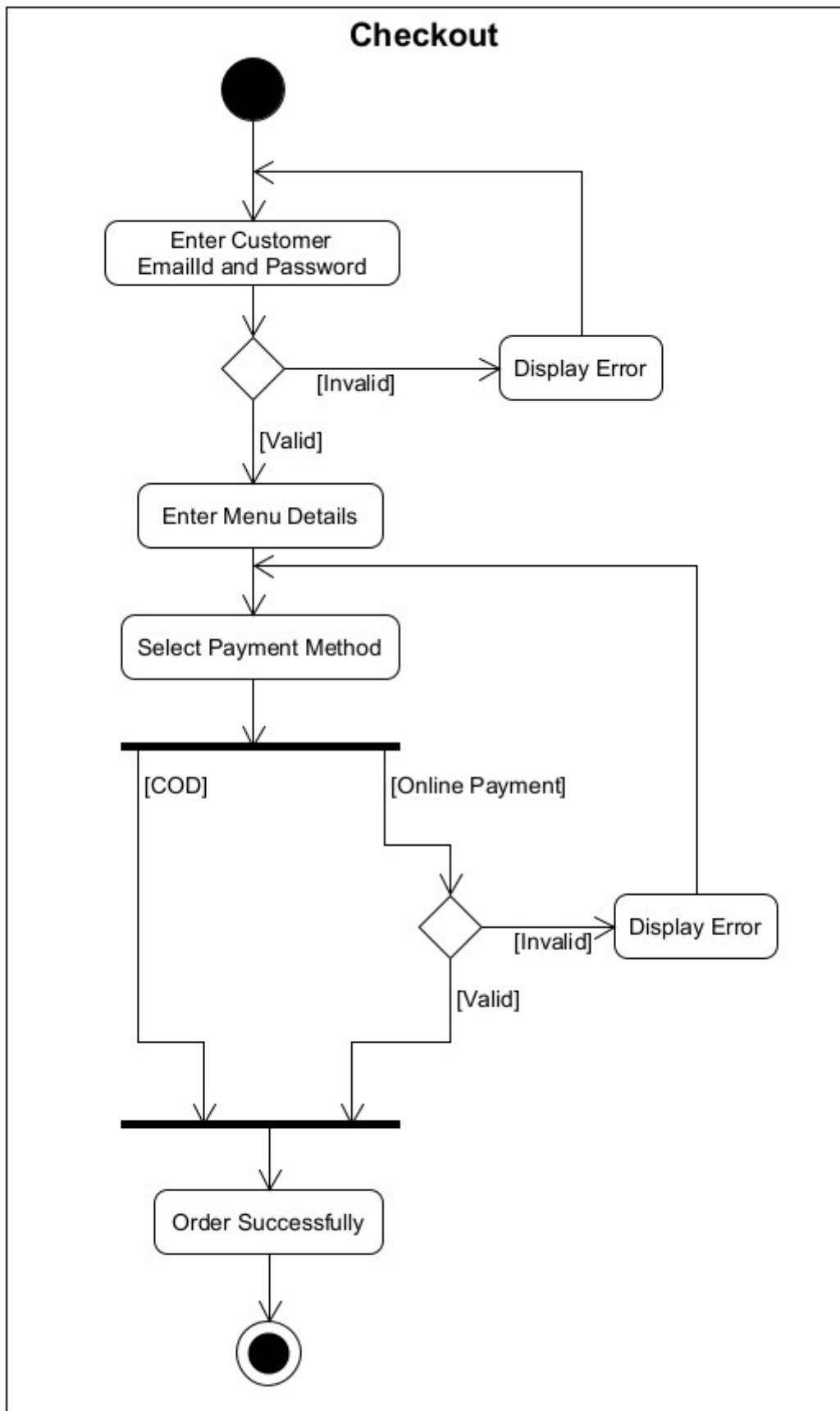
5.2.1 Activity Diagram for User Registration



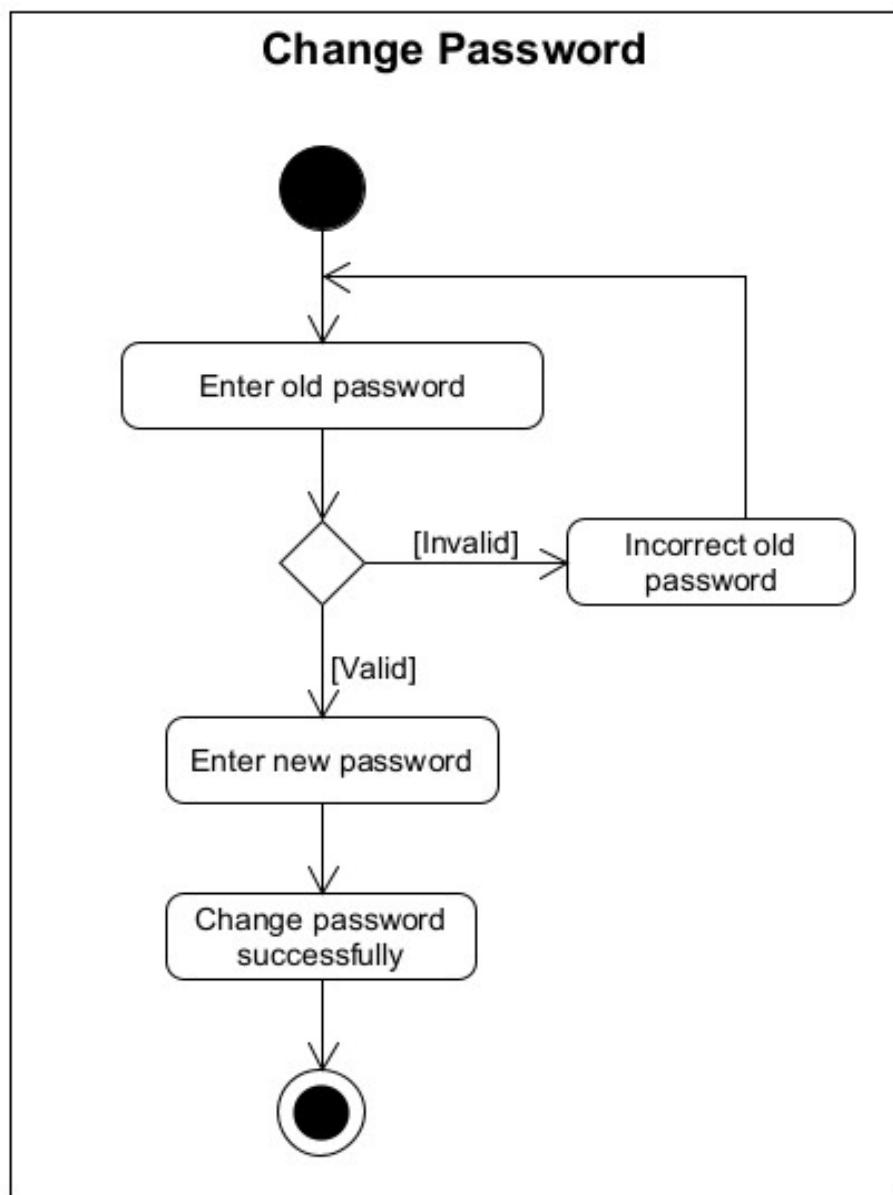
5.2.2 Activity Diagram for Menu



5.2.3 Activity Diagram for Checkout

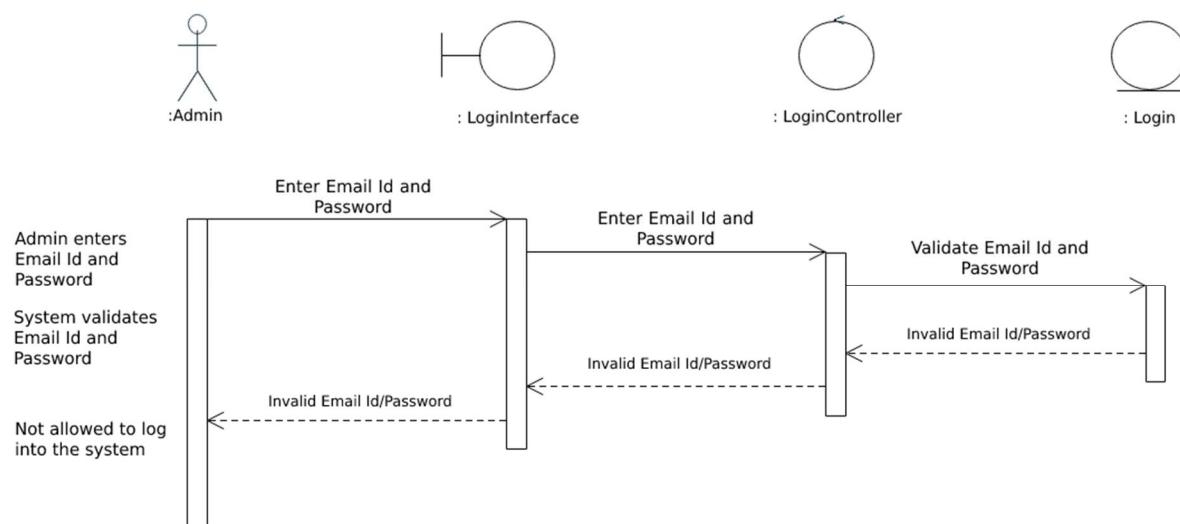


5.2.4 Activity Diagram for Change Password

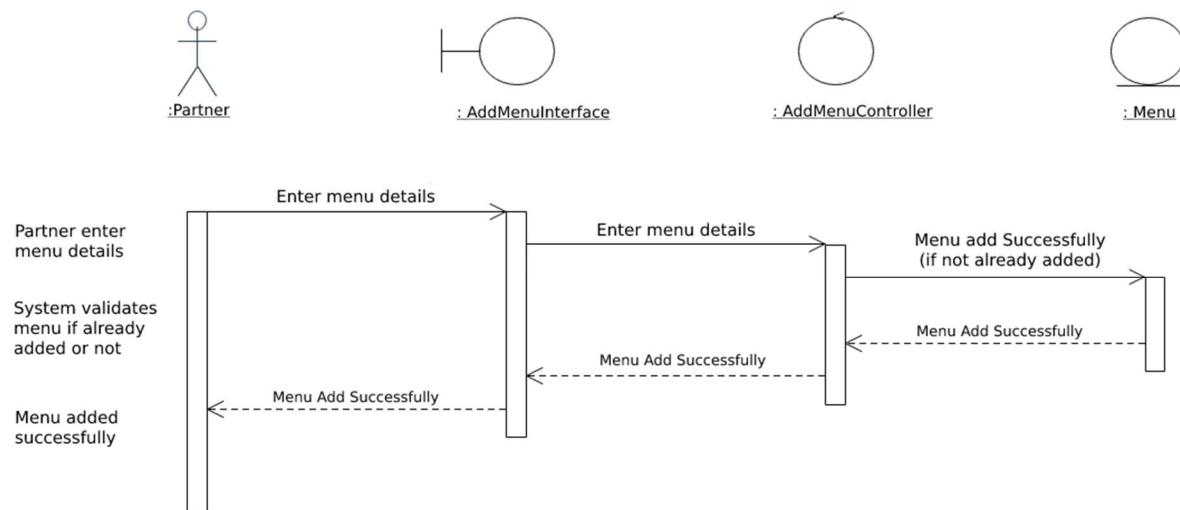


5.3 Sequence Diagram

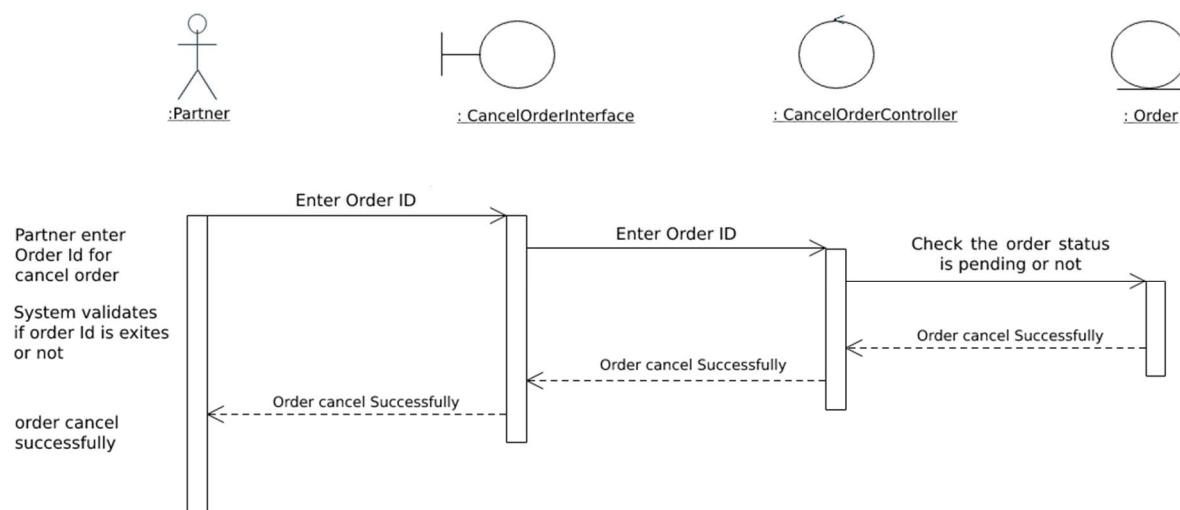
5.3.1 Login Admin



5.3.2 Add Menu



5.3.3 Cancel Order by Partner



6. System Design

6.1 Database Design

6.1.1 Database Schema

1. Admin Table

admin (ID[PK], Name, Username, Password, Email, createdAt, updatedAt)

FD: ID-> {Name, Username, Password, Email, createdAt, updatedAt}

2. Cuisines Table

cuisines (ID[PK], Name, Image, Description, Banner, Status, createdAt, updatedAt)

FD: ID-> {Name, Image, Description, Banner, Status, createdAt, updatedAt}

3. Restaurant Table

restaurant (ID[PK], Restaurant Name, Restaurant Image, Restaurant Address, Restaurant City, Restaurant Contact No., Owner Name, Owner Contact No., Owner Email ID, Owner Password, Restaurant Documents, Restaurant Timing, cuisines [FK], Status, createdAt, updatedAt)

FD: ID-> {Restaurant Name, Restaurant Image, Restaurant Address, Restaurant City, Restaurant Contact No., Owner Name, Owner Contact No., Owner Email ID, Owner Password, Restaurant Documents, Restaurant Timing, cuisines [FK], Status, createdAt, updatedAt}

FD: Documents-> {GST Certificate, FSSAI Certificate, Sample Bill, Sample Menu, Owner PAN Card}

FD: Restaurant Timing-> {Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday}

4. Added-On Table

addedon (ID[PK], restaurant [FK], Name, Type, Price, Additional Price, Final Price, Approval Status, Status, createdAt, updatedAt)

FD: ID-> {restaurant [FK], Name, Type, Price, Additional Price, Final Price, Approval Status, Status, createdAt, updatedAt}

5. Add Extra Table

addextra (ID[PK], restaurant [FK], Name, Type, Price, Additional Price, Final Price, Approval Status, Status, createdAt, updatedAt)

FD: ID-> {restaurant [FK], Name, Type, Price, Additional Price, Final Price, Approval Status, Status, createdAt, updatedAt}

6. Category Table

category (ID[PK], restaurant [FK], Name, Approval Status, Status, createdAt, updatedAt)

FD: ID-> {restaurant [FK], Name, Approval Status, Status, createdAt, updatedAt}

7. Item Added-On Table

itemaddedon (ID[PK], title, Customer Selection, addedon [FK], createdAt, updatedAt)

FD: ID-> {title, Customer Selection, addedon [FK], createdAt, updatedAt}

8. Item Add Extra Table

itemadddextra (ID[PK], title, Customer Selection, addextra [FK], createdAt, updatedAt)

FD: ID-> {title, Customer Selection, addextra [FK], createdAt, updatedAt}

9. Variant Table

variant (ID[PK], Name, UOM, Price, Sales Price, Status, createdAt, updatedAt)

FD: ID-> {Name, UOM, Price, Sales Price, Status, createdAt, updatedAt}

10. Item Table

item (ID[PK], restaurant [FK], category [FK], variant [FK], Name, Type, Description, itemaddedon [FK], itemadddextra [FK], Image, Approval Status, Status, createdAt, updatedAt)

FD: ID-> {restaurant [FK], category [FK], variant [FK], Name, Type, Description, itemaddedon [FK], itemadddextra [FK], Image, Approval Status, Status, createdAt, updatedAt}

11. Banner Table

banner (ID[PK], restaurant [FK], Name, Image, Approval Status, Status, createdAt, updatedAt)

FD: ID-> {restaurant [FK], Name, Image, Approval Status, Status, createdAt, updatedAt}

12. Delivery Boy Table

deliveryboy (ID[PK], Name, Mobile, Password, Status, createdAt, updatedAt)

FD: ID-> {Name, Mobile, Password, Status, createdAt, updatedAt}

13. Coupon Code Table

couponcode (ID[PK], Coupon code, Coupon type, Coupon value, Cart min value, Expired on, Status, createdAt, updatedAt)

FD: ID-> {Coupon code, Coupon type, Coupon value, Cart min value, Expired on, Status, createdAt, updatedAt}

14. Billing Address Table

billingaddress (ID[PK], Title, Address City, State, Country, Pin Code, createdAt, updatedAt)

FD: ID-> {Title, Address, City, State, Country, Pin Code, createdAt, updatedAt}

15. Customer Table

customer (ID[PK], Image Name, Email ID, Password, Contact No., Billing Address [FK], OTP, Hash, Referral Code, From Referral Code, Status, createdAt, updatedAt)

FD: ID-> {Image Name, Email ID, Password, Contact No., Billing Address [FK], OTP, Hash, Referral Code, From Referral Code, Status, createdAt, updatedAt}

16. Wishlist Table

wishlist (ID[PK], customer [FK], item [FK], addedon [FK], addextra [FK], createdAt, updatedAt)

FD: ID-> {customer [FK], item [FK], createdAt, updatedAt}

17. Cart Table

cart (ID[PK], customer [FK], item [FK], Qty, variant [FK], addedon [FK], addextra [FK], createdAt, updatedAt)

FD: ID-> {customer [FK], item [FK], Qty, variant [FK], addedon [FK], addextra [FK], createdAt, updatedAt}

18. Order Master Table

Order (ID[PK], customer [FK], Billing Address [FK], Price, Coupon Code [FK], Total Price, Delivery Boy [FK], Payment Status, Payment Type, Payment ID, Order Status, Cancel By, Cancel At, Delivered On, Refund Status, createdAt, updatedAt)

FD: ID-> {customer [FK], Billing Address [FK], Price, Coupon Code [FK], Total Price, Delivery Boy [FK], Payment Status, Payment Type, Payment ID, Order Status, Cancel By, Cancel At, Delivered On, Refund Status, createdAt, updatedAt}

19. Order Detail Table

Order (ID[PK], Order Master [FK], item [FK], Qty, variant [FK], addedon [FK], addextra [FK], createdAt, updatedAt)

FD: ID-> {Order Master [FK], item [FK], Qty, variant [FK], addedon [FK], addextra [FK], createdAt, updatedAt}

20. Get Touch Table

gettouch (ID [PK], restaurant [FK], Subject, Message, Status, createdAt, updatedAt)

FD: ID-> {restaurant [FK], Subject, Message, Status, createdAt, updatedAt}

21. Setting Table (For Partner)

setting (ID [PK], Cart Min Price, Cart Min Price Message, Delivery charge, GST, createdAt, updatedAt)

FD: ID-> {Cart Min Price, Cart Min Price Message, Delivery charge, GST, createdAt, updatedAt}

22. Question Table

Question (ID[PK], Question, createdAt, updatedAt)

FD: ID-> {question, createdAt, updatedAt}

23. Complain Table

complain (ID[PK], ordermaster [FK], question [FK], Message, Approval Status, Status, createdAt, updatedAt,)

FD: ID-> {ordermaster [FK], question [FK], Message, Approval Status, Status, createdAt, updatedAt}

24. Referral Amount Table

referral (ID[PK], Referral Amount, createdAt, updatedAt)

FD: ID-> {Referral Amount, createdAt, updatedAt}

25. Review Table

review (ID[PK], orderdetail [FK], ratting, comment, createdAt, updatedAt)

FD: ID-> {customer [FK], order [FK], item [FK], ratting, comment, createdAt, updatedAt}

26. Wallet Table

wallet (ID[PK], customer [FK], amount, message, type, payment id, createdAt, updatedAt)

FD: ID-> {customer [FK], amount, message, type, payment id, createdAt, updatedAt}

6.1.2 Data Dictionary

1. Admin

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of admin.
2	Name	String	-	Unique, Not Null	Specifies the name of admin.
3	Username	String	-	Not Null	Specifies the username of admin.
4	Password	String	-	Not Null	Specifies the user define password of admin.
5	Email	String	-	Not Null	Specifies the email id of admin.
6	createdAt	timestamps	-	Not Null	Specifies the createdAt of admin.
7	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of admin.

2. Cuisines Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Cuisines.
2	Name	String	-	Not Null	Specifies the name of Cuisines.
3	Image	String	-	Not Null	Specifies the image URL of Cuisines.
4	Description	String	-	Not Null	Specifies the description of Cuisines.
5	Banner	String	-	Not Null	Specifies the banner URL of Cuisines.
6	Status	Boolean	-	Default: True	Specifies the status of Cuisines.

7	createdAt	timestamps	-	Not Null	Specifies the createdAt of Cuisines.
8	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Cuisines.

3. Restaurant Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Restaurant.
2	Restaurant Name	String	-	Unique, Not Null	Specifies the name of Restaurant.
3	Restaurant Image	String	-	Not Null	Specifies the image URL of Restaurant.
4	Restaurant Address	String	-	Not Null	Specifies the address of Restaurant.
5	Restaurant City	String	-	Default: Bardoli	Specifies the city of Restaurant.
6	Restaurant Contact No.	Number	-	Not Null	Specifies the contact no of Restaurant.
7	Owner Name	String	-	Not Null	Specifies the name of Owner.
8	Owner Contact No.	Number	-	Unique, Not Null	Specifies the contact no of Owner.
9	Owner Email ID	String	-	Unique, Not Null	Specifies the email id of Owner.
10	Owner Password	String	-	Not Null	Specifies the password of Owner.
11	Restaurant Documents	Object of String	-	Null	Specifies the documents of Restaurant.

12	Restaurant Timing	Object of Array (Date)	-	Null	Specifies the timing of Restaurant
13	cuisines	Array of ObjectId	-	Foreign Key	Reference from cuisines (Id).
14	Status	Boolean	-	Default: True	Specifies the status of Restaurant.
15	createdAt	timestamps	-	Not Null	Specifies the createdAt of Restaurant.
16	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Restaurant.

4. Added-On Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Added-On.
2	restaurant	ObjectId	-	Foreign Key	Reference from restaurant (Id).
3	Name	String	-	Unique, Not Null	Specifies the name of Added-On.
4	Type	String	-	enum ['veg', 'non-veg', 'egg']	Specifies the type of Added-On.
5	Price	Number	-	Not Null	Specifies the price of Added-On.
6	Additional Price	Number	-	Not Null	Specifies the additional price of Added-On.
7	Final Price	Number	-	Not Null	Specifies the final price of Added-On.
8	Approval Status	Number	-	Default: 1	Specifies the approval status of Added-On.
9	Status	Boolean	-	Default: True	Specifies the status of Added-On.
10	createdAt	timestamps	-	Not Null	Specifies the createdAt of Added-On.

11	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Added-On.
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5. Add Extra Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Add Extra.
2	restaurant	ObjectId	-	Foreign Key	Reference from restaurant (Id).
3	Name	String	-	Unique, Not Null	Specifies the name of Add Extra.
4	Type	String	-	enum ['veg', 'non-veg', 'egg']	Specifies the type of Add Extra.
5	Price	Number	-	Not Null	Specifies the price of Add Extra.
6	Additional Price	Number	-	Not Null	Specifies the additional price of Add Extra.
7	Final Price	Number	-	Not Null	Specifies the final price of Add Extra.
8	Approval Status	Number	-	Default: 1	Specifies the approval status of Add Extra.
9	Status	Boolean	-	Default: True	Specifies the status of Add Extra.
10	createdAt	timestamps	-	Not Null	Specifies the createdAt of Add Extra.
11	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Add Extra.

6. Category Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key,	Identifies Unique id of Category.

				Auto increment	
2	restaurant	ObjectId	-	Foreign Key	Reference from restaurant (Id).
3	Name	String	-	Unique, Not Null	Specifies the name of Category.
4	Approval Status	Number	-	Default: 1	Specifies the approval status of Category.
5	Status	Boolean	-	Default: True	Specifies the status of Category.
6	createdAt	timestamps	-	Not Null	Specifies the createdAt of Category.
7	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Category.

7. Item Added-On Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Item Added-On.
2	Title	String	-	Unique, Not Null	Specifies the title of Item Added-On.
3	Customer Selection	String	-	enum ['optional', 'compulsory']	Specifies the customer selection of Item Added-On.
4	addedon	Array of ObjectId	-	Foreign Key	Reference from added-on (Id).
5	createdAt	timestamps	-	Not Null	Specifies the createdAt of Item Added-On.
6	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Item Added-On.

8. Item Add Extra Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Item Add Extra.
2	Title	String	-	Unique, Not Null	Specifies the title of Item Add Extra.
3	Customer Selection	String	-	enum ['optional', 'compulsory']	Specifies the customer selection of Item Add Extra.
4	addeextra	Array of ObjectId	-	Foreign Key	Reference from Add Extra (Id).
5	createdAt	timestamps	-	Not Null	Specifies the createdAt of Item Add Extra.
6	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Item Added-On Item Add Extra.

9. Variant Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Variant.
2	Name	String	-	Not Null	Specifies the name of Variant.
3	UOM	String	-	Not Null	Specifies the uom of Variant.
4	Price	Number	-	Not Null	Specifies the price of Variant.
5	Sales price	Number	-	Not Null	Specifies the sales price of Variant.
6	Status	Boolean	-	Default: True	Specifies the status of Variant.
7	createdAt	timestamps	-	Not Null	Specifies the createdAt of Variant.
8	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Variant.

10. Item Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Item.
2	restaurant	ObjectId	-	Foreign Key	Reference from restaurant (Id).
3	category	ObjectId	-	Foreign Key	Reference from category (Id).
4	variant	ObjectId	-	Foreign Key	Reference from variant (Id).
5	Name	String	-	Not Null	Specifies the name of Item.
6	Type	String	-	enum ['veg', 'non-veg', 'egg']	Specifies the type of Item.
7	Description	String	-	Not Null	Specifies the description of Item.
8	itemaddedon	ObjectId	-	Foreign Key	Reference from itemaddedon (Id).
9	itemaddextra	ObjectId	-	Foreign Key	Reference from itemaddextra (Id).
10	Image	String	-	Not Null	Specifies the image URL of Item.
11	Approval Status	Number	-	Default: 1	Specifies the approval status of Item.
12	Status	Boolean	-	Default: False	Specifies the status of Item.
13	createdAt	timestamps	-	Not Null	Specifies the createdAt of Item.
14	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Item.

11. Banner Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key,	Identifies Unique id of Banner.

				Auto increment	
2	restaurant	ObjectId	-	Foreign Key	Reference from restaurant (Id).
3	Name	String	-	Not Null	Specifies the name of Banner.
4	Image	String	-	Not Null	Specifies the image URL of Banner.
5	Approval Status	Number	-	Default: 1	Specifies the approval status of Banner.
6	Status	Boolean	-	Default: True	Specifies the status of Banner.
7	createdAt	timestamps	-	Not Null	Specifies the createdAt of Banner.
8	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Banner.

12. Delivery Boy Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Delivery Boy.
2	Name	String	-	Not Null	Specifies the name of Delivery Boy.
3	Mobile No	Number	-	Unique, Not Null	Specifies the mobile no. of Delivery Boy.
4	Password	String	-	Not Null	Specifies the password of Delivery Boy.
5	Status	Boolean	-	Default: True	Specifies the status of Delivery Boy.
6	createdAt	timestamps	-	Not Null	Specifies the createdAt of Delivery Boy.
7	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Delivery Boy.

13. Coupon Code Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Coupon code.
2	Coupon Code	String	-	Unique, Not Null	Specifies the name of Coupon code.
3	Coupon Type	String	-	enum ['p', 'f']	Specifies the type of Coupon code.
4	Coupon Value	Number	-	Not Null	Specifies the value of Coupon code.
5	Cart Min Value	Number	-	Not Null	Specifies the Cart Minimum Value.
6	Expired On	Date	-	Not Null	Specifies date on which the coupon code is expired.
7	Status	Boolean	-	Default: True	Specifies the status of Coupon code.
8	createdAt	timestamps	-	Not Null	Specifies the createdAt of Coupon code.
9	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Coupon code.

14. Billing Address Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Billing Address.
2	Title	String	-	Not Null	Specifies the title of Billing Address.
3	Address	String	-	Not Null	Specifies the address of Billing Address.

4	City	String	-	Not Null	Specifies the city of Billing Address.
5	State	String	-	Not Null	Specifies the state of Billing Address.
6	Country	String	-	Not Null	Specifies the country of Billing Address.
7	Pin Code	Number	-	Not Null	Specifies the pin code of Billing Address.
8	createdAt	timestamps	-	Not Null	Specifies the createdAt of Billing Address.
9	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Billing Address.

15. Customer Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Customer.
2	Image	String	-	Not Null	Specifies the image URL of Customer.
3	Name	String	-	Not Null	Specifies the name of Customer.
4	Email ID	String	-	Unique, Not Null	Specifies the email id of Customer.
5	Password	String	-	Not Null	Specifies the password of Customer.
6	Contact No.	Number	-	Unique, Not Null	Specifies the contact no. of Customer.
7	Billing Address	Array of ObjectId	-	Foreign Key	Reference from Billing Address (Id).
8	OTP	String	-	Null	Specifies the OTP of Customer.
9	Hash	String	-	Null	Specifies the hash of Customer.

10	Referral Code	String	-	Null	Specifies the referral code of Customer.
11	From Referral Code	String	-	Null	Specifies the from referral code of Customer.
12	Status	Boolean	-	Default: True	Specifies the status of Customer.
13	createdAt	timestamps	-	Not Null	Specifies the createdAt of Customer.
14	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Customer.

16. Wishlist Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Wishlist.
2	customer	ObjectId	-	Foreign Key	Reference from customer (Id).
3	item	ObjectId	-	Foreign Key	Reference from item (Id).
4	addedon	ObjectId	-	Foreign Key	Reference from addedon (Id).
5	adddextra	ObjectId	-	Foreign Key	Reference from adddextra(Id).
6	createdAt	timestamps	-	Not Null	Specifies the createdAt of Wishlist.
7	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Wishlist.

17. Cart Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Cart.

2	customer	ObjectId	-	Foreign Key	Reference from customer (Id).
3	item	ObjectId	-	Foreign Key	Reference from item (Id).
4	Qty	Number	-	Default: 1	Specifies the qty of Cart.
5	variant	ObjectId	-	Foreign Key	Reference from variant (Id).
6	addedon	ObjectId	-	Foreign Key	Reference from addedon (Id).
7	addextra	ObjectId	-	Foreign Key	Reference from addextra(Id).
8	createdAt	timestamps	-	Not Null	Specifies the createdAt of Cart.
9	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Cart.

18. Order Master Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Order Master.
2	customer	ObjectId	-	Foreign Key	Reference from customer (Id).
3	billingaddress	ObjectId	-	Foreign Key	Reference from billing address (Id).
4	Price	Number	-	Not Null	Specifies the price of Order Master.
5	couponcode	ObjectId	-	Foreign Key	Reference from coupon code (Id).
6	Total Price	Number	-	Not Null	Specifies the total price of Order Master.
7	deliveryboy	ObjectId	-	Foreign Key	Reference from delivery boy (Id).
8	Payment Status	String	-	enum ['pending', 'paid']	Specifies the payment status of Order Master.
9	Payment Type	String	-	default: cod	Specifies the payment type of Order Master.

10	Payment ID	String	-	Null	Specifies the payment id of Order Master.
11	Order Status	String	-	Enum ['pending', 'cooking', 'ontheway', 'delivered']	Specifies the order status of Order Master.
12	Cancel By	String	-	Null	Specifies the cancel by of Order Master.
13	Cancel At	Date	-	Null	Specifies the cancel at of Order Master.
14	Delivered On	Date	-	Null	Specifies the delivered on of Order Master.
15	Refund Status	Boolean	-	default: False	Specifies the order status of Order Master.
16	createdAt	timestamps	-	Not Null	Specifies the createdAt of Order Master.
17	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Order Master.

19. Order Detail Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Order Detail.
2	ordermaster	ObjectId	-	Foreign Key	Reference from order master (Id).
3	item	ObjectId	-	Foreign Key	Reference from item (Id).
4	Qty	Number	-	Default: 1	Specifies the qty of Order Detail.
5	variant	ObjectId	-	Foreign Key	Reference from variant (Id).
6	addedon	array of ObjectId	-	Foreign Key	Reference from addedon (Id).

7	adddextra	array of ObjectId	-	Foreign Key	Reference from adddextra(Id).
8	createdAt	timestamps	-	Not Null	Specifies the createdAt of Order Detail.
9	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Order Detail.

20. Get Touch Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Get Touch.
2	restaurant	ObjectId	-	Foreign Key	Reference from restaurant (Id).
3	Subject	String	-	Not Null	Specifies the subject of Get Touch.
4	Message	String	-	Not Null	Specifies the message of Get Touch.
5	Status	Boolean	-	Default: True	Specifies the status of Get Touch.
6	createdAt	timestamps	-	Not Null	Specifies the createdAt of Get Touch.
7	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Get Touch.

21. Setting Table (For Partner)

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Setting.
2	Cart Min Price	Number	-	Not Null	Specifies the cart minimum price of Setting.

4	Cart Min Price Message	String	-	Not Null	Specifies the cart minimum price message of Setting.
5	Delivery charge	Number	-	Not Null	Specifies the delivery charge of Setting.
6	GST	Number	-	Not Null	Specifies the GST of Setting.
7	createdAt	timestamps	-	Not Null	Specifies the createdAt of Setting.
8	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Setting.

22. Question Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Question.
2	Name	String	-	Not Null	Specifies the name of Question.
3	createdAt	timestamps	-	Not Null	Specifies the createdAt of Question.
4	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Question.

23. Complain Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Complain.
2	order master	ObjectId	-	Foreign Key	Reference from order master (Id).
3	question	ObjectId	-	Foreign Key	Reference from question (Id).
4	Message	String	-	Not Null	Specifies the message of Complain.

5	Approval Status	Number	-	Default: 1	Specifies the approval status of Complain.
6	Status	Boolean	-	Default: False	Specifies the status of Complain.
7	createdAt	timestamps	-	Not Null	Specifies the createdAt of Complain.
8	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Complain.

24. Referral Amount Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Referral Amount.
2	Referral Amount	Number	-	Not Null	Specifies the amount of Referral Amount.
3	createdAt	timestamps	-	Not Null	Specifies the createdAt of Referral Amount.
4	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Referral Amount.

25. Review Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Review.
2	orderdetail	ObjectId	-	Foreign Key	Reference from order detail (Id).
3	ratting	Number	-	Not Null	Specifies the ratting of Review.
4	comment	String	-	Null	Specifies the comment of Review.
5	createdAt	timestamps	-	Not Null	Specifies the createdAt of Review.

6	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Review.
---	-----------	------------	---	----------	------------------------------------

26. Wallet Table

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Id	ObjectId	-	Primary key, Auto increment	Identifies Unique id of Wallet.
2	customer	ObjectId	-	Foreign Key	Reference from customer (Id).
3	amount	Number	-	Not Null	Specifies the amount of Wallet.
4	message	String	-	Not Null	Specifies the message of Wallet.
5	type	String	-	enum ['in', 'out']	Specifies the type of Wallet.
6	payment id	String	-	Null	Specifies the payment id of Wallet.
7	createdAt	timestamps	-	Not Null	Specifies the createdAt of Wallet.
8	updatedAt	timestamps	-	Not Null	Specifies the updatedAt of Wallet.

7. System Implementation

7.1 Screenshots

7.1.1 Home Page (Web Portal)



Welcome to Billy

[Admin Portal](#)

[Partner Portal](#)

POPULAR CITIES IN INDIA
Bardoli



7.1.2 Partner Portal

1. Registration

The screenshot shows a registration form for the 'Partner' portal. The form fields are as follows:

Lapinos	Meet Patel
Canel Road, near silver plaza	7854512458
Bardoli	meetpatel@gmail.com
9658451244	*****

Below the form is an orange 'Upload' button with a camera icon. A file selection box shows 'Screenshot_2021-06-10-09-58-45-777_com.android.chrome.jpg'. At the bottom is a large orange 'SIGN UP' button.

2. Upload Documents

1 Documents 2 Timing 3 Cuisines

GST Certificate **Fssai Certificate**

Sample Bill **Sample Menu**

Owner Pancard

Next

1659434204766-gstCertificate.pdf 1659434204767-fssaiCertificate.pdf

1659434204769-sampleBill.pdf 1659434204771-sampleMenu.pdf

1659434204774-ownerPan.pdf

3. Add Restaurant Time

1 Documents 2 Timing 3 Cuisines

Monday
Start: 08:30 AM End: 12:30 PM

Tuesday
Start: 08:30 AM End: 12:30 AM

Wednesday
Start: 08:30 AM End: 12:30 PM

Thursday
Start: 08:30 AM End: 12:30 PM

Friday
Start: 08:30 AM End: 12:30 PM

Saturday
Start: 08:30 AM End: 12:30 PM

Sunday
Start: 08:30 AM End: 12:30 PM

Back **Next**

08:30 AM 12:30 PM

08:30 AM 12:30 AM

08:30 AM 12:30 PM

4. Select Cuisines

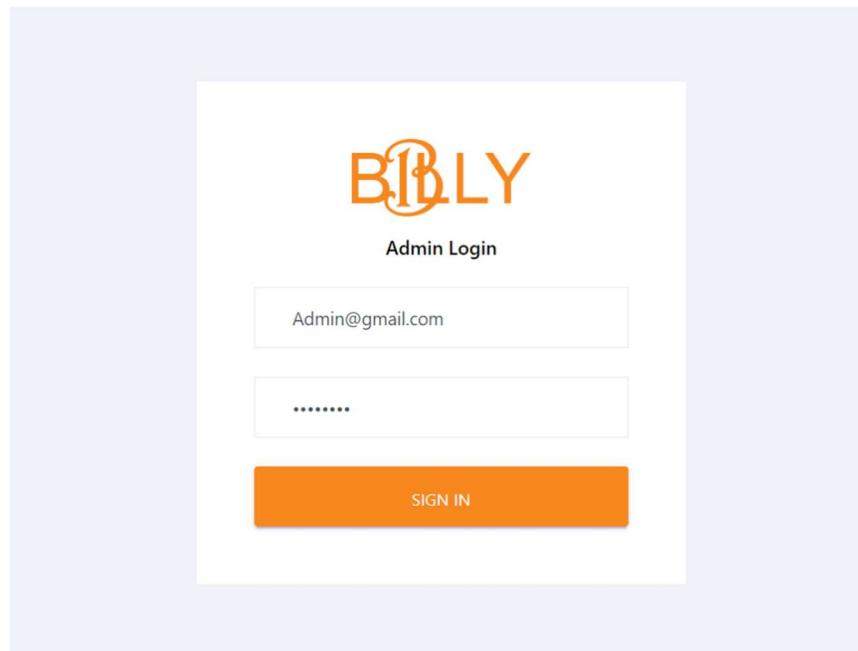
This screenshot shows a step in the registration process where the user is selecting cuisines. At the top, there are three status indicators: 'Documnets' (green checkmark), 'Timing' (green checkmark), and 'Cuisines' (orange circle). Below these, a dropdown menu is open, showing two options: 'Indian' and 'south'. A placeholder text 'Select' is visible next to the dropdown. At the bottom, there are two buttons: a black 'BACK' button on the left and an orange 'SUBMIT' button on the right.

5. Registration Successfully

This screenshot shows a confirmation message after successful registration. At the top, there are three status indicators: 'Documnets' (green checkmark), 'Timing' (green checkmark), and 'Cuisines' (green checkmark). In the center, the BILLY logo is displayed above the text 'Data Submitted SuccessFully'. Below that, it says 'Data is Review By Bily'. The background is light gray with a central white rectangular area containing the message.

7.1.3 Admin Portal

1. Login



2. Dashboard

The image shows the Admin Dashboard for Bibly. At the top, there's a navigation bar with 'Admin' and a 'Logout' link. On the left is a sidebar with 'Dashboard' selected, and other options like 'Customer', 'Cuisines', 'DeliveryBoy', and 'GetTouch'. The main area has five cards: 'Today Sale' (orange icon), '7 Days Sale' (red icon), '30 Days Sale' (purple icon), '365 Days Sale' (green icon), 'Most Liked Dish' (orange icon), and 'Most Active User' (purple icon). Below these is a section titled 'Latest 5 Order' with a table. The table has columns: Order Id, Name/Email/Mobile, Address/Zipcode, Price, Payment Type, Payment Status, Order Status, and Added On. One row is shown: Order Id 1, Name 'meet 19bmiit0015@gmail.com 9665457841', Address 'Surat 395854', Price 455, Payment Type COD, Payment Status Pending, Order Status Pending, and Added On 25/10/2022. At the bottom, a footer note says 'Copyright © 2018 . All rights reserved.'

3. Customer

The screenshot shows the Bibly application's customer management interface. The top navigation bar includes the Bibly logo and an 'Admin' dropdown. On the left, a sidebar menu lists 'Dashboard', 'Customer' (which is selected and highlighted in orange), 'Cuisines', 'DeliveryBoy', and 'GetTouch'. The main content area is titled 'Customer' and displays a table of user data. The columns are: S.No #, Name, Email, Mobile, Wallet, Added On, and Actions. Two rows are listed:

S.No #	Name	Email	Mobile	Wallet	Added On	Actions
1	Abhishek Choksi	19bmiit0032@gmail.com	7479647154	7479647154	2022-10-22	<button>Edit</button> <button>Delete</button> <button>Toggle</button>
2	Meet Patel	19bmiit015@gmail.com	9879647154	9879647154	2022-11-01	<button>Edit</button> <button>Delete</button> <button>Toggle</button>

At the bottom, there are pagination controls: 'Rows per page: 5 rows', '1-2 of 2', and navigation arrows.

4. Cuisines

The screenshot shows the Bibly application's cuisine management interface. The top navigation bar includes the Bibly logo and an 'Admin' dropdown. On the left, a sidebar menu lists 'Dashboard', 'Customer', 'Cuisines' (which is selected and highlighted in orange), 'DeliveryBoy', and 'GetTouch'. The main content area is titled 'Add Cuisines' and displays a table of cuisine data. The columns are: S.No #, CuisinesImage, CuisinesBanner, CuisinesName, Description, Added On, and Actions. Two rows are listed:

S.No #	CuisinesImage	CuisinesBanner	CuisinesName	Description	Added On	Actions
1			Indian	The food is an Indian style food	2022-09-27	<button>Edit</button> <button>Delete</button> <button>Toggle</button>
2			south	The food is an Indian style food	2022-09-27	<button>Edit</button> <button>Delete</button> <button>Toggle</button>

At the bottom, there are pagination controls: 'Rows per page: 5 rows', '1-2 of 2', and navigation arrows.

5. Delivery Boy

The screenshot shows the BIBLY Admin Dashboard. On the left, there's a sidebar with icons for Dashboard, Customer, Cuisines, DeliveryBoy (which is highlighted in orange), and GetTouch. The main content area has a header "Dashboard/DeliveryBoy" and a sub-header "Add Delivery Boy". Below this is a table titled "Delivery Boy" with columns: S.No #, Name, Mobile, and Added On. There are two rows of data:

S.No #	Name	Mobile	Added On	Actions
1	Meet Patel	9662894744	2022-12-05	<button>Edit</button> <button>Delete</button> <input type="checkbox"/>
2	Bhavik	7894561234	2022-12-05	<button>Edit</button> <button>Delete</button> <input type="checkbox"/>

At the bottom, there are pagination controls: "Rows per page: 5 rows", "1-2 of 2", and navigation arrows. The footer says "Copyright © 2018 . All rights reserved."

6. Manage Delivery Boy

The screenshot shows the "Manage Delivery Boy" form. The sidebar on the left is identical to the previous screenshot. The main form has fields for Name (Raj Patel), Password (*****), and Mobile Number (9665457844). At the bottom is a large orange "Submit" button.

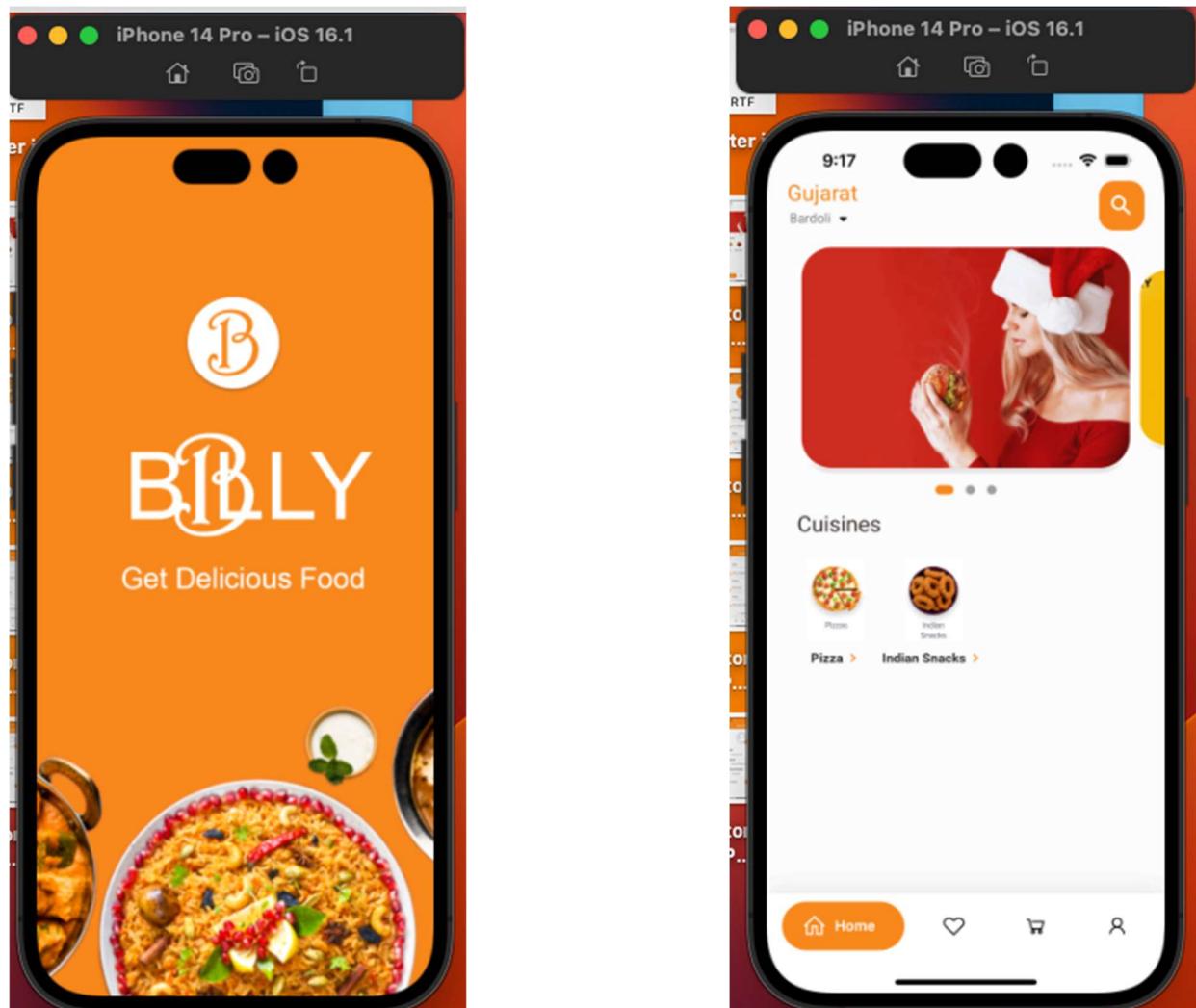
7. Get Touch

The screenshot shows the BIBLY Admin Dashboard with the title "Dashboard/Get Touch". On the left, there is a sidebar with icons for Dashboard, Customer, Cuisines, DeliveryBoy, and GetTouch (which is highlighted). The main area displays a table titled "Get Touch" with three rows of data. The columns are S.No #, RestaurantName, Subject, Message, and Actions. The data is as follows:

S.No #	RestaurantName	Subject	Message	Actions
1	Tapinos	Know about Billy	What is the Gole of Billy	<input checked="" type="checkbox"/>
2	Tapinos	What is Our Partnership	What is the Gole of Billy	<input checked="" type="checkbox"/>
3	Tapinos	About Billy	What is Billy	<input checked="" type="checkbox"/>

At the bottom, there is a footer with the text "Copyright © 2018 . All rights reserved." and navigation links for "Rows per page: 5 rows", "1-3 of 3", and "1-3 of 3".

7.1.4 Simulator (iPhone 14 Pro)



7.1.5 Customer Portal

1. Splash Screen

IOS



Android

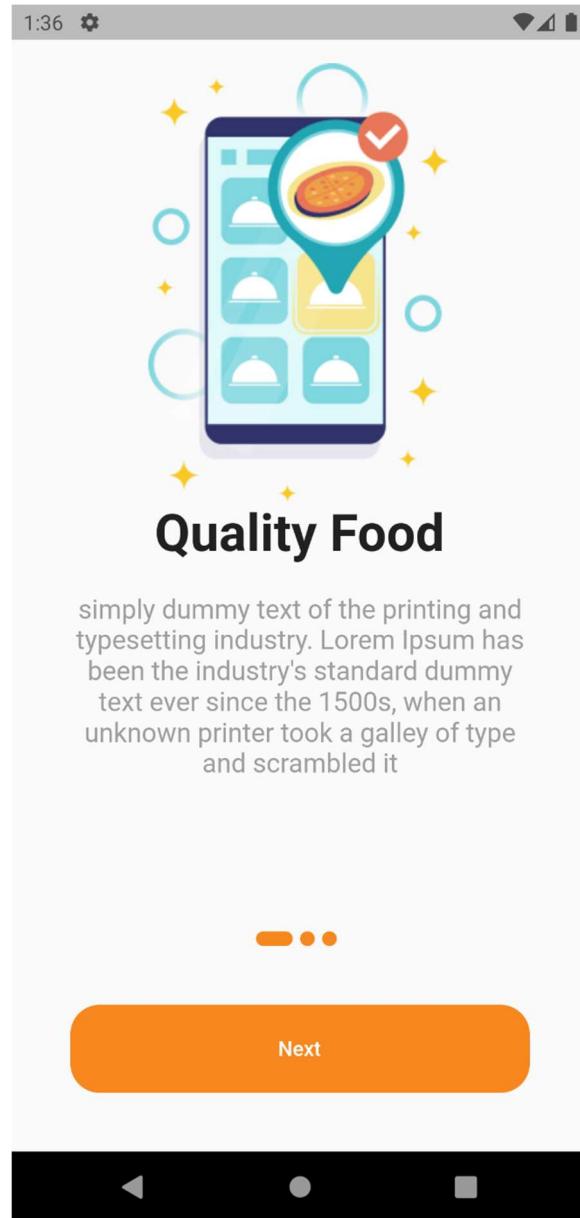


2. Onboard Screen (First Screen)

IOS

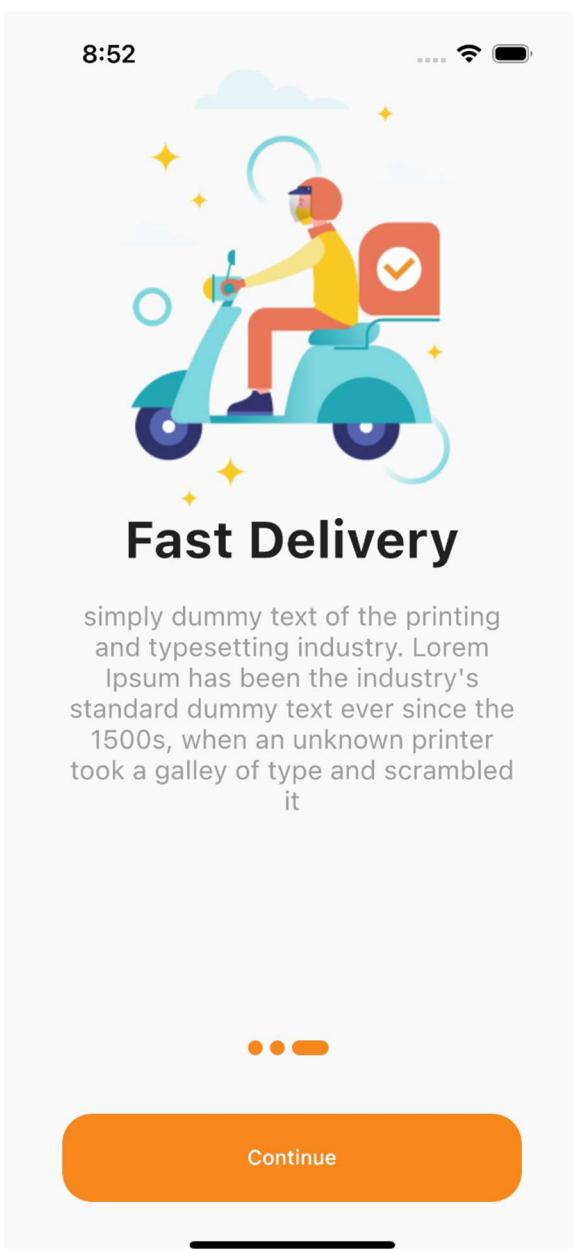


Android

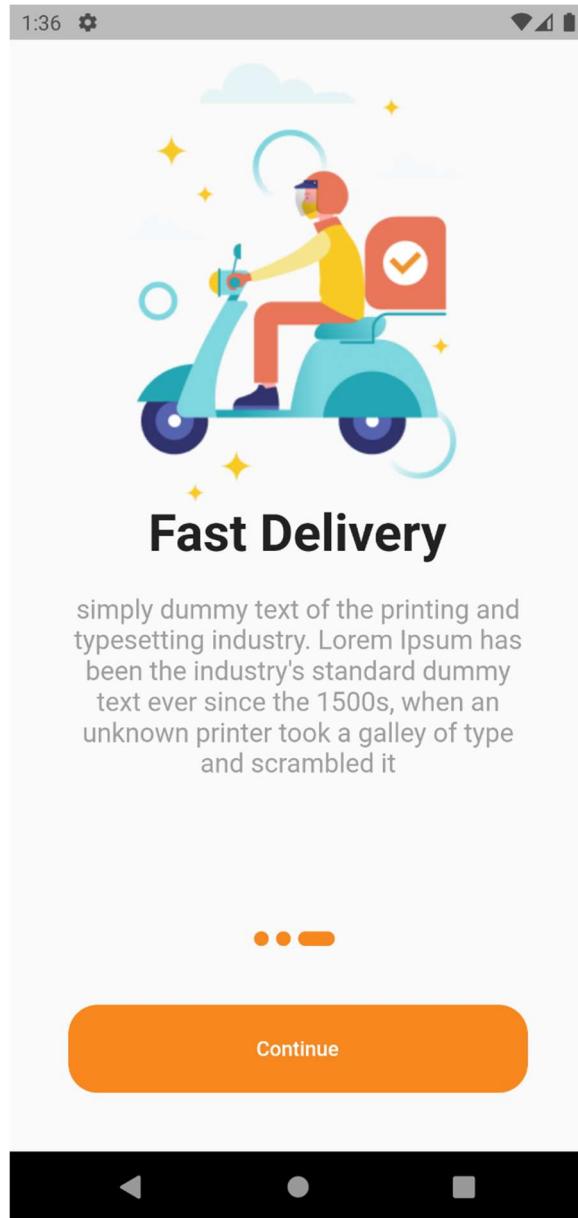


3. Onboard Screen (Last Screen)

IOS



Android



4. Sign Up

IOS

9:02



Abhishek Choksi

19bmiit032@gmail.com

*** Abhishek#7874



.....
.....



7874376579

Sign Up

Have an account already?

Sign up using one of the following methods



Android

1:40



Abhishek Choksi

19bmiit0032@gmail.com

***
.....



*** Abhishek#7874



7874376579

Sign Up

Have an account already?

Sign up using one of the following methods



5. Sign In

IOS

7:54



Hello

Sign into your account

7874376579

*** |



Sign into your account

Sign In

or

Generate OTP

Don't have an account? [Create](#)

Android

1:41



Hello

Sign into your account

7874376579

*** |



Sign into your account

Sign In

or

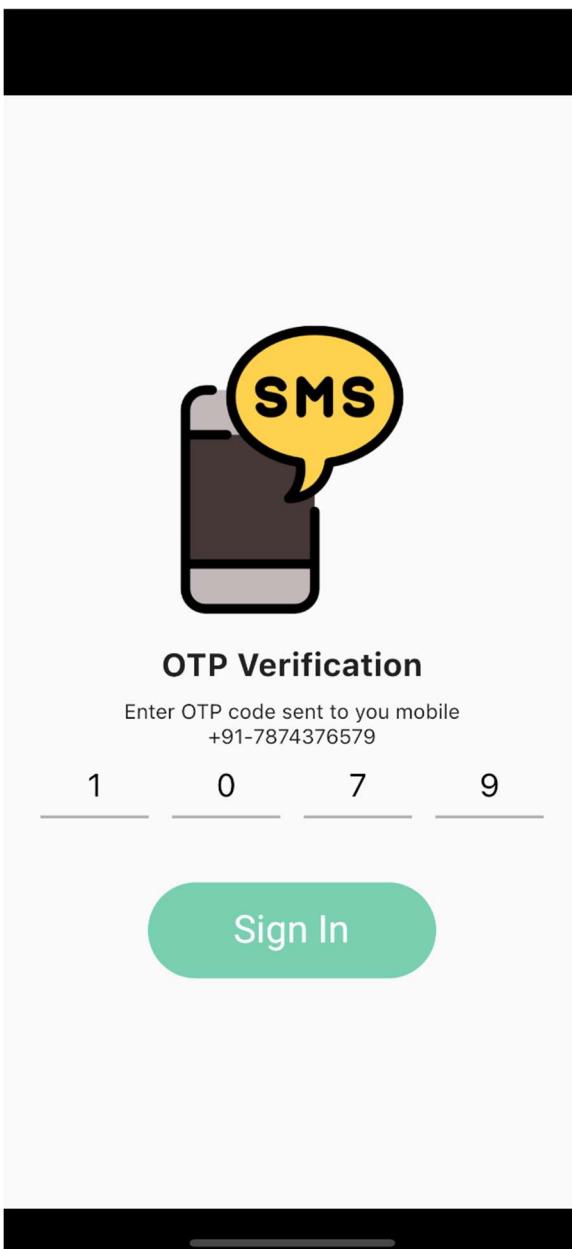
Generate OTP

Don't have an account? [Create](#)

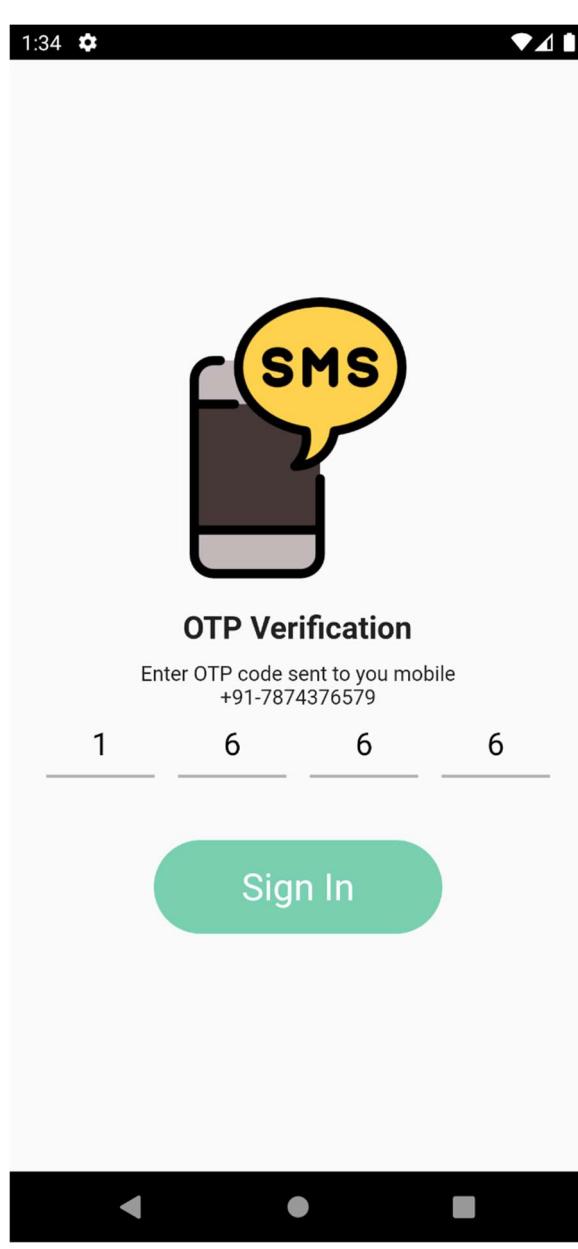


6. Sign In with OTP

IOS

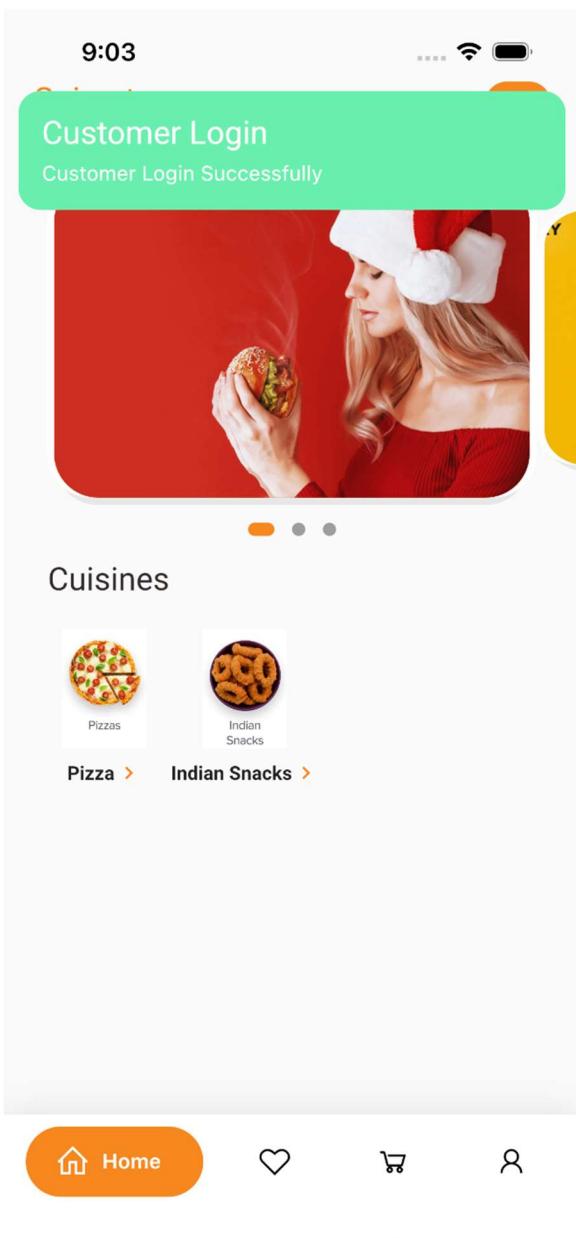


Android

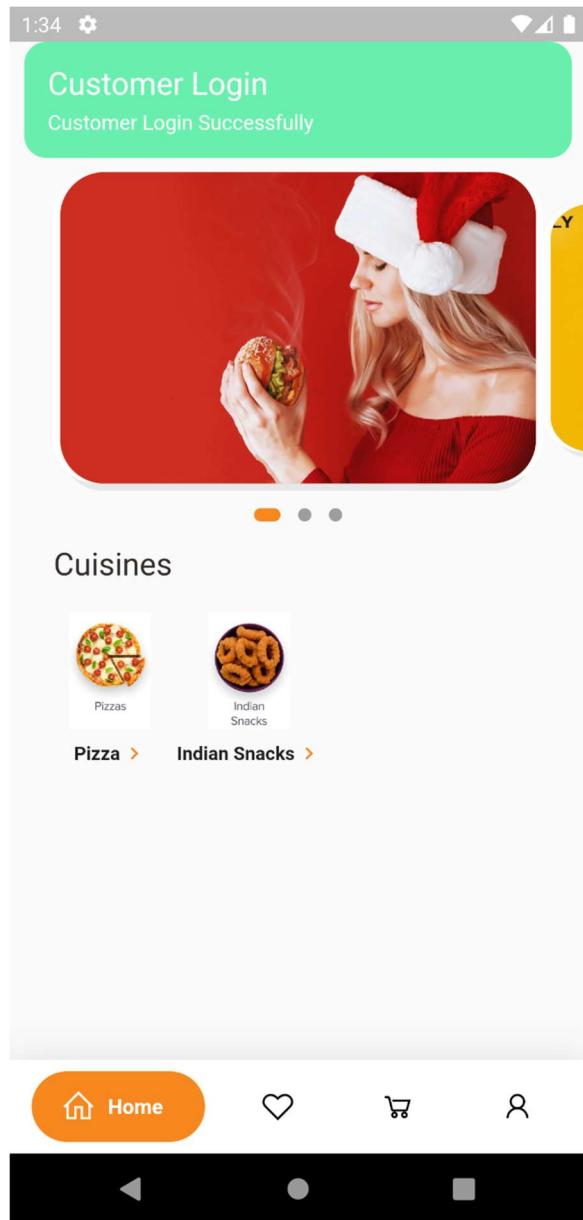


7. Sign In Message

IOS

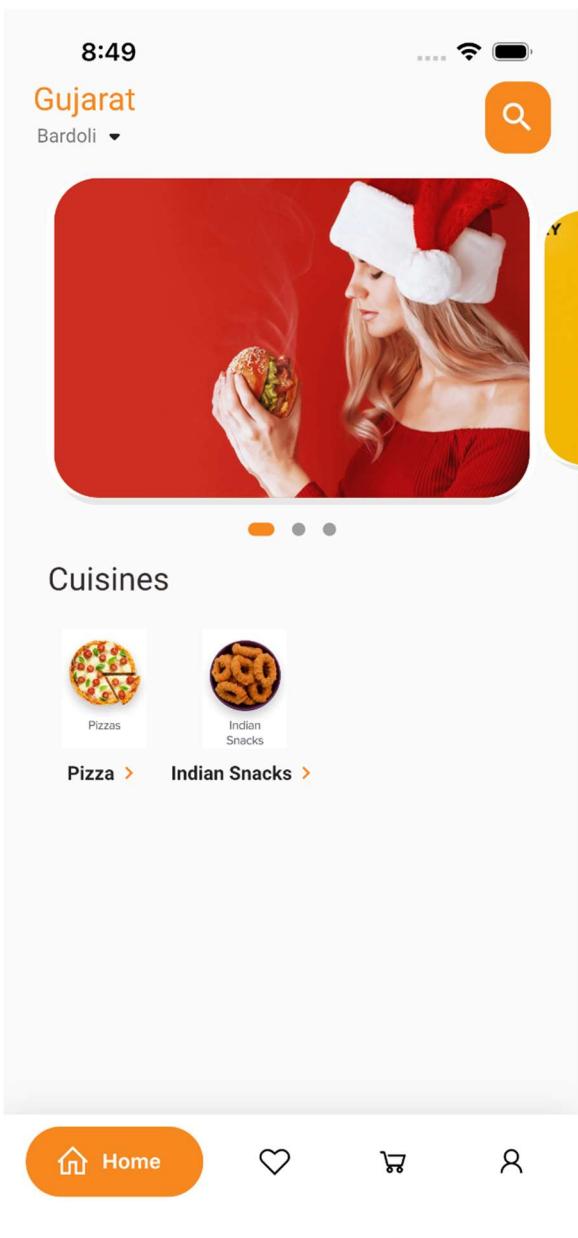


Android

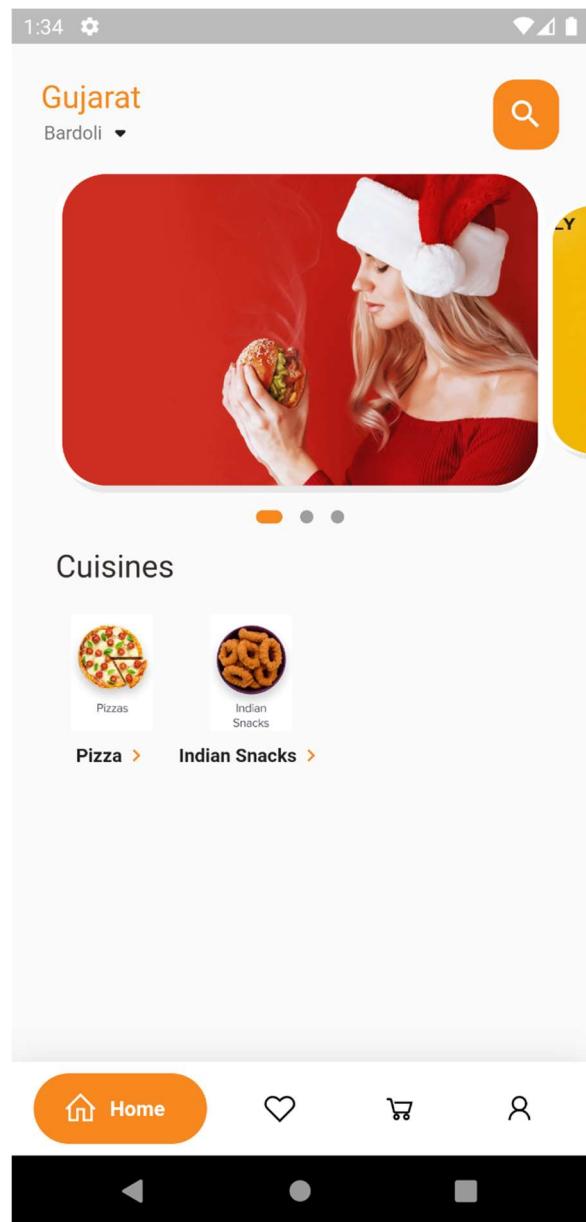


8. Home

IOS

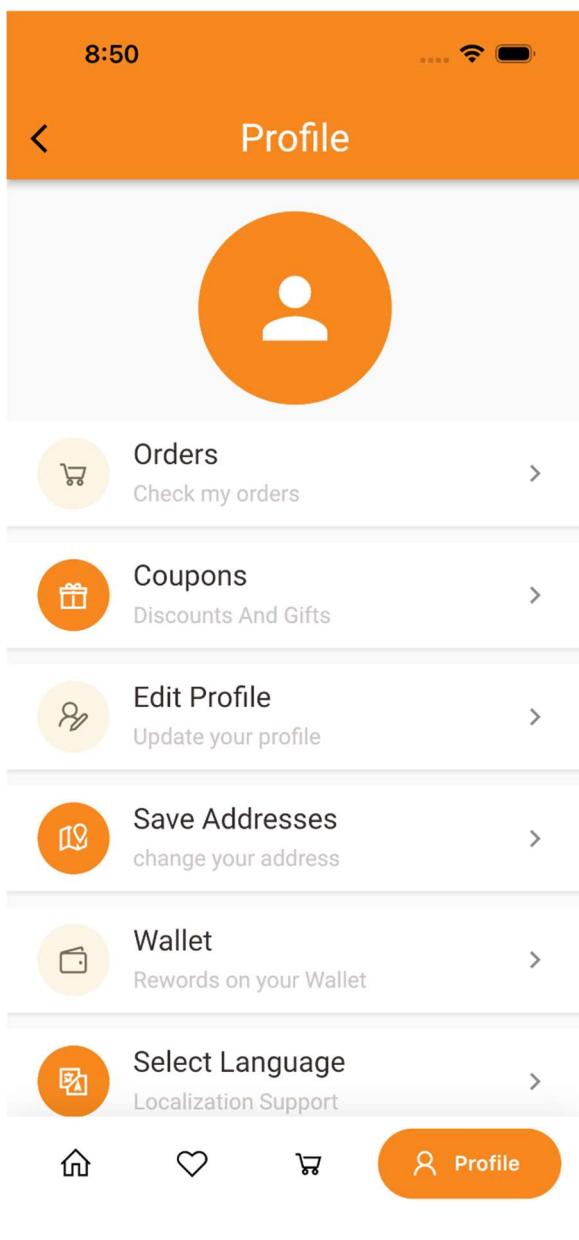


Android

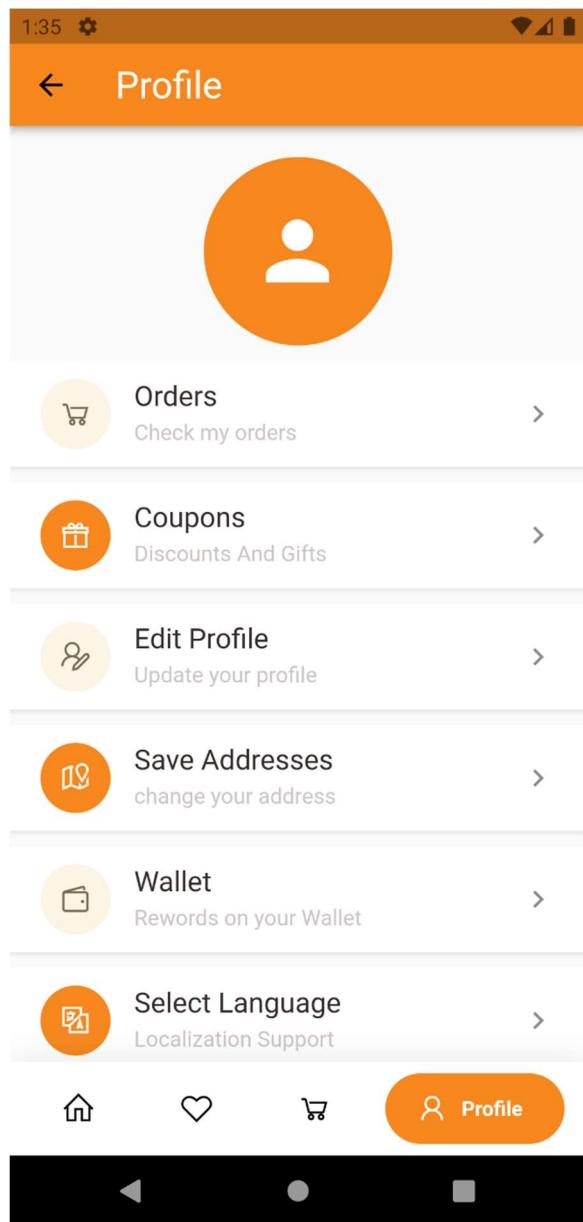


9. Profile

IOS

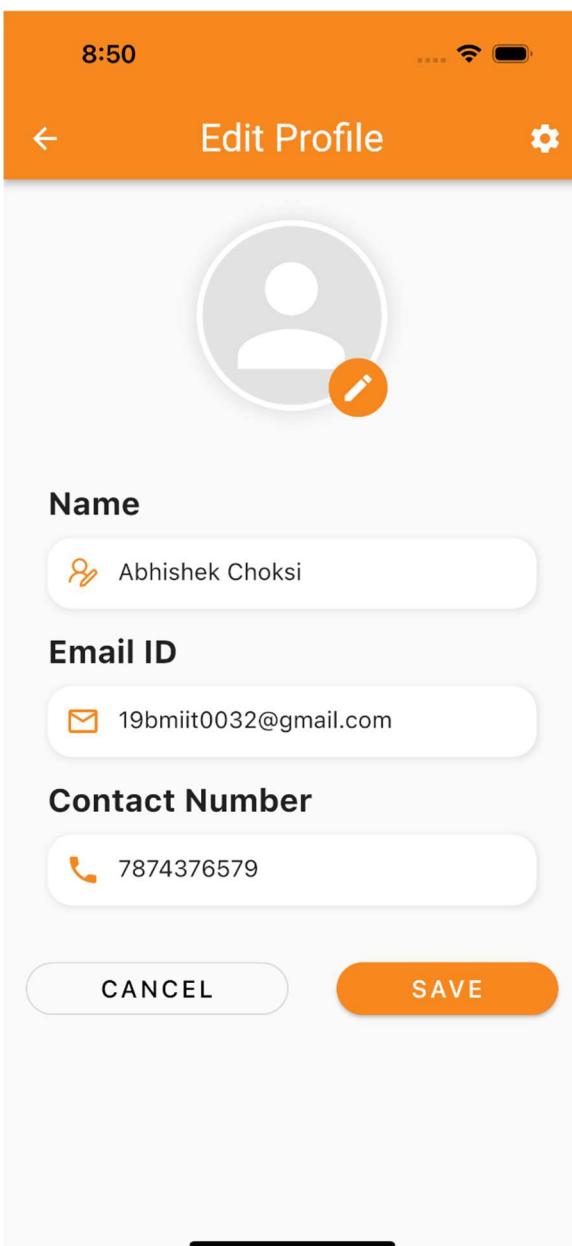


Android

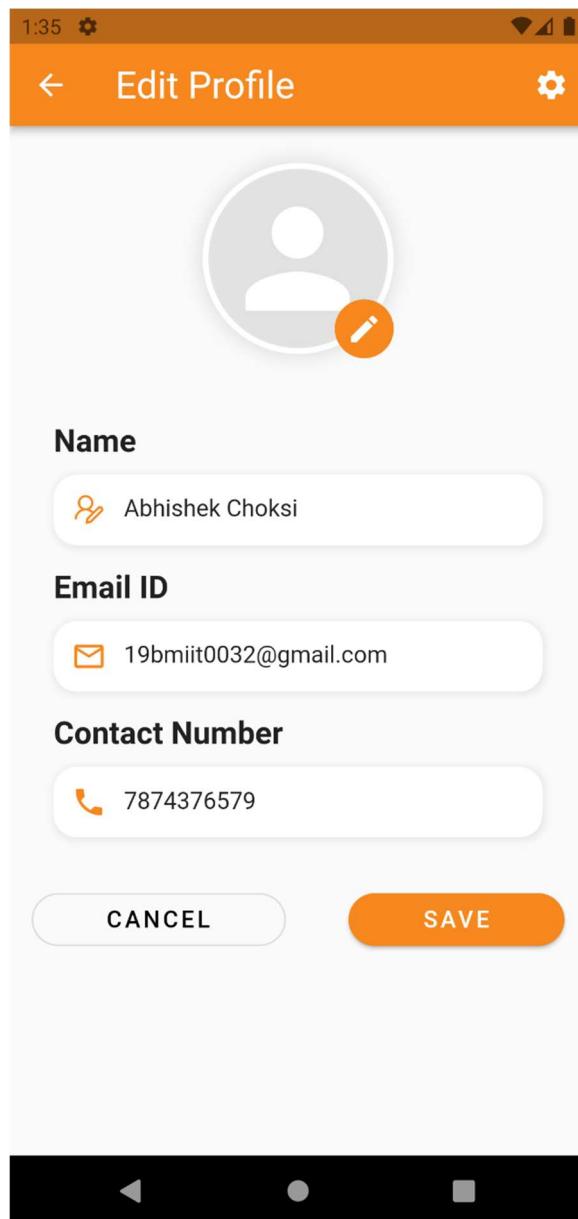


10. Edit Profile

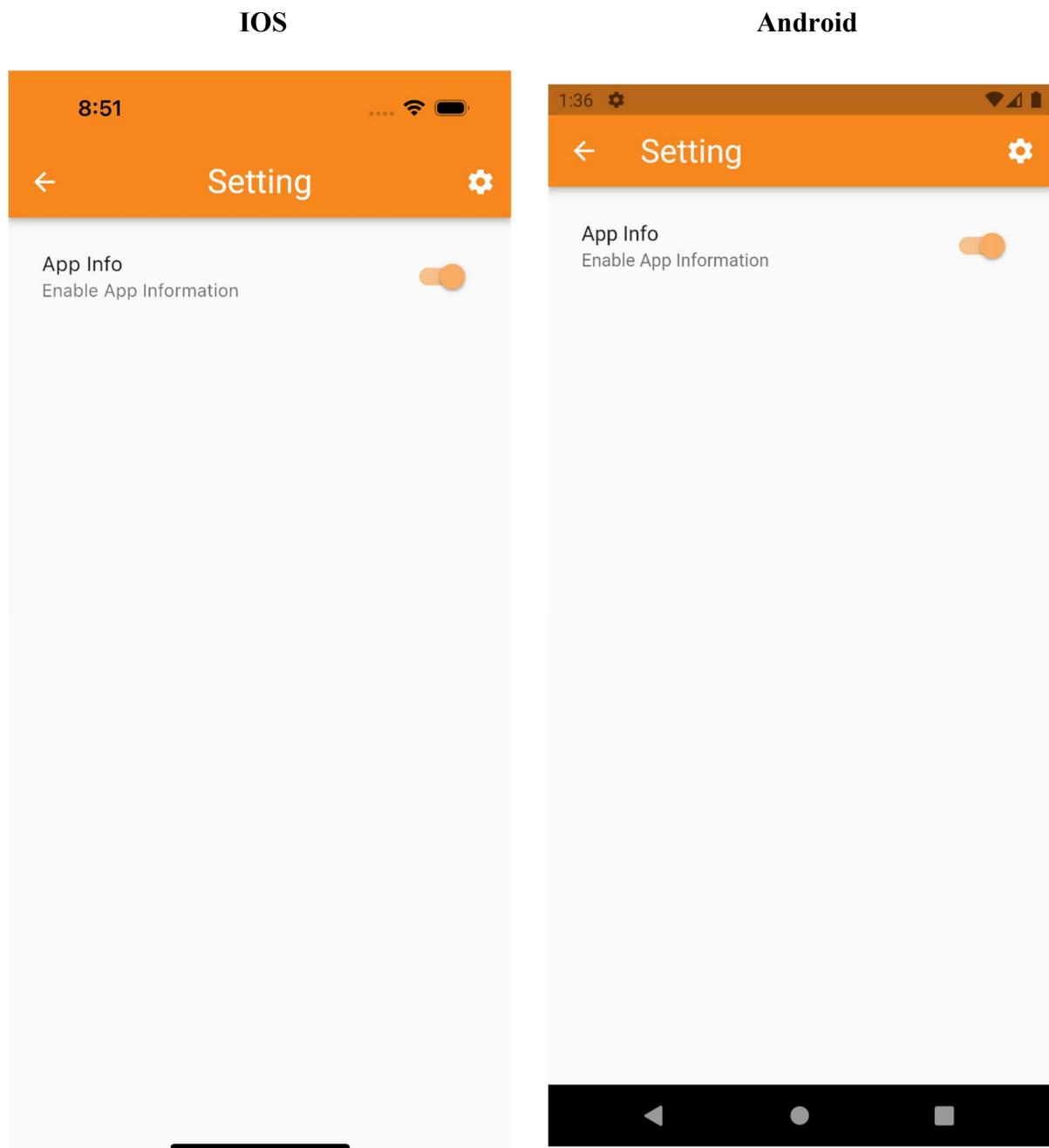
IOS



Android

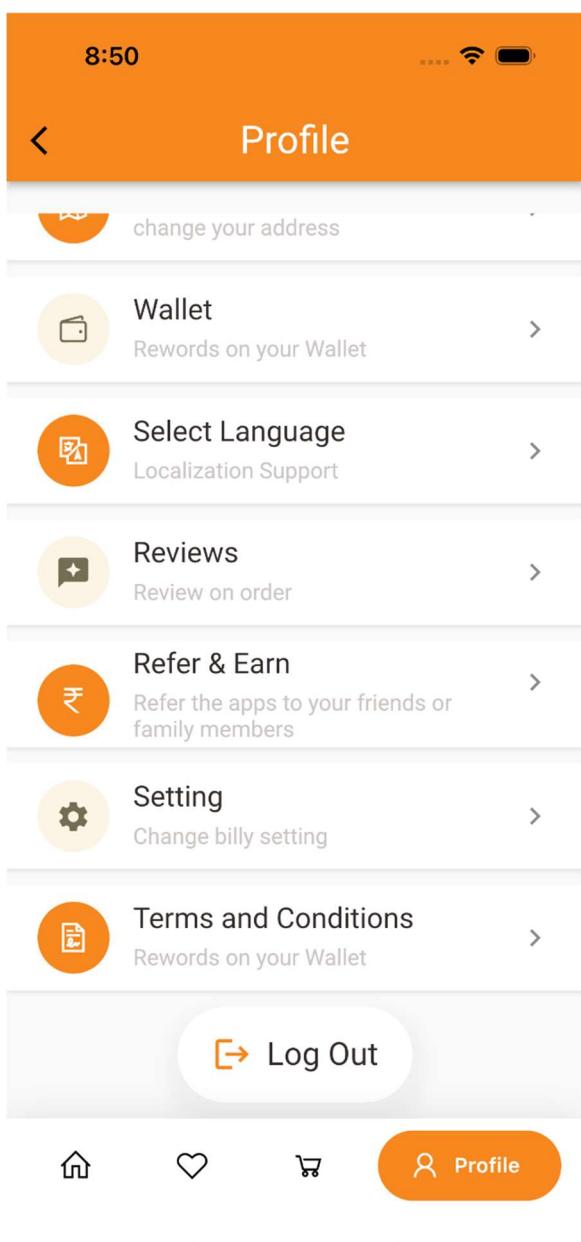


11. Setting

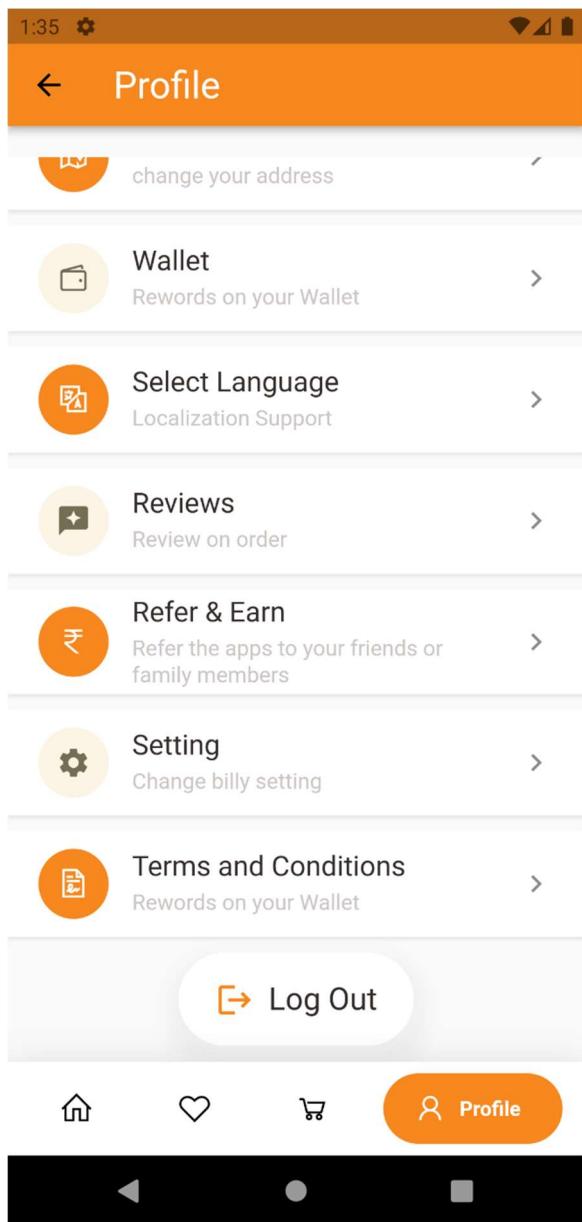


12. Logout

IOS



Android



Future Enhancement

- This module can be modified if the future according to the need of the organization.
- For future enhancement, we try to track the customer order and the customer's live location is automated fetch by using an AI system.
- And also, we will try to use the QR Code for the coupon code. So, the customer easily scanned the coupon code.

Conclusion

A billy is proposed, useful in small family-run restaurants. This also helps restaurant owners to develop healthy customer relationships by providing reasonably good service.

Bibliography

- Website Referred:
 - [Order food online from India's best food delivery service. Order from restaurants near you \(swiggy.com\)](#)
 - [Stack Overflow - Where Developers Learn, Share, & Build Careers](#)
 - [La Pino'z Pizza](#)
 - [Flutter Dev Document](#)
 - [Pub Dev \(Flutter Packages\)](#)
- Video Referred:
 - [Register on Swiggy || Add restaurant || रेस्टोरेंट SWIGGY पे कैसे लाये || Hindi || March 2021](#)
 - [How to Edit Menu on Swiggy|Add items,Change Price,Add items Photo,Delete items|Step-By-Step|Swiggy](#)
 - [How To Order Food From Swiggy App | Swiggy App Se Khana Order Kaise Karen | GagTech](#)
 - [React and node js project in Hindi \(MERN stack\)](#)
 - [Getting Started with MERN Stack Application](#)