

Online Restaurant Management System

A project submitted to

UKA TARSADIA UNIVERSITY

in partial fulfillment of the requirements for the degree of

Bachelor of Science

in

Information Technology

for

5 Years Integrated M.Sc.(IT)

By

Hasti Ghelani

(202006100110065)

and

Vatsal Mangukiya

(202006100110076)

Guided by

Mr. Bhavik Sarang

Assistant Professor



Babu Madhav Institute of Information Technology

Uka Tarsadia University

Bardoli – 394350

December 2020

CERTIFICATE

This is to certify that **Hasti Ghelani(202006100110065)** & **Vatsal Mangukiya(202006100110076)** has submitted project entitled **“Resturant Management System”** as the partial fulfillment for the award of the degree of Bachelor of Science in Information Technology for 5 Years Integrated M.Sc.(IT) in 2020 – 2021.

Date:

Place:

Mr. Bhavik Sarang

Guide

Dr. Jitendra Nasriwala

Programmer Coordinator,

External Examiner



Babu Madhav Institute of Information Technology,

Uka Tarsadia University,

Bardoli – 394350

Table of Content

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

List of Figures

Figure no.	Figure Description	Page no.
5.1.1	Use Case Diagram for Restaurant Management System	
5.2.1	Activity Diagram for User Login	
5.2.2	Activity Diagram for Manage Branch	
5.2.3	Activity Diagram for Manage Staff	
5.2.4	Activity Diagram for Manage Item	
5.2.5	Activity Diagram for Manage Cart	
5.2.6	Activity Diagram for Place Order	
5.2.7	Activity Diagram for Manage Gallery	
5.2.8	Activity Diagram for Manage Feedback	
5.2.9	Activity Diagram for Manage Expense	
5.2.10	Activity Diagram for Manage Event	

List of Tables

Table no.	Table Description	Page no.
	Data Dictionary Tables	
8.1.1	Test Cases for Manage User Login	
8.1.2	Test Cases for Manage Branch	

Chapter 1

Introduction

1.1 Problem Definition

The Restaurant Management System is used to solve various problems created with manual work which requires more man power which leads to certain issues such as table management, food order management, billing issues, calculation of sales (report issues). This system will give solution to all these problems together.

1.2 Initial Requirement Document

Title of the project	Online Restaurant Management System
Stakeholders involved in capturing requirements	Restaurant Owner, Restaurant Staff and Developer
Techniques used for requirement capturing	Interviewing, Brainstorming
Name of the person along with designation	-
Date	July, 2022
Users of the system	Owner, Branch Manager, Cashier, Order Man, Customer
Version	2.0
Consolidated list of initial requirements:	
<ol style="list-style-type: none">1. The owner has to login first to use the system.2. The owner shall be able to manage branches.3. The owner shall be able to manage menu.4. The owner shall be able to manage gallery.5. The owner shall be able to manage manager branch wise and shall be able to view staff details.6. The branch manager shall be able to manage branch staff.7. The owner/branch manager shall be able to manage events orders.8. The owner shall be able to manage tables.9. The branch manager/order man shall be able to manage the status of the tables (like Occupied/ Unoccupied/ Reserved).10. The branch manager/order man shall be able to manage customer, when the customer physically visits and order for the item(s) from the restaurant.11. The branch manager/order man shall be able to manage customer order.12. The customer shall be able to view the details about restaurant like its profile, location, etc.	

13. The customer shall be able to view and search (filter) the item category wise.
14. The customer shall be able to manage cart by adding the item(s) in the cart, by updating the quantity or by removing the item.
15. The customer shall be able to register and login into the system; and make payment before the order confirmation.
16. The customer shall be able to make payment using one of the online payment gateways for the online and offline orders or through cash on delivery only for offline.
17. The customer shall be able to manage pick-up timings of the order.
18. The system shall be able to generate bill.
19. The cashier shall be able to update the status of order, while received the payment of the order make by the customers.
20. The customer shall be able to view order history.
21. The customer shall be able to make cancellation of order before delivery, within 5 hours.
22. The system shall be able provide the availability of a particular item to the customer.
23. The customer shall be able to give feedback for the order.
24. The owner shall be able to view all the feedbacks given by the customers.
25. The system users shall be able to update their profile including their password.
26. The owner/branch manager shall be able to manage expenses.
27. The system should be able to generate reports like:
 - a. Details of all the orders:
 - i. Table wise
 - ii. Item Order Category wise
 - iii. Event wise
 - b. Details of all the customers
 - c. Status of all the event orders (Day/Date, Weekly, Monthly, Yearly)
 - d. Purchases and Sales Expenses

1.3 Project Objective

The restaurant management system facing issues in traditional methods so the main objective of system provide automation to the business. The system will manage finance of restaurant, which will bring transparency in restaurant. System will reduce the tedious work of employees and decrease manual work and errors. System will make task easier for the both side of user.

1.4 Product Scope

Online Restaurant Management System will be available 24*7 but customer can only order during restaurant hours. The system will be available only in the areas where the restaurant branches are located. Customer have to pick up their online order from restaurant.

In RMS only login user can do online order of Food Items. Without login into the System user can not able to order and make payment, user can only view all Items. Customer cannot cancel the order after specified time limit and if customer return that order it will not be accepted.

Chapter 2

Overall Description

2.1 Product perspective/Environment Description

Hardware Requirements

- Processor: Intel(R) Core(TM) i3 or more
- RAM: 512MB or more
- Hard Disk: 50MB or more
- Input Device: PC/Laptop/Mobile/Tablet
- Output Device: Printer/PC/Screen
- Communication Interface: LAN cable for printer

Software Requirements

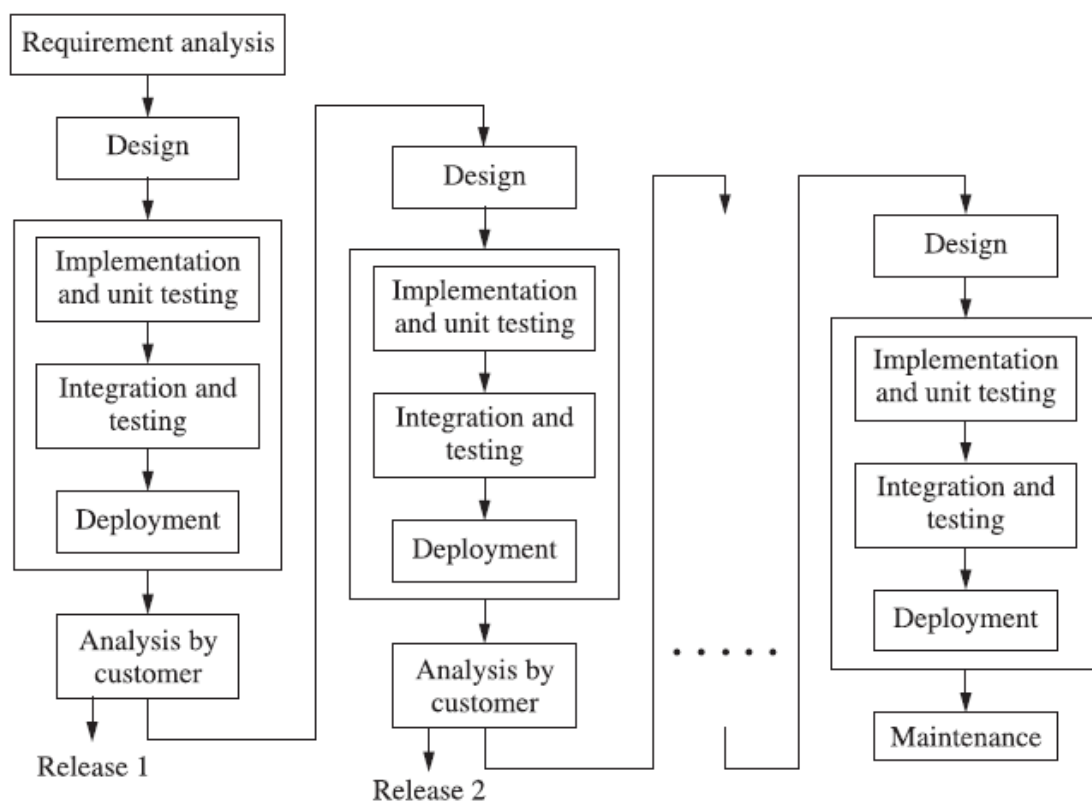
- Operating System : Microsoft Windows Platform, Linux Platforms, MAC OS
- Front-End : Html, CSS, JavaScript, Bootstrap
- Back-End : PHP, MySQL Server
- Tools Used : XAMPP(Apache), VS Code

Chapter 3

System Planning

3.1 Software Engineering Model:

- Iterative Enhancement Model is used to develop this project.



Chapter 4

System Specific Requirement

4.1 Functional Requirement:

Functional requirements define the fundamental action that system must perform.

Module 1: Manage User Login

RN	Description	Comments
FR 1	Owner, Cashier, Branch Manager, order man and Customer will be authenticated with their Username and password to login into the system.	Login page
FR 2	Enable a registered user to reset password. And also, if user forgets password, then OTP is sent through mail for user's verification.	Login Page Change Password Page Forgot Password page

Module 2: Manage staff

RN	Description	Comments
FR 1	This module will be managed by Owner and Branch Manager. The owner can add branch manager. The Branch Manager will be able to perform	Staff_View_Update_Search Page

	<p>following operation like:</p> <ul style="list-style-type: none"> • Add new staff • Update an existing staff information • View/Search staff details <p>The owner will able to view staff details.</p> <p>The system will assign a unique id (staff id) to each staff.</p>	
--	---	--

Module 3: Manage Menu Items

RN	Description	Comments
FR 1	<p>This module will be managed by Branch Manager.</p> <p>The branch manager will be able to manage many other modules like:</p> <ul style="list-style-type: none"> • Manage Item description • Manage Item Images • Manage Item price 	Item_Add_View_Update_Search Page
FR 2	<p>The system will assign a unique id (Item id) to each Item.</p> <p>Whenever any new product arrives, branch manager will be allow to record following details of the product like . . .</p> <p>Item name with its Category, Images, Price and Description etc.</p>	Item_Add_View_Update_Search Page
FR 3	<p>Manage Item:</p> <p>To manage this module branch manager will be</p>	Item_Add_View_Update_Search Page

	<p>able to perform following operations like:</p> <ul style="list-style-type: none"> • Add new item • Update an existing item • Active/De-active item <p>The user will be able to:</p> <ul style="list-style-type: none"> • View/Search Items 	
FR 4	<p>The owner and branch manager will be able to:</p> <ul style="list-style-type: none"> • View/Search item (by Category wise, Item_id wise, Name wise) 	Item_Add_View_Update_Search_Active_Deactive Page
FR 5	<p>Manage Category:</p> <p>In Manage Category module, the owner manager will be able to perform following operations like:</p> <ul style="list-style-type: none"> • Add new category(Branch wise) • Update an existing category • Active/De-active <p>The user will be able to:</p> <ul style="list-style-type: none"> • View/Search categories <p>The system will assign a unique id (Category id) to each category.</p>	catagory_Add_View_Update_Search Page
FR 6	<p>Manage Description:</p> <p>In manage item description module branch manager will be able to perform following operations like:</p> <ul style="list-style-type: none"> • Add description 	Item_Add_View_Update_Search Page

	<ul style="list-style-type: none"> Update Description 	
FR 7	Manage Image: In manage Image module branch manager will be able to perform following operations like: <ul style="list-style-type: none"> Add Item Image Update Item Image 	Item_Add_View_Update_Search Page
FR 8	Manage Price: In manage price module branch manager will be able to perform following operations like: <ul style="list-style-type: none"> Add Item price Update Item price 	Item_Add_View_Update_Search Page

Module 4: Manage Branches

RN	Description	Comments
FR 1	This module will be managed by Owner. The Owner will be able to manage many other modules like: <ul style="list-style-type: none"> Manage Branch Details Manage Branch Manager 	Item_Add_View_Update_Search Page
FR 2	Manage Branch Details: In manage branch module the Owner will be able to manage other modules like: <ul style="list-style-type: none"> Add branch details Update branch details 	Item_Add_View_Update_Search Page

	<ul style="list-style-type: none"> Delete branch details 	
FR 3	Manage Branch manager: The Owner will be able to manage managers of different branches. <ul style="list-style-type: none"> Add branch manager Manage the details of branch manager. View/Search manager information 	Branch manager_Add_View_Update _Search Page
FR 4	customer will be able to view every branch's details.	

Module 5: Manage Tables

RN	Description	Comments
FR 1	This module will be managed by branchmanager, cashier and order man. The branch manager will be able to manage Table Details.	Table_add_view_update page
FR 2	Manage Table Details: The system will assign a unique id (table id) to each Table. To manage this module branch manager will be able to perform following operations like: <ul style="list-style-type: none"> Add new Table Update Table Active/De-active Table 	Table_add_view_update page
FR 3	The order man, cashier will be able to manage	Table_order page

	table order status like occupied/unoccupied The branch manager and cashier will be able to view table order status.	
--	--	--

Module 6: Manage Customer

RN	Description	Comments
FR1	This module will be managed by Branch Manager, Order man, Cashier and Customer. The Branch manager and Order man will be able to manage customer, when the customer physically visits and order the items. The Order man, Cashier will be able to perform following operations like: <ul style="list-style-type: none">▪ Add new customer (order) The customer shall also be able to register himself and edit his/her profile. The system will assign a unique id (customer id) to each customer.	Customer_Registratio n(Add)_ Page Customer_ View_Update_Search_ Active_De-active Page
FR2	The owner will be able to: <ul style="list-style-type: none">▪ View/Search customer details	Customer_ View_Update_Search_ Active_De-active Page
FR3	The customer will be able to view the details about restaurant like its profile, location, etc.	AboutUs Page

Module 7: Manage Cart

RN	Description	Comments
-----------	--------------------	-----------------

FR1	<p>This module will be managed by Customer and order man.</p> <p>The customer and order man will be able to perform following operations like(login required):</p> <ul style="list-style-type: none"> ▪ Add to cart ▪ Update cart items ▪ Removed cart items ▪ View Cart history 	Add_To_Cart Page
------------	---	------------------

Module 8: Manage Customer Order

RN	Description	Comments
FR1	<p>This module will be manage by Branch manager, Cashier Order man and Customer.</p> <p>When the customer physically visits the restaurant and if he/she wants to order the items(s), then after registering the customer, the Orderman and cashier will be able to perform following operations like:</p> <ul style="list-style-type: none"> ▪ Add customer's order ▪ Update customer's order ▪ Cancel (Delete) customer's order <p>The system will assign a unique id (order id) to each customer's order.</p>	<p>Customer_Order_Add Page</p> <p>Customer_Order_View_Update_Search_Delete Page</p>
FR2	<p>The Branch Manager, Cashier will be able to:</p> <ul style="list-style-type: none"> ▪ View/Search customer order(s) 	<p>Customer_Order_View_Update_Search_Delete Page</p>
FR3	<p>After adding the product into cart, if the customer confirms his/her order, then after login into the system the customer will be able to perform the following operations like:</p> <ul style="list-style-type: none"> ▪ Confirm order ▪ Cancel (Delete) order ▪ View order 	<p>Customer_Order_Add Page</p> <p>Customer_Order_View_Update_Search_Delete Page</p>

FR4	The customer will be able to view order history.	Customer_ Order_History Page
FR5	The customer will be able to cancel the order before delivery, within limited time period.	Customer_Order_ Cancel Page

Module 9: Manage Event

RN	Description	Comments
FR1	<p>This module will be managed by Branch manager and Owner.</p> <p>When the customer gives event order the Owner and Branch Manager following operations like:</p> <ul style="list-style-type: none"> • Add Event • Update Event • Cancel Event <p>The system will assign a unique id (event id) to each customer's order.</p>	Owner_event page
FR2	<p>The Branch Manager and Owner will be able to view event details like:</p> <ul style="list-style-type: none"> • Event Date and Time 	Owner_Ecent page Branch Manager_event pae Cashier_Dashboard

Module 10: Generate Bill

RN	Description	Comments
FR1	After the confirmation of order placed by the customer the system will be able to generate bill in “.pdf” with all the necessary details of the Customer.	Customer_Order_Add Page “.pdf” Format (Open-source plugin)
FR2	The system will also allow the Restaurant(owner) to print the bill with all the necessary details of the Customer.	Customer_Order_Add Page

		".pdf" Format (Open-source plugin)
FR3	The system will assign a unique id (bill no) to each customer's order bill.	Customer_Order_Add Page ".pdf" Format (Open-source plugin)

Module 11: Manage Payment

RN	Description	Comments
FR1	After the generation of bill, the customer shall be able to make payment using one of the online payment gateways (compulsory in online order) or through cash on delivery. The system will assign a unique id (payment id) to each customer's order bill.	Payment Page

Module 12: Manage Gallery

RN	Description	Comments
FR1	This module will manage by Owner. The owner will be able to manage following operation category wise, like: <ul style="list-style-type: none">• Insert Image• Remove Image	Admin_Gallery Page
FR2	Gallery image and category will ben managed by owner.	Admin_Gallery Page

Module 13: Manage Expenses

RN	Description	Comments
FR1	<p>This module will be managed by Owner and Branch Manager.</p> <p>The owner and Manager will be able to do operations like:</p> <ul style="list-style-type: none"> • Insert Expense • Update Expenses • Delete Expenses 	Expenses Page
FR2	<p>The owner and branch manager will be able to see information like:</p> <ul style="list-style-type: none"> • Expense Value • Expense Type 	

Module 14: Manage Feedback

RN	Description	Comments
FR1	The customer will also be able to give feedback for the Restaurant. The system will assign a unique id (feedback id) to each customer's feedback.	Feedback Page
FR2	The feedback which is given by the customer and also be viewed by the Owner.	Feedback_View Page

Module 15: Generate Report

RN	Description	Comments
FR1	<p>The system should be able to generate reports like:</p> <ol style="list-style-type: none"> Item Order Category wise Event(Day/Date, Weekly, Monthly, Yearly wise) Expense and Sales Report 	Generate_Report Page

4.2 Non-Functional Requirement:

Non-functional requirements are often called qualities of a system.

RN	Description	Comments
NFR1	The application will be user-friendly and easy to operate, the functions will be easily understandable.	Usability
NFR2	The application will be Password protected. The Users will have to enter correct username and password to access the system.	Security
NFR3	The system will be designed in a maintainable manner. It will be easy to add new requirements in the any individual modules.	Maintainability
NFR4	The application will be simple in operations.	Simplicity

Chapter 5

System Analysis

5.1 Use case Diagram:

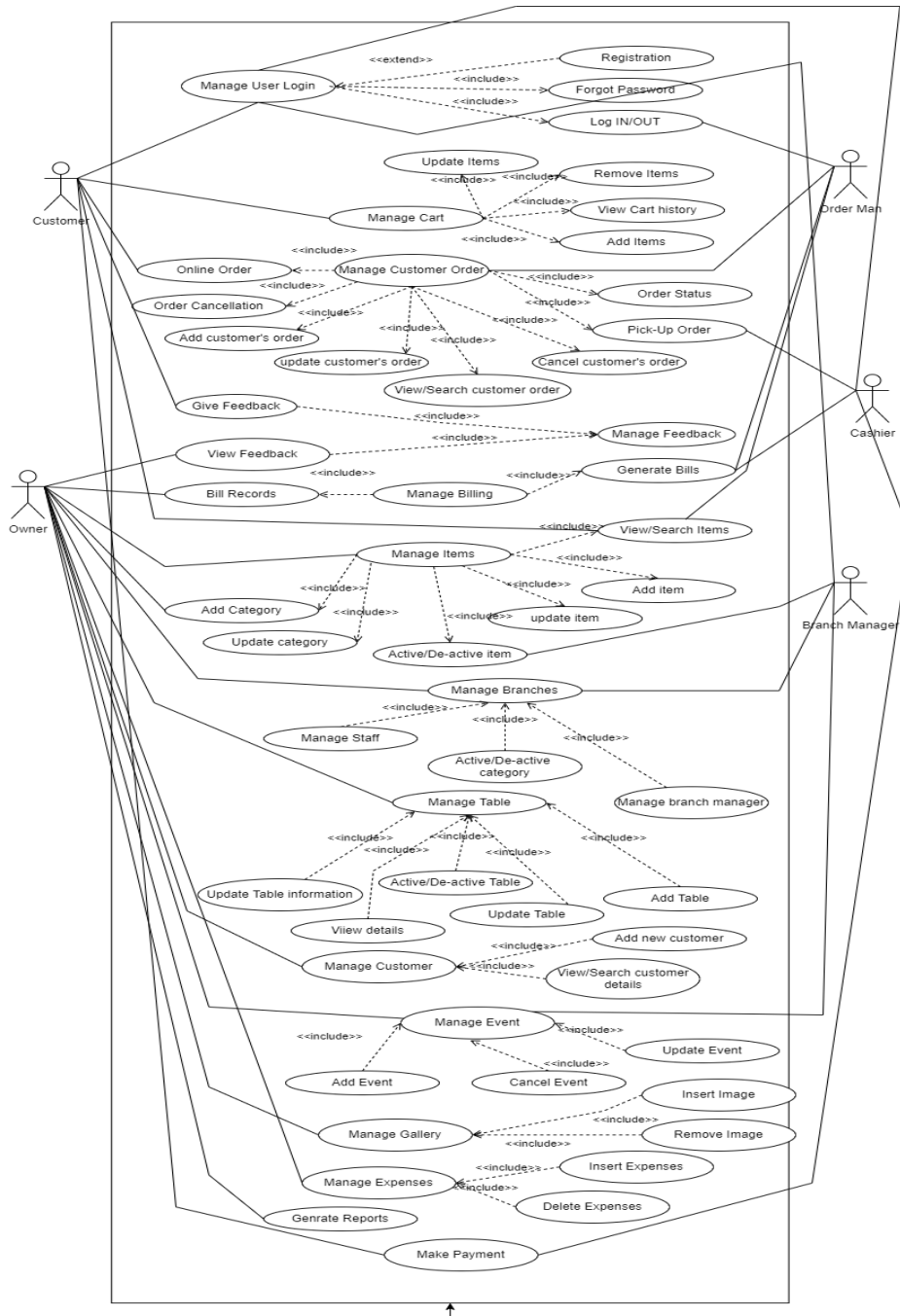
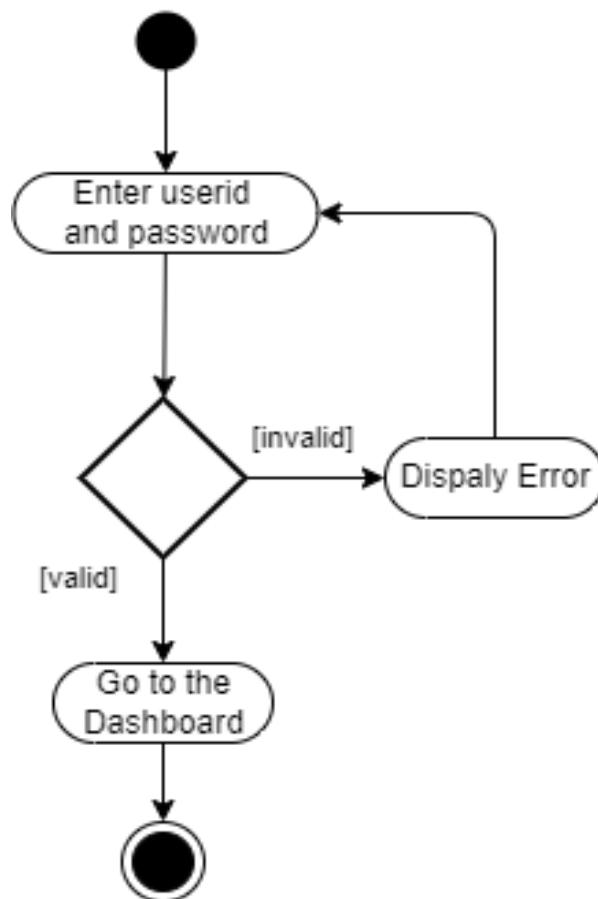
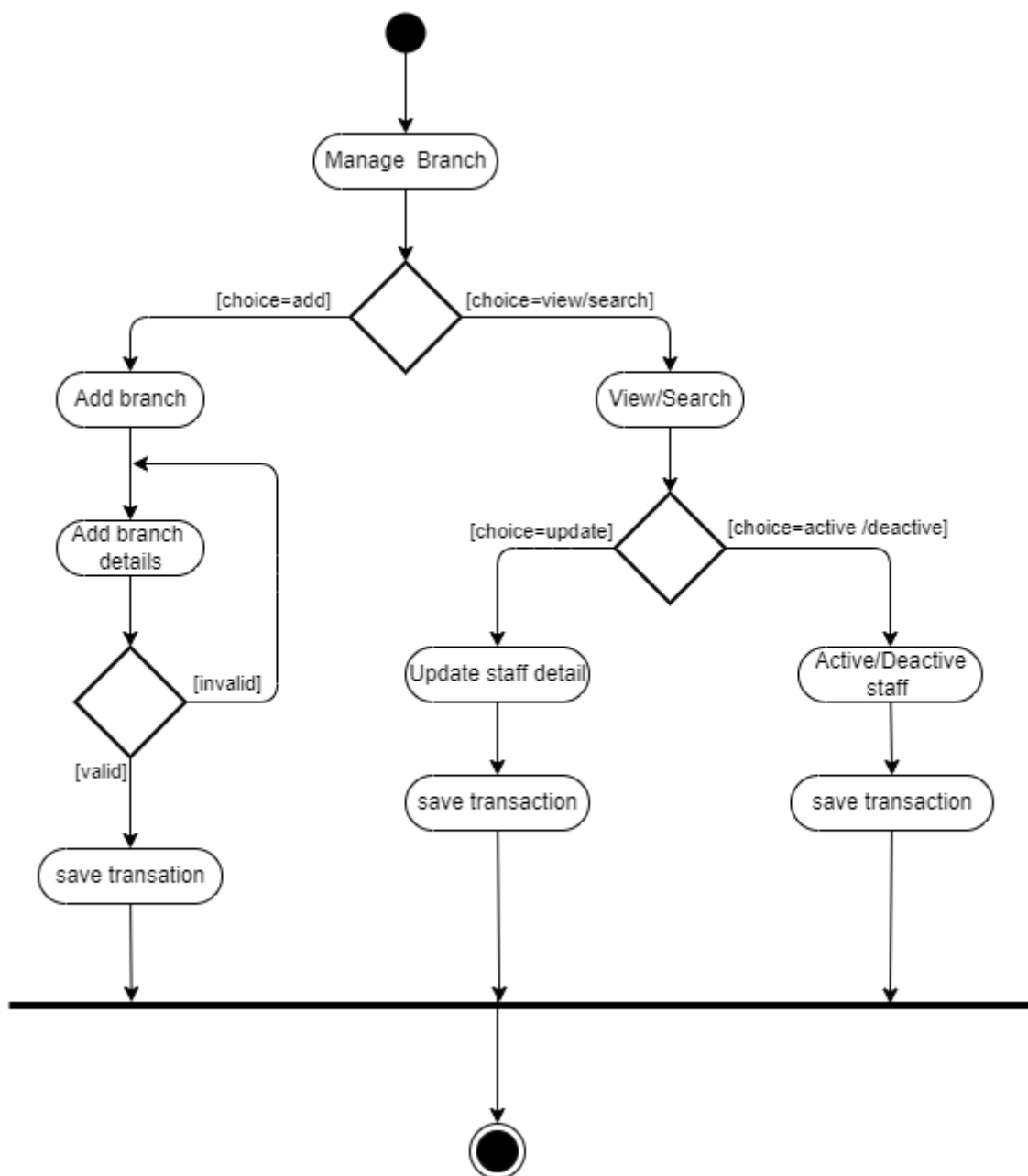


Fig 5.1.1 Use Case Diagram for Online Boutique Management System

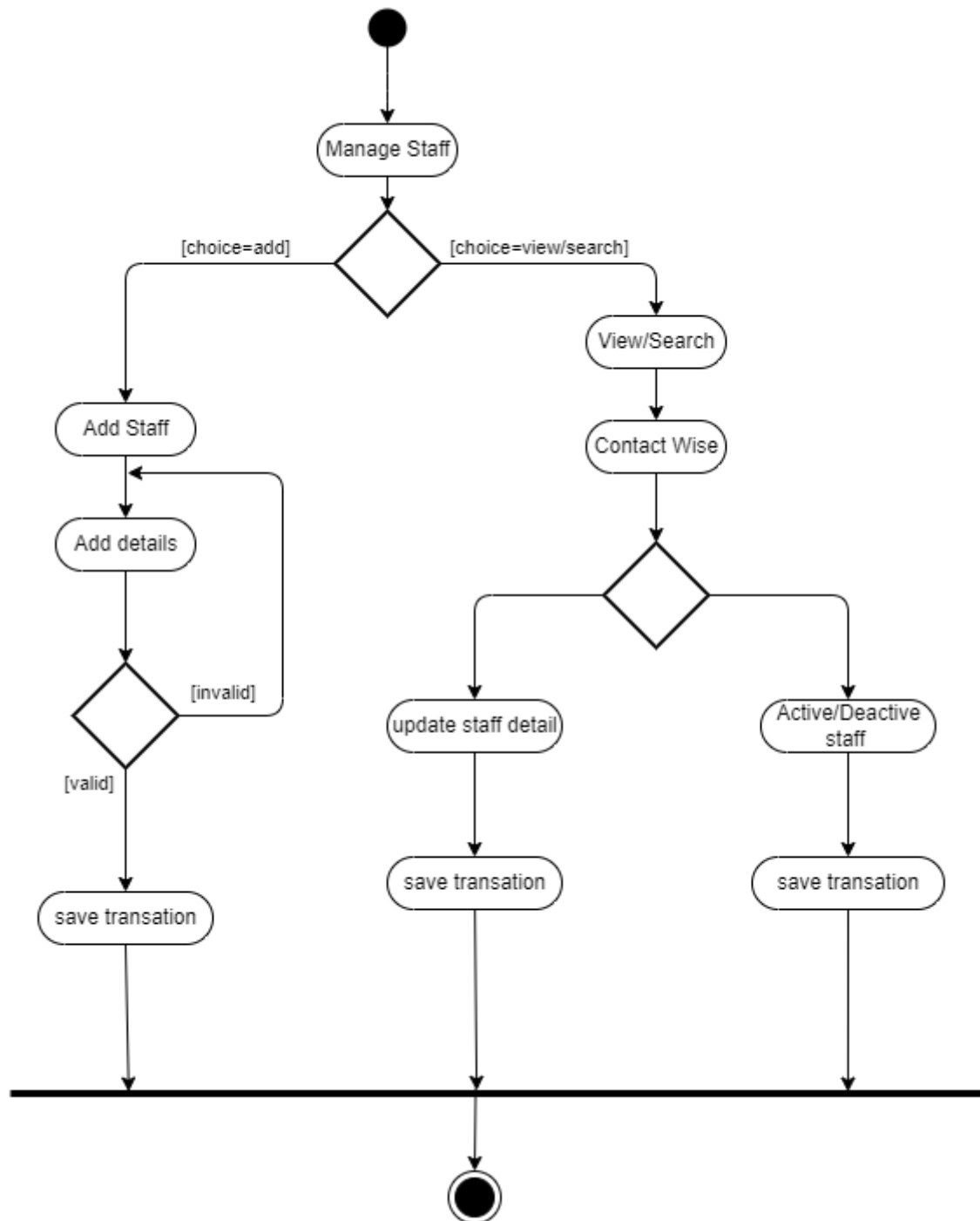
5.2.1 Activity diagram for user login



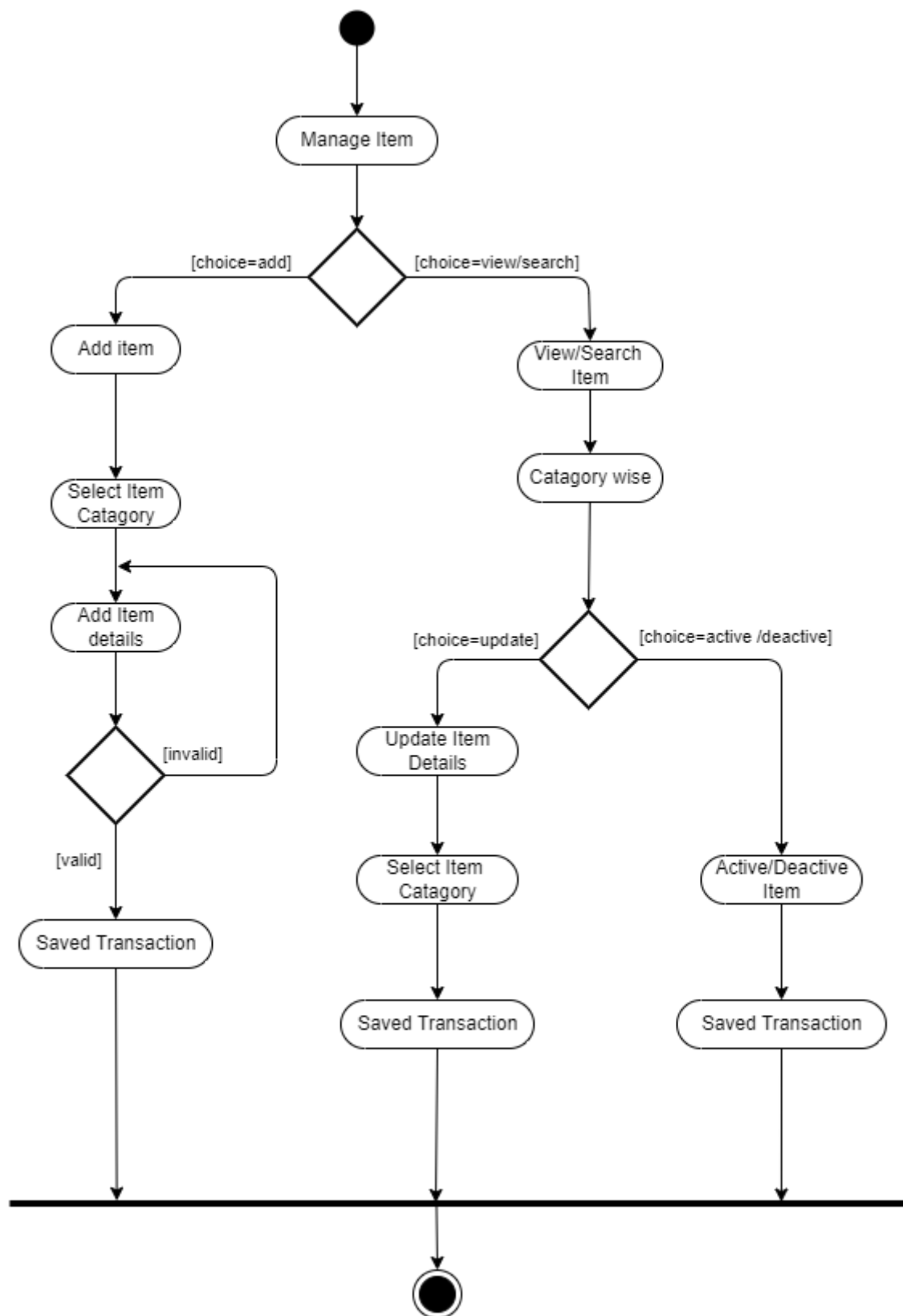
5.2.2 Activity diagram for manage branch



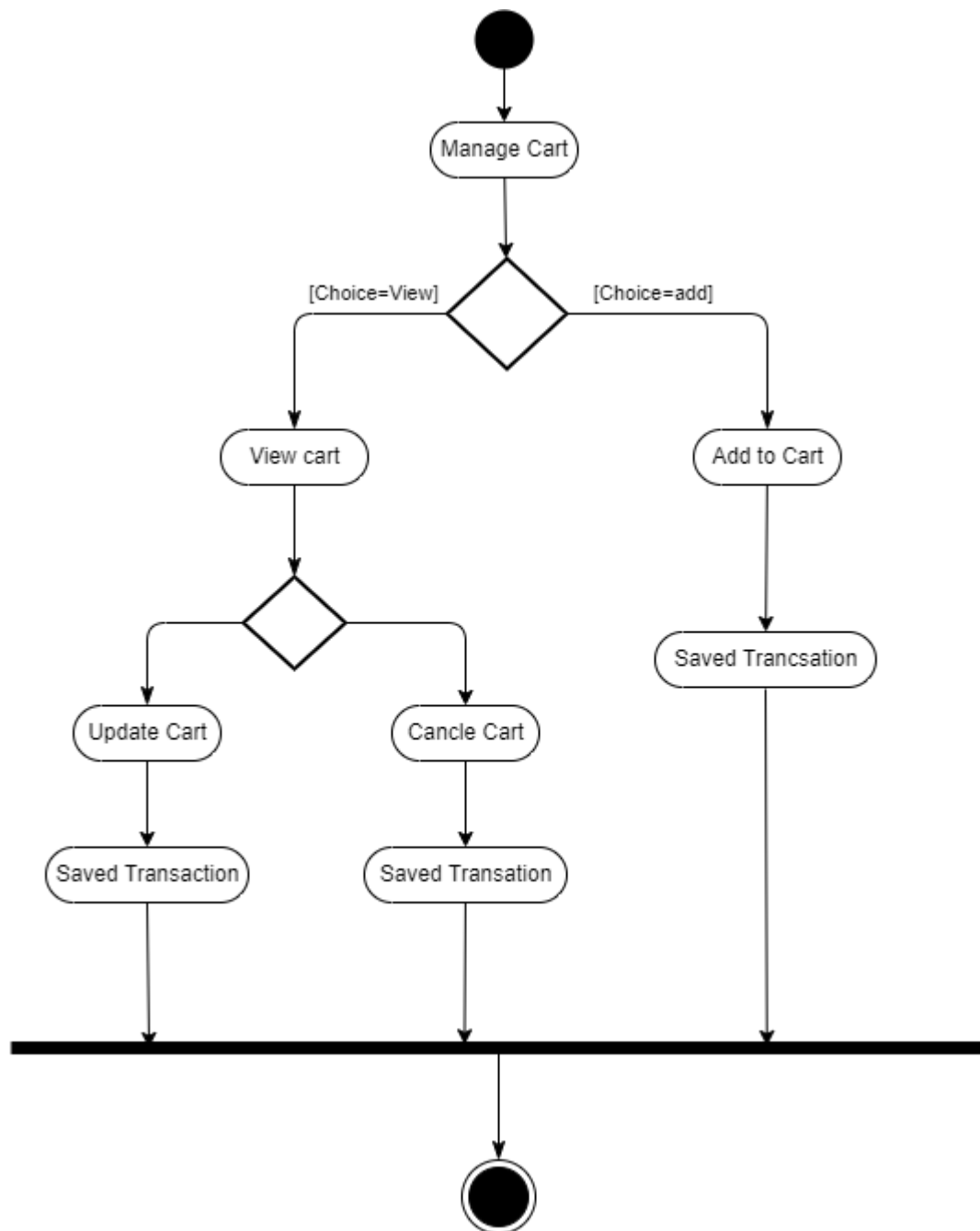
5.2.2 Activity diagram for manage staff



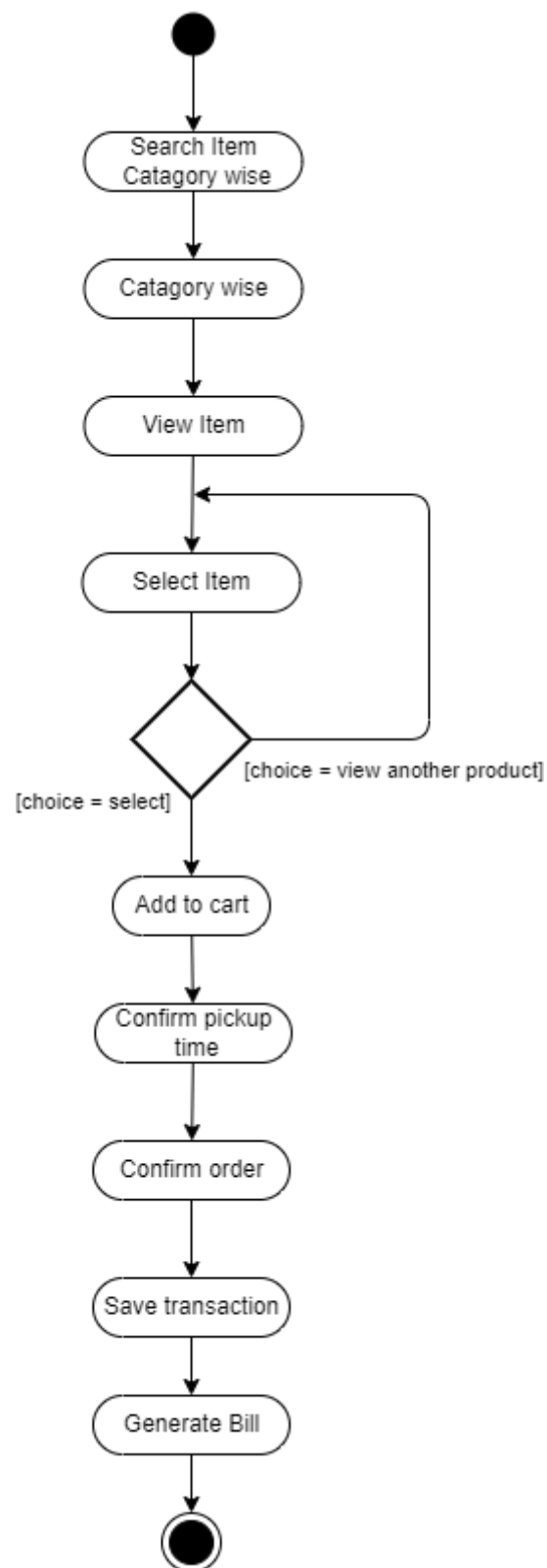
5.2.2 Activity diagram for manage item



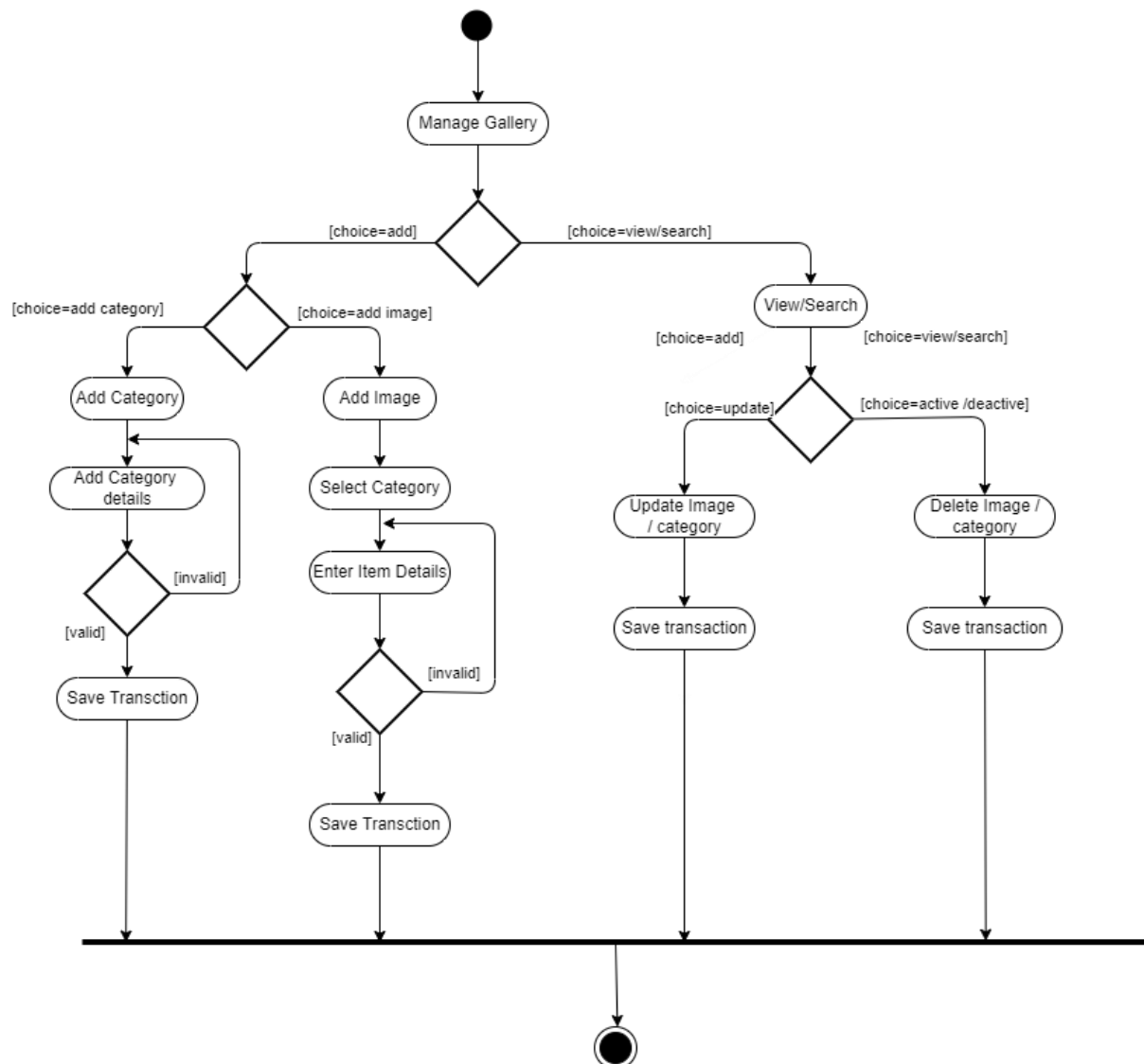
5.2.2 Activity diagram for manage cart



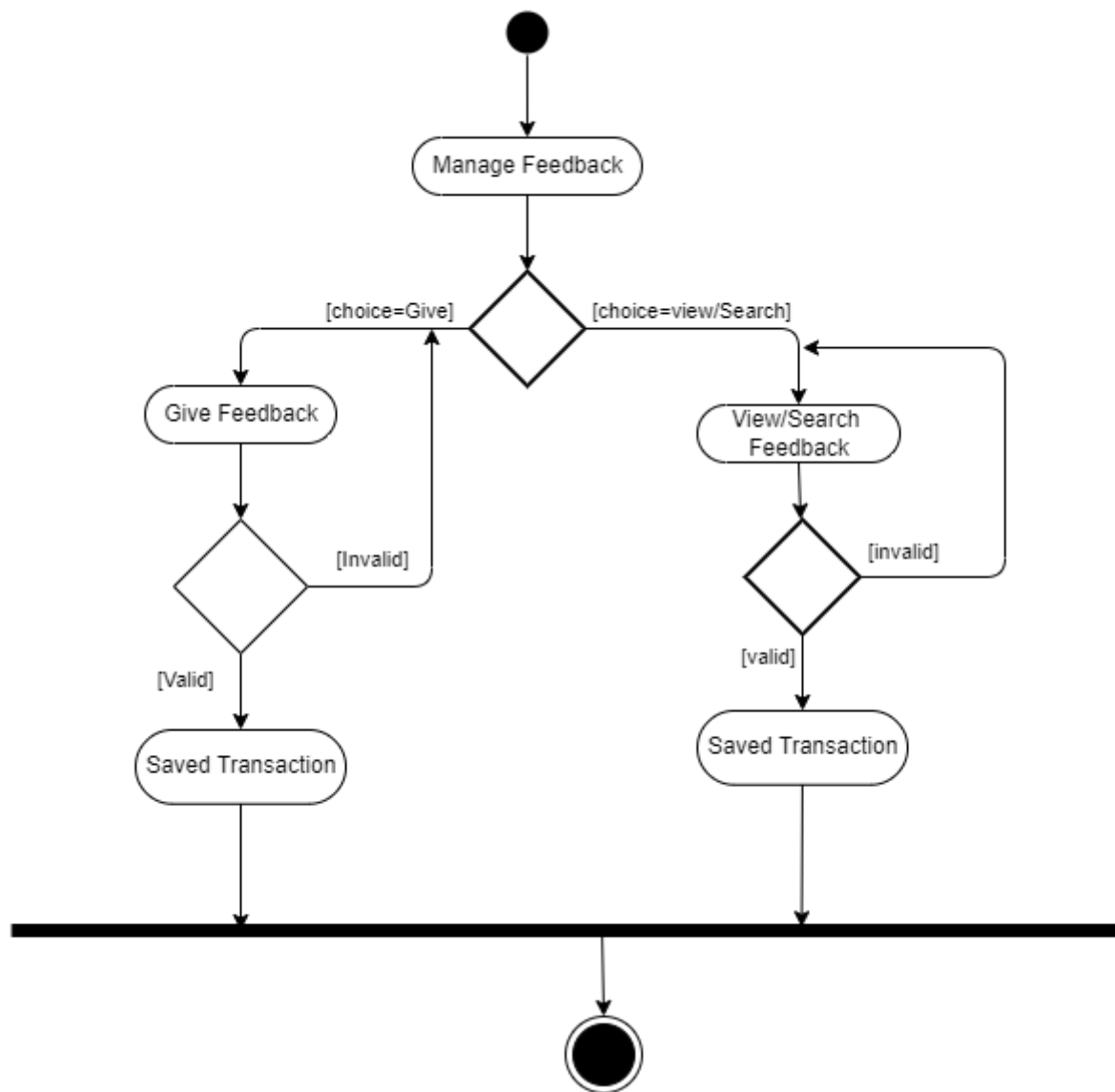
5.2.2 Activity diagram for place an order



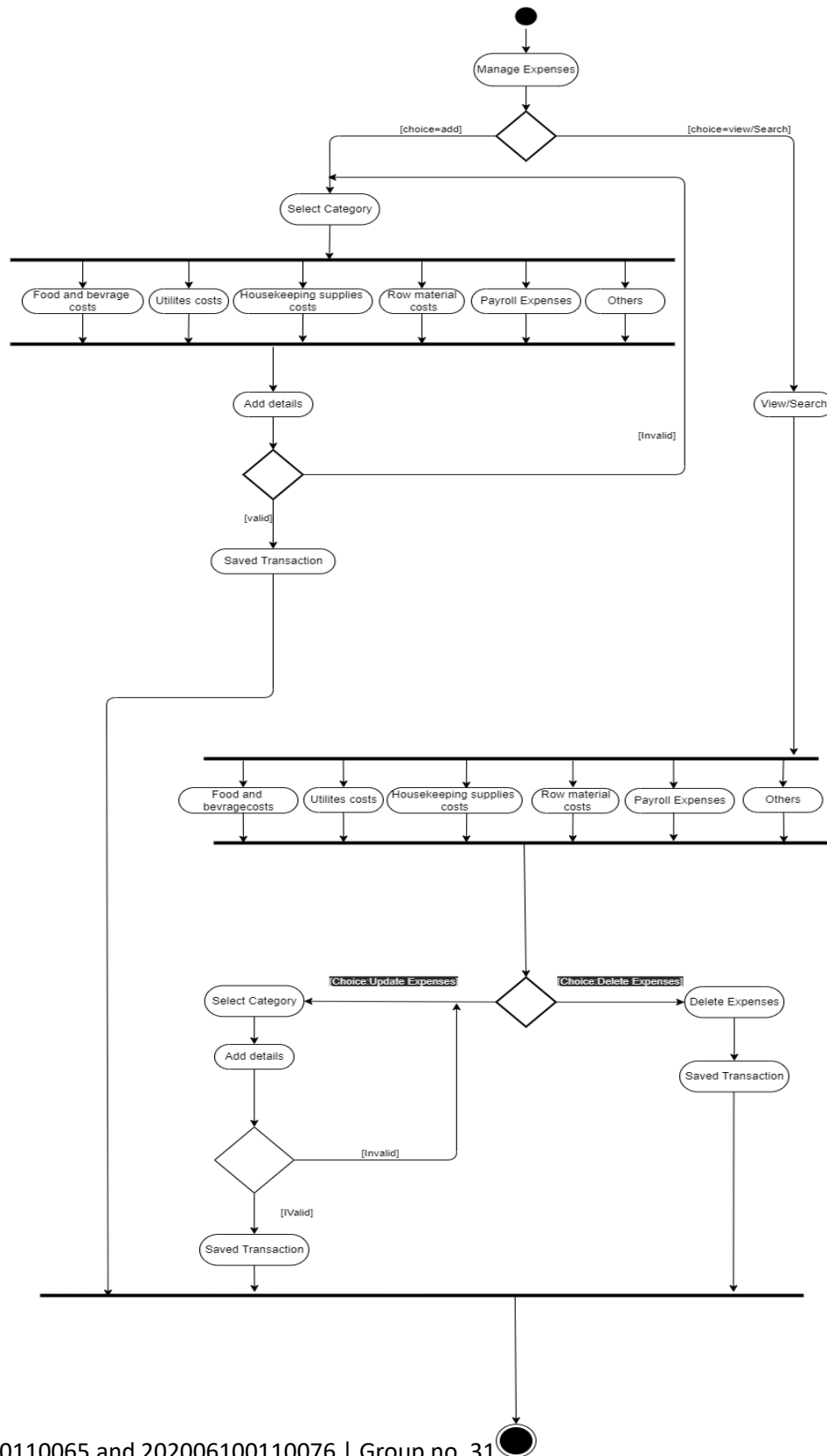
5.2.2 Activity diagram for gallery



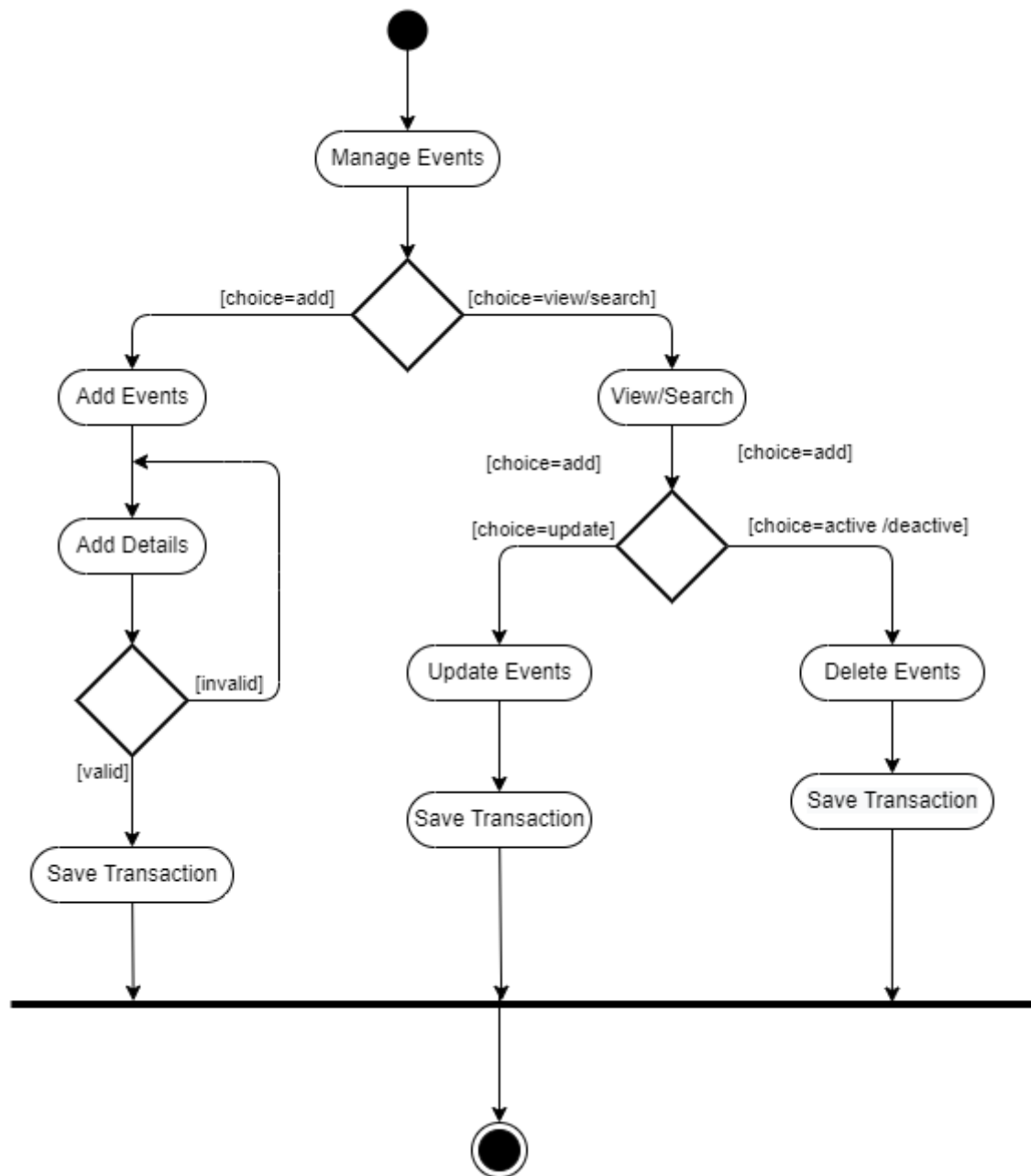
5.2.2 Activity diagram for manage feedback



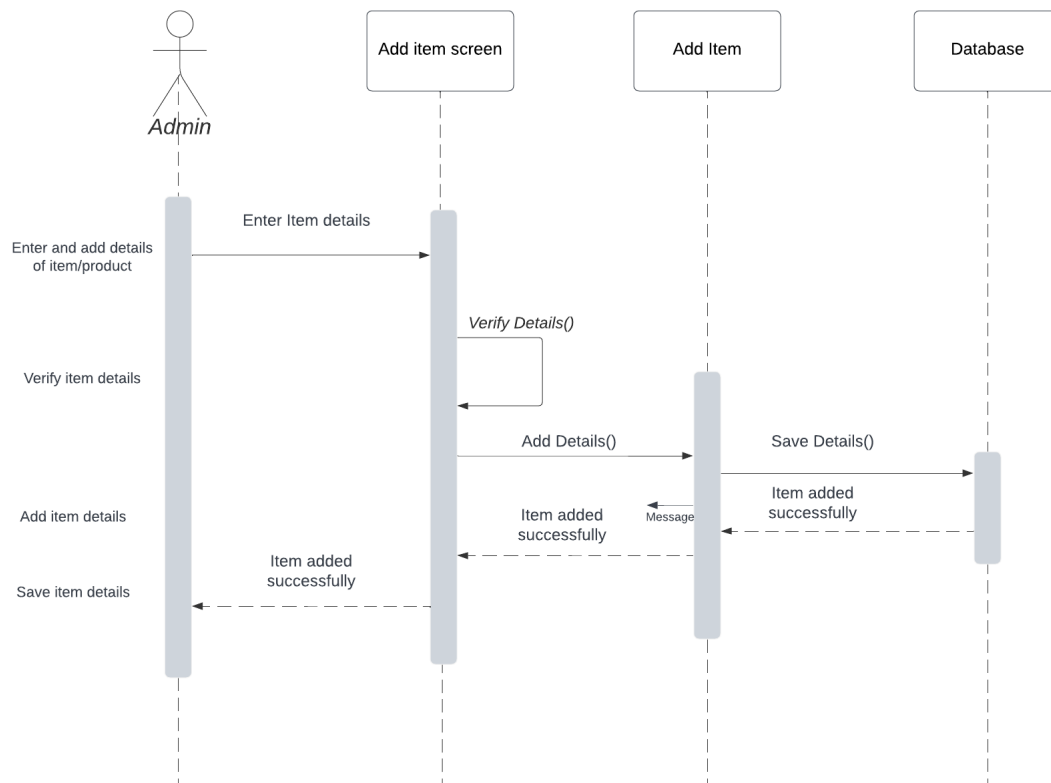
5.2.2 Activity diagram for manage expense



5.2.2 Activity diagram for manage event



5.3.1 Sequence Diagram for “adding a product”



Chapter 6

System Design

1.1 Database Design:

1.1.1 Database Schema:

➤ Common Tables :

- tblCity(cityId[PK], name, status)
FD: cityid-> {name}
- tblPincode(code[PK],cityId[FK])
FD: code-> {cityid[FK]}
- tbluserRole(userRoleId[PK],userRole, status)
FD: userRoleId -> {role,status}

1) Manage User login:

- tbluser (userId[PK], role, name, gender, address, pincode, contactno, emailed, doj, agentName, agentContactNo, salary, branchcode[FK][tblbranch], password, status, datetime)
FD: userId -> {role, name, gender, address, pincode, contactno, emailed, doj, agentName, agentContactNo, salary, branchcode[FK], password, status, datetime }

2) Manage Branch:

- tblbranch(branchcode[PK], name, location, brContactno, status)
FD: branchcode-> {name, location, brContactno, status}

3) Manage MenuItem:

- tblItemCategory (ItemCategoryId[PK], name, categoryImg, branchId[FK][tblbranch], status)
FD: CategoryId-> {name, categoryImg, branchId[FK], status}
- tblItem(itemId[PK], name, imagepath, description, price, ItemCategoryId[FK][tblItemCategory], status)
FD: ItemId-> {name, imagepath, description, price, ItemCategoryId[FK], status}

4) Manage Table:

- tblTable(tableNo[PK], tablecode, branchcode[FK][tblbranch], status)
FD: tableNo-> {tablecode, branchcode[FK], status}

5) Manage Cart:

- tblCart(cartId[PK], userId [FK][tbluser], itemId[FK][tblItem], quantity, description, amount[price*quantity])
FD: CartId-> { customerId [FK], itemId[FK], quantity, description, amount}

6) Manage Order:

- tblOrder(orderno[PK], datetime, cartId[FK][tblCart], itemName, price, quantity, orderType, orderStatus, totalAmount, discount, paymentType)
FD: orderno -> {datetime, cartId[FK], itemName, price, quantity, orderType, orderStatus, totalAmount, discount, paymentType}
- tblCustomerTable(CtableId[PK][FK][tblstaff], customerName, contactNumber, orderno[FK][tblOrder], tablecode[FK][tblTable])
FD: CtableId-> { customerName, contactNumber, orderno[FK], tablecode[FK]}
- tblPromoCode(PromoID[PK], PromoCode, ExpDate, BranchCode[FK][tblbranch], Status)
FD: PromoID-> { PromoID[PK], PromoCode, ExpDate, BranchCode[FK], Status }

7) Manage Event:

- tblEvent (EventId[PK], Eventtype, StartDateTime, EndDateTime, customerName, contactno, datetime, status)
FD: EventId-> { Eventtype, StartDateTime, EndDateTime, customerName, contactno, datetime, status}

8) Manage Gallery:

- tblGalleryCategory(GalleryCategoryId[PK], name, imagepath, status)
FD: GalleryCategoryId -> {name,imagepath, status}
- tblGalleryImage(ImageId[PK], imgpath, GalleryCategoryId [FK][tblGalleryCategory], status)
FD: ImageId-> { imgpath, GalleryCategoryId [FK], status}

9) Manage Expenses:

- tblExpense(expancelId[PK], expenceType, expenceDetail, expenceValue, branchcode, date)
FD: expancelId->{ expenceType, expenceDetail, expenceValue, branchcode, date}

10) Manage Feedback:

- tblFeedback(FeedbackId[PK],userId[FK][tbluser],branchcode[FK][tblbranch], feedbacktext, datetime)
FD: FeedbackId ->{ userId [FK], branchcode[FK], feedbacktext, datetime}
- tblContactUs (Contact_Id[PK], Contact_name, Contcat_mobile , message_text, datetime)
FD: contact_Id ->{ Contact_name, Contcat_mobile , message_text, datetime }

6.1.2 Data Dictionary:**->Common Tables:**

- tblCity:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	cityId	int	-	Primary Key, Auto increment	Identifies Unique id of City.
2	name	Varchar	50	Not Null, Unique	Specifies Unique name of city.

- tblPincode:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	code	int	-	Primary Key	Identifies Unique code of city.
2	cityId	int	-	Foreign key	Referred from tblCity(cityId)

- tbluserRole:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	userRoleId	int	-	Primary Key, Auto increment	Identifies Unique id of user role.
2	userRole	Varchar	30	Not Null, Unique	Specifies Unique user role.
3	status	boolean	-	Not Null	Activate/Deactivate The field

- tblContactUs:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Contct_id	Int	-	Primary Key, Auto increment	Identifies unique id of contcatus list
2	Contact_name	Int	-	Foreign Key	Indentifies name of person who want to contact
3	Contact_moblie	varchar	-	Foreign Key	Indentifies mobile no of person who want to contact
4	Message	Varchar	255	Not null	Identifies message text
5	datetime	Int	-	Not null	Identifies date and time when message is sent

1) Manage User login:

- tbluser :

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	userid	Int	-	Not null, unique	Identifies unique id of user.
2	role	int	-	Not null	Referred from tbluserRole (userRoleId)
3	name	Varchar	-	Not null	Identifies name of User
4	gender	Boolean	-	Not null	Specifies gender of user
5	address	Varchar	256	-	Identifies user address
6	pincode	int	-	Not null	Identifies pincode of area in city
7	contactno	bigint	-	Not null	Identifies contactno of user
8	emailid	varchar	350	-	Identifies email of user
9	doj	date	-	Not null	Identifies the user date of join
10	salary	float	-	-	Identifies staff salary
11	branchcode	int	-	Foreign key	Referred from tblbranch (branchcode)
12	password	varchar	255	Not null	Identifies unique Password of user
13	status	int	-	Not null	Identifies if user account is delete or not
14	datetime	datetime	-	Not null	Identifies the date and time of account created

2) Manage Branch:

- tblbranch:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	branchcode	varchar	-	Primary key, Auto Increment	Identifies Branch code of restaurant branch
2	name	varchar	100	Not null	Identifies name of branch
3	Address	varchar	150	Not null	Identifies location of branch
4	brContactno	bigint	-	Not null	Identifies Contact number for restaurant branch
5	status	boolean	-	Not Null	Activate/Deactivate The field

3) Manage Menu Item:

- tblItemCategory:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	ItemCategory Id	Int	-	Primary Key	Identifies Unique id of menucategory
2	name	Varchar	100	Not Null	Identifies Unique name of category
3	branchId	Int	-	Foreign Key	Referred from tblbranch(barchId)
4	categoryImg	longblob	-	Not null	Identifies category image
5	status	boolean	-	Not Null	Activate/Deactivate The field

- tblItem:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	itemId	Int	-	Primary Key	Identifies Unique id of menu item
2	name	Varchar	100	Not null	Identifies name of menuitem
3	image	longblob	-	Not null	Identifies imagepath of item
4	description	Varchar	150	Not null	Identifies description of item

5	price	float		Not null	Identifies price of item
6	ItemCategory Id	Int	-	Foreign Key	Referred from tblItemCategory (ItemCategoryId)
7	status	boolean	-	Not Null	Activate/Deactivate The field

4) Manage Table:

- tblTable:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	tableNo	int	-	Primary Key Auto Increment	Identifies unique no of table
2	tablecode	varchar	10	Not null	Identifies tablecode of table
3	branchcode	varchar	-	Foreign Key	Referred from table tblbranch
4	status	boolean	-	Not Null	Activate/Deactivate The field

5) Manage Crat:

- tblCart:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	cartId	int	-	Primary Key	Identifies unique id of cartid
2	userId	int	-	Not null	Referred from table tbluser
3	itemId	Int	-	Not null	Referred from table tblitem
4	quantity	Int	-	Not null	Identifies quantity of item
5	amount	float	-	Not null	Identifies amount (total amount)
6	Description	varchar	100	Not null	Identifies item customization details

6) Manage Order:

- tblOrder:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	orderno	Int	-	Primary Key	Identifies unique number of order
2	datetime	Datetime	-	Not null	Identifies date and time of order
3	cartId	Int	-	Foreign Key	Referred from table tbl
4	itemname	Int	-	Not Null	Identifies item name
5	price	float	-	Not null	Identifies item price
6	quantity	Int	-	Not null	Identifies item quantity
7	orderType	boolean	-	Not null	Identifies order type
8	totalAmount	float	-	Not null	Identifies total amount
9	discount	float	-	Not null	Identifies order discount
10	paymentType	boolean	-	Not null	Identifies payment type

- tblCustomerTable:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	CtableId	Int	-	Primary Key, Auto increment	Identifies Unique customer table id
2	Customer Name	Varchar	100	Not null	Identifies customer name
3	Contact Number	Bigint	-	Not null	Identifies customer contact number
4	orderno	Int	-	Foreign Key	Referred from table tblorder
5	tablecode	Int	-	Foreign Key	Referred from table tblTable(tablecode)

- tblPromoCode:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	CodeID	Int	-	Primary Key, Auto increment	Identifies Unique promocode id
2	PromoCode	Varchar	100	Not null	Identifies promocode text
3	ExpDate	Date	-	Not null	Identifies end date of promocode
4	BranchCode	varchar	-	Not null	Referred from table tblbranch(branchcode)
5	Status	Boolean	-	Not null	Identifies code status

7) Manage Event:

- tblEvent:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	EventId	Int	-	Primary Key, Auto increment	Identifies unique event no
2	EventTitle	Varchar	120	Not null	Identifies Event type or description
3	StartDatetime	Datetime	-		Identifies event starting date and time
3	EndDatetime	Datetime	-		Identifies event ending date and time
4	customerName	Varchar	100	Not null	Identifies Customer name
5	contactno	Bigint	-	Not null	Identifies Customer contact no
6	Branch Code	varchar	-	Not null	Identifies branch
7	datetime	datetime	-	Not null	Identifies date and time when event order is given

8) Manage Gallery:

- tblGalleryCategory

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	GalleryCategory Id	Int	-	Primary Key, Auto increment	Identifies unique id of category
2	name	varchar	50	Not null	Identifies category name
3	imagepath	varchar	50	Not Null	Identifies category image path
4	status	Boolean	-	Not Null	Activate/Deactivate The field

- tblGalleryImage:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	Imageid	int	-	Primary Key, Auto increment	identifies unique id of image
2	Imagepath	varchar	-	Not null	Identifies path of image
3	GalleryCategory Id	int	-	Foreign Key	Referred from
4	status	boolean	-	Not Null	Activate/Deactivate The field

9) Manage Expenses:

- tblExpense:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	expenseId	Int	-	Primary Key Auto increment	Identifies unique id of expense
2	expenseType	Varchar	100	Not null	Identifies Expense type
3	expenseDetail	Varchar	150	Not Null	Identifies Expense detail
4	expenseValue	Float	-	Not null	Identifies expanse value
5	branchcode	varchar	-	Foreign Key	Referred from table tblbranch (branchcode)
6	date	Date	-	Not null	Identifies expense date

10) Manage Feedback:

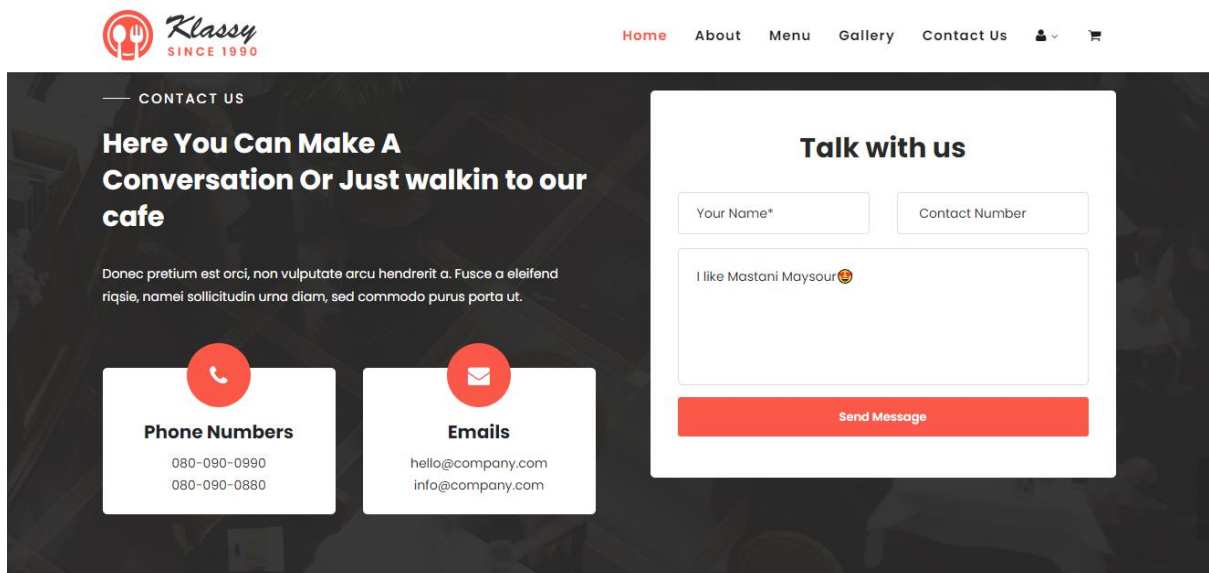
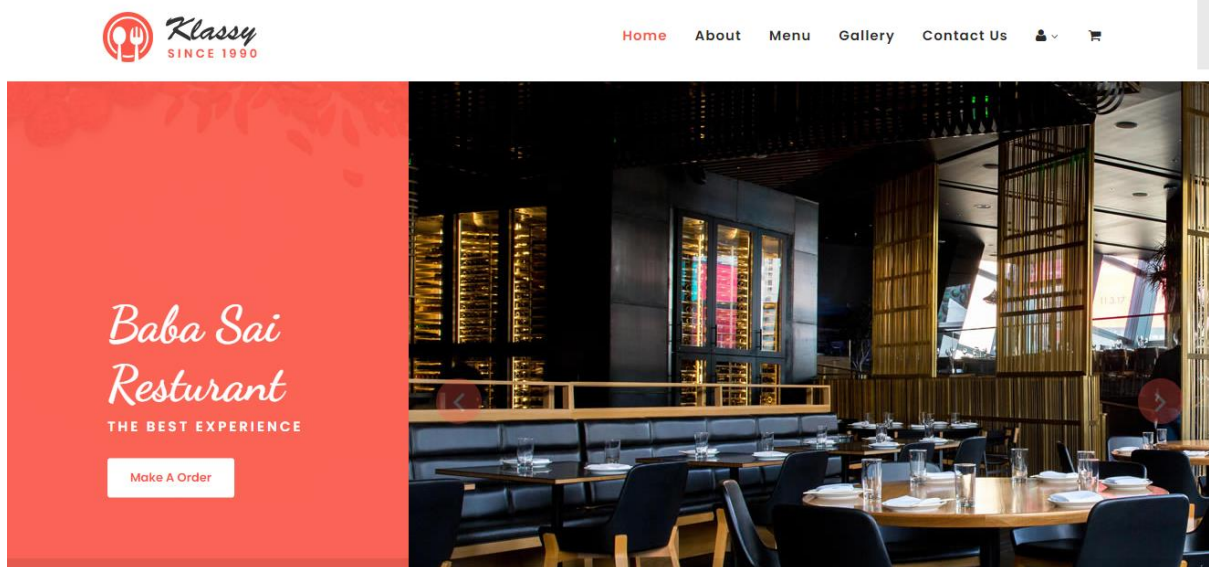
- tblFeedback:

Sr. No.	Field Name	Data Type	Size	Constraints	Description
1	FeedbackId	Int	-	Primary Key, Auto increment	Identifies unique id of feedback
2	userId	Int	-	Foreign Key	Referred from
3	Branchcode	varchar	-	Foreign Key	Referred from
4	Feedbacktext	Varchar	255	Not null	Identifies feedback text
5	datetime	Int	-	Not null	Identifies date and time when feedback is given

Chapter 7

System Implementation

7.1 Screenshots:



DeskApp Search Here Ross C. Lopez

PromoCode
Home > PromoCode

Branch Details

PromoCode [Add New PromoCode](#)

Show 10 entries Search:

PromoCode	Discount	Branch Code	Expection Date	Status	Update	Delete
ASASAA	74.00	152	2022-12-07	Deactive	Edit	Delete
FAB20	23.00	6	2022-12-14	Active	Edit	Delete

[Data Updated Successfully](#)

DeskApp Search Here Ross C. Lopez

Calendar
Home > Calendar

< > today **December 2022** month week list [Schedule Form](#)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	1	2	3
4	5	6	7	8	9	10
3:18p OK						
3:19p LP	3:17p HII	3:37p KIL				
3:23p KJNM		3:40p Sadi	3:38p BIL	3:42p JI		
			9:31p KAI			

Schedule Form

Title

Description

Customer name:

Contact number

[Home](#) [About](#) [Menu](#) [Gallery](#) [Contact Us](#)

— OUR MENU

**Our selection of food
with quality taste**



Search Here



Ross C. Lopez

Manage Gallery

[Home](#) > [Manage Gallery](#)

Image Category

☐ Check Me For Add Category☐ Check Me For Delete Category

Add Image Category

Add

Delete Image Category

Choose...


Delete

☐ Check Me For Enable Category☐ Check Me For Disable Category




Select Category Here...

Delete


Select Category





Search Here





Ross C. Lopez


 Dash Borad


 Manage Item


 Manage Expenses


 Invoice

 Contact Us

 Feedback

 Manage Gallery

 Manage table


 Manage Branch

INVOICE

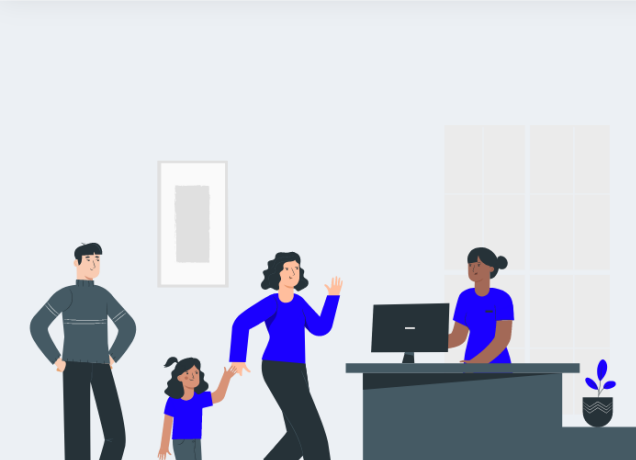
Client Name
Date Issued: 10 Jan 2018
Invoice No: 4556

Your Name
Your Address
City
Postcode

Description	Rate	Hours	Subtotal
Website Design	\$20	100	\$2000
Logo Design	\$20	100	\$2000
Website Design	\$20	100	\$2000
Logo Design	\$20	100	\$2000



Login



1

Basic Account Credentials


Email Address*


Username*

Password*


Confirm Password*


Submit

Register



Login To DeskApp






[Forgot Password](#)


[Sign In](#)

OR

[Register To Create Account](#)


[Enter Your Details](#)

Login



Forgot Password

Enter your email address to reset your password



[Submit](#) OR [Login](#)

[Home](#) [About](#) [Menu](#) [Gallery](#) [Contact Us](#) [User](#) [Cart](#)

SOLID WOMEN'S V-NECK DARK T-SHIRT

★★★★★ (34 reviews) / [Write a review?](#)**\$320.00**

Availability: In stock

Product code: 0405689

Brand: Lee

Product tags: [bags](#) [clothes](#) [shoes](#) [dresses](#)

There are many variations of passages of Lorem Ipsum available, but the majority have suffered alteration in some form, by injected humour, or randomised words which don't look even slightly believable. If you are going to use a passage of Lorem Ipsum, you need to be sure there isn't anything embarrassing.

SELECT SIZE

[x](#) [m](#) [l](#) [xs](#) [xl](#)

Add to cart

Chapter 8

Testing

8.1 Test Cases:

8.1.1 Registration :

No	Data Input	Expected Output	Actual Output	Pass/Fail	Remarks (if any)
1	If all fields are empty	Error message: Please fill out the field	Error message: Enter valid credentials	Fail	-
2	If any one field is empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
3	Password not given as per pass pattern	Error message: Please match the requested format	Error message: Please fill out the field	Fail	Validation was not proper but later on updated
-	Invalid email given	Error Message: Please enter valid email address	Error Message: Please enter valid email address	Pass	-
5	Valid data given	Message: Registered Successfully and redirected to specified links	Message: Registered Successfully and redirected to specified links	Pass	-

8.1.2 Login :

Test Case For Login No	Data Input	Expected Output	Actual Output	Pass/Fail	Remarks (if any)
1	Username & Password are empty	Error message: Please fill out the field	Error message: Enter valid credentials	Pass	-
2	Username given & password is empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
3	Password given & username is empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
4	Invalid username & password given	Message: Login Successful and redirected to specified links	Error message: Invalid credentials	Fail	Login failed because entered details didn't matched
5	Valid username & password given	Message: Login Successful and redirected to specified links	Message: Logged in successfully	Pass	-

8.1.3 Manage Branch:

No	Data Input	Expected Output	Actual Output	Pass/Fail	Remarks (if any)
1	If all fields are empty	Error message: Please fill out the field	Error message: Enter valid credentials	Fail	-
2	If any one field is empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
3	If name is not matched with certain condition	Error message: Please match the requested format	Error message: Please fill out the field	Fail	-
4	If location is invalid	Error Message: Please enter valid location	Error Message: Enter valid address	Pass	-
5	Contact number is not Given in specific format	Error Message: Please enter valid contact	Error Message: Please enter valid contact	Pass	-
6	Valid data given	Message: Branch added successfully	Message: Branch added Successfully and redirected to specified links	Pass	-

8.1.3 Manage Menuitem:**Manage itemcategory:**

No	Data Input	Expected Output	Actual Output		Pass/Fail	Remarks (if any)
1	If all fields are empty	Error message: Please fill out the field	Error message: Enter valid credentials		Fail	-
2	If any one field is empty	Error message: Please fill out the field	Error message: Please fill out the field		Pass	-
3	If name is not matched with certain condition	Error message: Please match the requested format	Error message: Please fill out the field		Pass	-
4	If image path is invalid	Error Message: Location not found	Error Message: Location not found		Pass	-
5	If branch id Is invalid	Error Message: Branch does not exist	Error Message: Branch does not exist		Pass	-
6	Valid data given	Message: category added successfully	Message: category added Successfully and redirected to specified links		Pass	-

Manage item:

No	Data Input	Expected Output	Actual Output	Pass/Fail	Remarks (if any)
1	If all fields are empty	Error message: Please fill out the field	Error message: Enter valid credentials	Fail	-
2	If any one field is empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
3	If item name is not matched with certain condition	Error message: Please match the requested format	Error message: Please fill out the field	Pass	-
4	If image path is invalid	Error Message: Location not found	Error Message: Location not found	Pass	-
5	If description is invalid	Error Message: Enter valid data	Error Message: Enter valid data	Pass	-
6	Valid data given	Message: category added successfully	Message: category added Successfully and redirected to specified links	Pass	-

8.1.4 Manage table:

No	Data Input	Expected Output	Actual Output	Pass/Fail	Remarks (if any)
1	If all fields are empty	Error message: Please fill out the field	Error message: Please fill out field	Pass	-
2	If any one field is empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
3	If table name is not matched with certain condition	Error message: Enter valid data	Error message: Enter valid data	Pass	-
4	Valid data given	Message: table added successfully	Message: table added Successfully and redirected to specified links	Pass	-

8.1.5 Manage cart :

No	Data Input	Expected Output	Actual Output	Pass/Fail	Remarks (if any)
1	If cart is empty	Error message: Add item to order	Error message: Add item to order	Pass	-
2	If any one field is empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
3	Valid data given	Message: You can place order Or add more products	Message: Place order option and redirected to specified links	Pass	-

8.1.6 Manage order :

No	Data Input	Expected Output	Actual Output	Pass/Fail	Remarks (if any)
1	If all fields are empty	Error message: Please fill out fields	Error message: Enter items into cart to order	Failed	-
2	If any one field is empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
3	If invalid Discount	Error Message: Invalid data	Error Message: Invalid data	Pass	-
4	Valid data given	Message: You can place order	Message: Order will Be placed and redirected to specified links	Pass	-

Manage PromoCode :

No	Data Input	Expected Output	Actual Output	Pass/Fail	Remarks (if any)
1	If all fields are empty	Error message: Please fill out fields	Error message: Enter items into cart to order	Failed	-
2	If any one field is empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
3	If invalid Promocode	Error Message: Invalid data	Error Message: Invalid data	Pass	-
4	If invalid Date time Is given	Error Message: Invalid data	Error Message: Invalid data	Pass	-
5	Valid data given	Message: Promocode generated Successfully	Message: Promocode generated Successfully and redirected to specified links	Pass	-

8.1.7 Manage event :

No	Data Input	Expected Output	Actual Output	Pass/Fail	Remarks (if any)
1	If all fields are empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
2	If any one field is empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
3	If Event Title Is invalid	Error message: Please match the requested format	Error message: Please match the requested format	Pass	-
4	If invalid Exp Date time Is given	Error Message: Invalid data	Error Message: Invalid data	Pass	-
5	If contact no is not in specific format	Error Message: Enter valid data	Error Message: Enter valid data	Pass	-
6	If customer name is not valid	Error Message: Enter valid data	Error Message: Enter valid data	Pass	-
7	Valid data given	Message: category added successfully	Message: category added Successfully and redirected to specified links	Pass	-

8.1.8 Manage Gallery :**Manage Gallery Category :**

No	Data Input	Expected Output	Actual Output	Pass/Fail	Remarks (if any)
1	If all fields are empty	Error message: Please fill out fields	Error message: Please fill out fields	Pass	-
2	If any one field is empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
3	If invalid name given	Error Message: Invalid data	Error Message: Invalid data	Pass	-
4	If invalid Img path given	Error Message: Invalid data	Error Message: Invalid data	Pass	-
5	Valid data given	Message: category added Successfully	Message: Image category added Successfully and redirected to specified links	Pass	-

Manage Gallery image :

No	Data Input	Expected Output	Actual Output	Pass/Fail	Remarks (if any)
1	If all fields are empty	Error message: Please fill out fields	Error message: Please fill out fields	Pass	-
2	If any one field is empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
3	If invalid name given	Error Message: Invalid data	Error Message: Invalid data	Pass	-
4	If invalid Img path given	Error Message: Invalid data	Error Message: Invalid data	Pass	-
5	Valid data given	Message: Image added Successfully	Message: Image added Successfully and redirected to specified links	Pass	-

8.1.9 Manage event :

No	Data Input	Expected Output	Actual Output	Pass/Fail	Remarks (if any)
1	If all fields are empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
2	If any one field is empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
3	If Expanse type /detail Is invalid	Error message: Please match the requested format	Error message: Please match the requested format	Pass	-
4	If invalid Expanse value Is given	Error Message: Invalid data	Error Message: Invalid data	Pass	-
5	If date is not in specific format	Error Message: Enter valid data	Error Message: Enter valid data	Pass	-
6	Valid data given	Message: Expanse added successfully	Message: Expanse added Successfully and redirected to specified links	Pass	-

Manage Gallery image :

No	Data Input	Expected Output	Actual Output	Pass/Fail	Remarks (if any)
1	If all fields are empty	Error message: Please fill out fields	Error message: Please fill out fields	Pass	-
2	If any one field is empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
3	If invalid feedback given	Error Message: Invalid data	Error Message: Invalid data	Pass	-
4	If invalid date time given	Error Message: Invalid data	Error Message: Invalid data	Pass	-
5	Valid data given	Message: Feedback sent Successfully	Message: Feedback sent Successfully and redirected to specified links	Pass	-

Contact Us :

No	Data Input	Expected Output	Actual Output	Pass/Fail	Remarks (if any)
1	If all fields are empty	Error message: Please fill out fields	Error message: Please fill out fields	Pass	-
2	If any one field is empty	Error message: Please fill out the field	Error message: Please fill out the field	Pass	-
3	If invalid name given	Error Message: Invalid data	Error Message: Invalid data	Pass	-
4	If invalid contact given	Error Message: Invalid data format	Error Message: Invalid data format	Pass	-
5	If invalid message	Error Message: Invalid data	Error Message: Invalid data	Pass	-
6	Valid data given	Message: Message sent Successfully	Message: Message sent Successfully and redirected to specified links	Pass	-

Chapter 9

Future Enhancement:

Some advantages for future will be such as working speedily, cost-effectively & giving more security to system and we will add integrity for more functionalities such as stock management and much more which will this system for advanced.

Conclusion:

This system will provide much flexibility to a restaurant for managing mostly each and every factor which will make it more smoother. And we can expanse boundaries to a system, this system can also be enhanced to its further potential.

Bibliography:

- Petpooja Restaurant site
- Github
- Draw.io for diagrams
- Stackoverflow
- Geekforgeeks