



**SHAHEED ZULFIKAR ALI BHUTTO
INSTITUTE OF SCIENCE AND TECHNOLOGY**

Final Year Project Report

TOURISTA

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1st August, 2022

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Submitted in the partial fulfillment of the requirements for the degree of

Bachelor of Science in Computer Science
in the

Faculty of Computing and Engineering Sciences

Declaration of Authorship

We Hunzala Ali (1812153) and Abdul Samad (1812141), declare that this report “Tourista” and the work presented is our own. We confirm that: This is solely for the purpose of the completion of our bachelor’s degree at Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology. This report has not been submitted to any university before this and where use of external text exists, that has been clearly stated. The source of references has been given where applicable. With the exception of such quoted texts, this report contains text from our own work. Where the report is based on work done by us jointly with others, we have clearly stated who has contributed to what area of the report.

Signed:

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Date: 1st August, 2021

Project Description

This project, “Tourista”, is to bring multiple tour operators in to one single platform where they can manage their tours and intercommunicate and collaborate with each other. Tour operators can manage tours easily and conveniently. They can also collaborate with other tour operators. In this application Hotel and transport services can also be onboarded. The benefit our project is to solve issues faced by tour operators. If any operator has less number of customers so they can merge their group with other tour operator’s groups.

Acknowledgement

In the name of ALLAH, the most beneficent and merciful, who gave us the knowledge and courage to work on this project.

We are grateful for the outcome and success of this project over the year are gratitude towards the people who have provided us with the guidance and assistance to be able to complete this project in such a difficult time.

We would like to thank our supervisor “Dr. Muhammad Raza” of the Computer Science faculty at Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology. He was integral part in the project as he was always there when we would get stuck at a point in our project. He consistently guided us, motivated us and cooperated with us throughout the duration of this project.

We would like to thank to the teachers at Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology, who guided us and taught us throughout our time in the university. We would also like to express our gratitude to our parents and family members who helped and encouraged us during this time. Furthermore, we would like to thank the staff at SZABIST for allowing us to use their labs and services to be able to complete the project.

Lastly, we would like to extend our gratitude to everyone at Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology for creating and environment for students to thrive in. The quality of education, the cooperative faculty members and the motivation provided by them.

Contents

Declaration of Authorship	2
Project Description.....	3
Acknowledgement.....	4
1. Introduction.....	8
2. Objective	8
3. Problem Description	8
4. Methodology	8
5. Project Scope	8
6. Feasibility Study.....	9
7. Solution Application Areas	9
8. Tools/Technology	9
9. Expertise of the Team Members.....	9
10. Features.....	9
11. Milestones	11
11. Project Schedule.....	12
12. Work Breakdown Structure	12
13. References	14
SZABIST	15
Revision History.....	17
1. Introduction	1
1.1 Purpose.....	1
1.2 Document Conventions	1
1.3 Intended Audience and Reading Suggestions	1
1.4 Product Scope	1
1.5 References	1
2. Overall Description	2
2.1 Product Perspective.....	2
Mobile Application	3
2.3 User Classes and Characteristics.....	4
2.4 Operating Environment.....	4
2.5 Design and Implementation Constraints	4
2.6 User Documentation	4
N/A.....	4
2.7 Assumptions and Dependencies.....	4
3. External Interface Requirements	5
3.1 User Interfaces.....	5
3.2 Hardware Interfaces	5
3.3 Software Interfaces.....	5
3.4 Communications Interfaces.....	5
4. System Features	5
Mobile Application	5
4.1 Login.....	5
4.2 Tour list	6
4.3 Broadcast message:	6
4.4 Food Status	7
4.5 Room Allocation	7
4.6 Customer details page	8

4.7	Payment status.....	8
Web Application	9	
4.8	Login.....	9
4.9	Sign up.....	9
4.10	Create Tour Package.....	10
4.11	Customer status	10
4.12	Book a Room:.....	11
4.13	Book a Transport:	11
4.14	Collaborate Tour	12
4.15	Add a Room	12
4.16	Add a Transport	13
5.	Other Nonfunctional Requirements	13
5.1	Performance Requirements.....	13
5.2	Safety Requirements	13
5.3	Security Requirements.....	14
5.4	Software Quality Attributes	14
5.5	Business Rules.....	14
6.	Other Requirements	14
	App context diagram.....	14
	Web context diagram	15
	Software Design Specification.....	16
7.1	Purpose of this document.....	16
7.2	Scope of the development project.....	16
7.3	Definitions, acronyms, and abbreviations.....	16
7.4	References	16
7.5	Overview of document	16
8.	System architecture description	16
8.1.	Section Overview	16
8.2.	General Constraints	17
8.2.2	Software Interfaces.....	17
8.2.3	Communications Interfaces	17
8.2.4	Performance Requirements.....	17
8.3.	Data Design	17
8.3.1	ERD (Entity-Relationship-Diagram)	17
8.4.	Program Structure	18
8.4.1	Block Diagram (Web)	18
8.4.2	Block Diagram (App)	18
9.	Detailed description of components	19
9.1.	Section Overview	19
9.2.	Component n Detail (include a sub-section for each component)	19
10.	User Interface Design	23
10.1.	Section Overview	23
10.2.	Interface Design Rules.....	24
10.3.	GUI Components.....	24
10.4.	Web UI	24
App UI	29	
11	Reuse and relationships to other products	32
12	Design decisions and tradeoffs.....	32
13	Appendices	32

•	Class Diagram.....	32
•	Object Diagram	32
•	Statechart Diagram (Web)	33
•	State chart Diagram (App)	33
•	Activity Diagram (Web).....	34
•	Activity Diagram (App)	37
•	Sequence Diagram (Web)	40
•	Sequence Diagram (App).....	43
•	Collaboration Diagram (Web).....	45
•	Collaboration Diagram (App).....	49
•	Use-case Diagram (Web).....	51
•	Use-case Diagram (App)	52
•	Component Diagram (Web)	52
•	Component Diagram (App)	53
•	Deployment Diagram (Web).....	53
•	Deployment Diagram (App)	54
14	TEST CASE WEBSITE.....	55
15	TEST CASE MOBILE APP	60
16	Use Cases (Mobile App)	64
17	Use Cases (Web App)	68
18	Iteration Plan	73

Project Proposal

1. Introduction

The Main idea of our project is to bring multiple tour operators in to one single platform where they can manage their tours and intercommunicate and collaborate with each other.

2. Objective

We are developing B2B tour management system where tour operators can manage tours easily and conveniently. They can also collaborate with other tour operators. In this application Hotel and transport service can also be on boarded.

3. Problem Description

The main problem that tour operators are facing currently in Pakistan is that they don't have a single platform where they can manage and keep track of their tours and they cannot collaborate and intercommunicate with other tour operator.

There are many challenges tour operators face when organizing the tour which includes finding suitable hotel rooms and proper transport, keeping the track of customer status.

The benefits of our project is to solve following issues faced by tour operators

- If any operator have less of number of customers so they can merge their group with other tour operators groups
- Each tour operator will have their own single page website so that they can market their packages under their own brand.

4. Methodology

In this project we will be using agile methodology which considers the following workflow.

- Plan requirements
- Develop product
- Test software
- Deliver iteration
- Incorporate feedback

5. Project Scope

The scope proposed in the project includes the design and development of a Web and Mobile app. Moreover, it includes the complete tour management and inter-communication between tour operators. It will also include tour, hotel and transportation booking.

6. Feasibility Study

i. Risks Involved:

- Registration of app on play store might get delay because of current pandemic situation play store can be out of schedule.
- Developments deadline might get delay.

ii. Resource Requirement:

- Website hosting
- Laptops for development
- App deployment

7. Solution Application Areas

We will be targeting the tourism industry. The tour operators in the country can benefit from our solution. They will be able to operate on a single platform from where they can inter-communicate with each and they can also on board hotels and transporters. They will be able to manage their whole tour and they can also engage with the customers.

8. Tools/Technology

- VS code
- Flutter
- React JS
- SQL
- Node JS
- GIT for Version control

9. Expertise of the Team Members

One member of the team has strong skills in web development and the other member is familiar with mobile application development. Both of us will work on the backend together. We have studied all the relevant courses that are needed for this project. Both of the team members are equally interested in this project.

10. Features

Web Application

- Registration

- Tour Operators

Tour Operators can register themselves in our web application. In order to register themselves, they have fill out the registration form which will include the official document attachment option to get them verified and registered onto the system. They have to enable the check of tour operators when they are registering them. Once they are registered, they will have the access to the tour operator portal.

- Hotel Vendors

Similarly, Hotel Vendors can get themselves register to the system by enabling the check of Hotel Vendors when they are registering them. Once registered, they will have access to Hotel Vendor portal.

- Transportation Vendors

Similarly, Transportation Vendors can get themselves register to the system by enabling the check of Transportation Vendors when they are registering them. Once registered, they will have access to Hotel Vendor portal.

- Tour Operators Portal

- Package Creation

All the information like places to be visited, duration of the tour and other information related to the tour will be input.

- Hotel Booking

Tour operators can browse through the hotels and rooms available for the stay. They can select the hotels and rooms according to their needs from the list of hotels.

- Transport Booking

Tour operators can browse through the transports available for the trip. They can select the transport according to their needs from the list of transports.

- Customer Status

Tour operators will be able to keep track of the customer status like the details of the customers signed up for the tour, etc.

- Hotel Vendors Portal

- Input Rooms data

Hotel vendors will have the options to input the data of the rooms that are available to be booked on their portal.

- Transportation Vendors Portal

- Input Transport Data

Transport vendors will have the options to input the data of the vehicle that are available to be booked on their portal.

Mobile Application

- Financial Transactions

Tour operators will have the access on the mobile application to keep the track of the transaction made by the customers, hotel vendors and transport vendors in order to stay updated with the customer, hotel and transport payment status. They will be able to track how many payments have been made and how many payments are in pending status.

- Food Status

They can keep track of to be served and serve the food accordingly to the customers.

- Room Allocation

They can keep track of which room is occupied by which customer and also the status of the rooms.

- Transport Allocation

They can keep track of which transport is occupied by which customer group and also the status of the transport.

- Notification Alert

Tour operators will be able to receive the notification alert on the mobile application like when it is time for the food to be served, etc.

11. Milestones

FYP-1 Milestone

- Preliminary Investigation
- Documentation
- Web Development (Front End) - I
- App Development (Front End) - I
- Testing

FYP-2 Milestone

- Web Development (Front End) - II
- App Development (Front End) - II
- Web Development (Back End)
- App Development (Back End)
- Testing

- Finalize project report

11. Project Schedule

MILESTONES	FYP - I		FYP - II	
	Q1 (Oct'21 Nov'21)	Q2 (Dec'21 Jan'22)	Q3 (Feb'22 Mar'22)	Q4 (Apr'22 May'22)
FYP-1 Milestone				
• Preliminary Research	Blue			
• Documentation		Orange	Orange	
• Web Development (Front End)		Blue	Blue	Blue
• App Development (Front End)		Orange	Orange	Orange
• Testing		White	Blue	White
FYP-2 Milestone				
• Web Development (Back End)			Orange	Orange
• App Development (Back End)			Blue	Blue
• Testing			Orange	Orange
• Finalize project report			White	Blue

12. Work Breakdown Structure

FYP-I:

Week1 – Week4

Milestone 1: Preliminary Research

- Research

Week 5 – Week 16

Milestone 2: Documentation

Week 8 – Week 16

Milestone 3: App development (Front End) - I

- Login authentication frontend
- Tour management frontend
- Transport allocation frontend
- Hotels allocations frontend

Week 8 – Week 16

Milestone 4: Web development (Front End) - I

- Authentication and admin panel frontend
- Customers on boarding frontend
- Transporters and hotels on boarding frontend
- Transporters and hotels advertisement frontend
- Tour packages creation module - promo code frontend
- Booking accept/decline frontend
- Hotel booking frontend

Week 12 – Week 16

Milestone 5: Testing

FYP-II:

Week1 – Week 8

Milestone 6: Web development (Front End) - II

- Tour management cover-up frontend
- Single page website creations
- Package search functionality
- Plan your trip

Web development (Back End)

- Authentication and admin panel backend
- Customers on boarding backend
- Transporters and hotels on boarding backend
- Transporters and hotels advertisement backend
- Tour packages creation module - promo code backend
- Booking accept/decline backend
- Hotel booking backend
- Tour management cover-up backend
- Single page website creations backend
- Plan your trip

Week 1 – Week 8

Milestone 7: App development (Front End) – II

- Customer payment status frontend

- Notification alert frontend
- Food delivery status frontend

App development (Back End)

- Login authentication backend
- Tour management backend
- Transport allocation backend
- Hotels allocations backend
- Customer payment status backend
- Notification alert backend
- Food delivery status backend

Week 4 – Week 12

Milestone 8: Testing

Week 12 – Week 15

Milestone 9: Finalize the report and final testing

- Integration of SQA to the application
- Final testing

13. References

- EaseMyTrip. Why B2B Travel Technology Is Vital To The Industry?
- Anita Smith. (2018). Strategies for E-Commerce Adoption in a Travel Agency.
- Paul Taylor. Top B2B Tourism Industry Trends.
- Angel L. Vidal. B2B and the tourism industry: A strong digital strategy can make the difference.
- Balakrishnan R. Prabu B. Christopher (2019) Exploring the Business Model with Special Reference to B2B in the Tourism Sector.

Software Requirements Specification for Tourista (B2B Tourmanagement and Inter-Communication)

Version 3.0 approved

Prepared by: Abdul Samad, Hunzala Ali

SZABIST

10-06-2022

Revision History

Name	Date	Reason For Changes	Version
Tourista SRS Doc	29-1-2022	Some formatting changes and improvements	2.0
Tourista complete documents	10-6-2022	Finalizing complete documentation	3.0

1. Introduction

1.1 Purpose

This document is to provide detailed information on the B2B tour operators' management and inter-communication we are making the website and mobile app based project. Moreover, it includes the complete tour management and inter-communication between tour operators. It will also include tour, hotel and transportation booking.

1.2 Document Conventions

This document is written using different fonts with different sizes paragraph are written in Arial font with a font size of 11. Main headings are written in Times font with font size of 18 and sub headings are also written in Times font with font size of 14

1.3 Intended Audience and Reading Suggestions

This SRS document would be read by marketing personnel, users, and the project manager and anyone else that is concerned with the development phase of the project. The purpose of the introduction and overall description is for the audience to understand how the project works and in what setting it will operate for each user. The reader should next proceed to the interface part to see how well the user interface is user friendly and what Human Computer Interaction guidelines are being followed. The user should then read about the features in depth, followed by security and performance information.

1.4 Product Scope

The scope proposed in the project includes the design and development of a Web and Mobile app. which will be used to bring multiple tour operators in to one single platform where they can manage their tours and intercommunicate and collaborate with each other. Hotel and transport vendors can also be on boarded so tour operators can book their hotel rooms and transport from a single platform. Customers can also book tour of their own choice.

1.5 References

- EaseMyTrip. Why B2B Travel Technology Is Vital To The Industry?
- Anita Smith. (2018). Strategies for E-Commerce Adoption in a Travel Agency.
- Paul Taylor. Top B2B Tourism Industry Trends.
- Angel L. Vidal. B2B and the tourism industry: A strong digital strategy can make the difference.
- Balakrishnan R. Prabu B. Christopher (2019) Exploring the Business Model with Special Reference to B2B in the Tourism Sector.

2. Overall Description

2.1 Product Perspective

This is a B2B (Business to Business) product which involves the exchange of services between the businesses.

This product is built to target Tour operators in general and to bring them under a platform where they can easily have access to all the tools required to manage a successful tour and can collaborate and interact with each other and with the Hotel and Transportation Vendors.

The idea for this product is inspired from modern world technologies in Tourism industry. Several well-known online firms have already established successful Tour Management Application but they lack the concept of giving the Tour Operators upper hand in marketing their service with their name instead of the platform in which they are registered.

2.2 Product Functions

Web Application

- Registration

- Tour Operators

Tour Operators can register themselves in our web application. In order to register themselves, they have fill out the registration form which will include the official document attachment option to get them verified and registered onto the system. They have to enable the check of tour operators when they are registering them. Once they are registered, they will have the access to the tour operator portal.

- Hotel Vendors

Similarly, Hotel Vendors can get themselves register to the system by enabling the check of Hotel Vendors when they are registering them. Once registered, they will have access to Hotel Vendor portal.

- Transportation Vendors

Similarly, Transportation Vendors can get themselves register to the system by enabling the check of Transportation Vendors when they are registering them. Once registered, they will have access to Hotel Vendor portal.

- Tour Operators Portal

- Package Creation

All the information like places to be visited, duration of the tour and other information related to the tour will be input.

- Hotel Booking

Tour operators can browse through the hotels and rooms available for the stay. They can select the hotels and rooms according to their needs from the list of hotels.

- Transport Booking

Tour operators can browse through the transports available for the trip. They can select the transport according to their needs from the list of transports.

- Customer Status

Tour operators will be able to keep track of the customer status like the details of the customers signed up for the tour, etc.

- Collaboration

Tour Operator will be able to view other tour packages and will be able to send request and merge their tour with others.

- Hotel Vendors Portal

- Input Rooms data

Hotel vendors will have the options to input the data of the rooms that are available to be booked on their portal.

- Transportation Vendors Portal

- Input Transport Data

Transport vendors will have the options to input the data of the vehicle that are available to be booked on their portal.

Mobile Application

- Financial Transactions

Tour operators will have the access on the mobile application to keep the track of the transaction made by the customers, hotel vendors and transport vendors in order to stay updated with the customer, hotel and transport payment status. They will be able to track how many payments have been made and how many payments are in pending status.

- Food Status

They can keep track of to be served and serve the food accordingly to the customers.

- Room Allocation

They can keep track of which room is occupied by which customer and also the status of the rooms.

- Transport Allocation

They can keep track of which transport is occupied by which customer group and also the status of the transport.

- Notification Alert/broadcast message

Tour operators will be able to receive the notification alert on the mobile application like when it is time for the food to be served, etc.

2.3 User Classes and Characteristics

The most important and major customer of this product would be the Tour Operators, Hotel Vendors and Transportation Vendors. They would use the Web Application and Tour Operators will be able to manage their tours through Android application. Most of the functions of this product are designed with keeping in mind the view of the Tour Operators.

2.4 Operating Environment

Tourista consists of two platforms that are an Android application and a Web application. The android application requires an Android phone and an OS version of Android 4.4 Kit Kat or greater. The web application will be accessible through computer and mobile. The application will require active internet connection.

2.5 Design and Implementation Constraints

The product has not many constraints in term of design and implementation. There are constraints such as the time limit as this project is to be completed within a time span of 9 months with a development team of just two developers. Although the developers are free to use whatever technology they want to use for their product, they must implement or use technology that could be implemented easily due to shortage of time.

The decision on which database to use should be made taking into account that the data to be exchanged or stored is large and that the appropriate data management system will provide efficient performance.

2.6 User Documentation

N/A

2.7 Assumptions and Dependencies

Assumption and dependencies of using Tourista is one must have a an android mobile phone with a good internet and must know how to use any app on mobile phone, and if one is using on computer/laptop than he must have a windows/ mac OS or Linux (GUI) operating system and a good internet connection and know how to operate a laptop and computer.

3. External Interface Requirements

3.1 User Interfaces

Tour operator will only use the mobile application interface. It will have a login page for operators to login with their account which they will create on website. After logging in to app they will be able to select their type of tour of which they want details about after that they will be able to check the payment status of hotel customers and transport they can also check food status and allocate rooms to customers. They can also send broadcast message as announcement.

Tour operators, hotel vendors and transportation vendor will be able to use web application. It will have a sign up page so they can sign up themselves. Once their account is created, they can enter credentials on login page and access their respective portal. On their respective portal page they will be interact with the features available for them,

3.2 Hardware Interfaces

Keyboard, mouse and Devices such as android mobiles and laptop or pc will be required.

3.3 Software Interfaces

To run the web application of this project, web browser will be required to access the web pages on any OS. As the project is also mobile app based android operating system is needed and google play services are also needed to publish the app.

3.4 Communications Interfaces

Apis will be to interact with the database, the app will simply utilize an active Wi-Fi connection or mobile data, the Web app will use HTTP protocol

4. System Features

Mobile Application

4.1 Login

Description and Priority:

Tour operator must have to login by entering their login credentials. This feature is of high priority without login user will not be able to move to next page

Stimulus/Response Sequences:

Action	Response
Enter username and password	

Press login button	Check for valid information
--------------------	-----------------------------

Functional Requirements:

- REQ-1: All fields should be fill
- REQ-2: Must enter correct information
- REQ-3: must connect to the internet

4.2 Tour list

Description and Priority:

Tour operator must have to select the tour of which they want to see details about This feature is of high priority without tour selection user will not be able to move to next page

Stimulus/Response Sequences:

Action	Response
Select tour from list	
Press submit button	Move to next page

Functional Requirements:

- REQ-1: must select tour from list
- REQ-2: must connect to the internet

4.3 Broadcast message:

Description and Priority:

Tour operator can send broadcast message as announcements this feature is not high priority it's up to user if they want to send any message

Stimulus/Response Sequences:

Action	Response
Type message	
Send	Message will be sent to others

Functional Requirements:

- REQ-1: must connect to the internet

4.4 Food Status

Description and Priority:

Tour operator can check and update the food status of customers. This feature is of medium priority from this tour operator will make sure every customer is provided with food

Stimulus/Response Sequences:

Action	Response
Open food page	
Check or update food status	Will update status

Functional Requirements:

REQ-1: must connect to the internet

4.5 Room Allocation

Description and Priority:

Tour operator can check the rooms details and also they check and allot rooms to customers. This feature is of medium priority from this tour operator will make sure every customer is provided with room

Stimulus/Response Sequences:

Action	Response
Open hotel page	
Check rooms details	
Check and allot rooms to customers	Will update status

Functional Requirements:

REQ-1: must connect to the internet

4.6 Customer details page

Description and Priority:

Tour operator can check the customer's details. This feature is of high priority because if any mishap happens tour operator should have all details of their customers

Stimulus/Response Sequences:

Action	Response
Open customer details page	Show customers details
Check customers details	

Functional Requirements:

REQ-1: must connect to the internet

4.7 Payment status

Description and Priority:

Tour operator can check and update payment statuses of hotel vendor, transporters and customers this is high priority feature because it will be a kind of proof or kind of surety that the payment of particular person is done or not

Stimulus/Response Sequences:

Action	Response
Open payment page	Give payment details
Check status if payment done check the box	Update payment status

Functional Requirements:

REQ-1: must connect to the internet

Web Application

4.8 Login

Description and Priority:

Tour operator, Hotel Vendor and Transportation Vendor must have to login by entering their login credentials. This feature is of high priority without login user will not be able to access their respective portal

Stimulus/Response Sequences:

Action	Response
Enter username and password	Check for valid information
Press login button	Display their respective portal

Functional Requirements:

REQ-1: All fields should be fill

REQ-2: Must enter correct information

REQ-3: must connect to the internet

4.9 Sign up

Description and Priority:

Tour operator, Hotel Vendor and Transportation Vendor must have to Sign up by entering their relevant and correct details in order to access their portal. This feature is of high priority without login user will not be able to have their portal page

Stimulus/Response Sequences:

Action	Response
Enter user details	
Press sign up button	Deny the request if the user already exists

Functional Requirements:

REQ-1: All fields should be fill

REQ-2: Must enter correct information

REQ-3: must connect to the internet

4.10 Create Tour Package

Description and Priority:

Tour operator will have an option to create the package. They can enter the details of the package. This feature is not high priority it's up to tour operator if they want to create any package

Stimulus/Response Sequences:

Action	Response
Enter tour details	
Press submit button	Tour package will be created

Functional Requirements:

REQ-1: must enter tour details

REQ-2: must connect to the internet

4.11 Customer status

Description and Priority:

Tour operator must have to select the customer from list of customer to see their details. This feature is not high priority it is up to tour operator if they want to create any package.

Stimulus/Response Sequences:

Action	Response
Select customer list	
Press view detail button	Customer details should be display

Functional Requirements:

REQ-1: must select customer from list

REQ-2: must connect to the internet

4.12 Book a Room:

Description and Priority:

Tour operator will be able to select and book a room of their choice from the list of hotel rooms on their portal. This feature is of medium priority from this tour operator will make sure they have enough rooms booked for their tour.

Stimulus/Response Sequences:

Action	Response
Select hotel room	Display Hotel room details
Book room	Send confirmation request

Functional Requirements:

REQ-1: must select available room

REQ-2: must connect to the internet

4.13 Book a Transport:

Description and Priority:

Tour operator will be able to select and book a transport of their choice from the list of transports available on their portal. This feature is of medium priority from this tour operator will make sure they have enough transport booked for their tour.

Stimulus/Response Sequences:

Action	Response
Select Transport	Display transport details
Book Transport	Send confirmation request

Functional Requirements:

REQ-1: must select available transport

REQ-2: must connect to the internet

4.14 Collaborate Tour

Description and Priority:

Tour Operator will have an option on their portal to send a request to other tour operator if they want to merge their tour with any other tour operator. This feature is not high priority it is up to tour operator if they want to merge their tour with any other tour.

Stimulus/Response Sequences:

Action	Response
Select Tour to merge	
Click on send request	Send confirmation request to the other tour operator

Functional Requirements:

REQ-1: must choose tour operator

REQ-2: must connect to the internet

4.15 Add a Room

Description and Priority:

Hotel vendor will have an option to add a room on their portal which will be displayed on the Tour operator portal. This feature is of medium priority from this Hotel vendor will be able to get their rooms booked.

Stimulus/Response Sequences:

Action	Response
Select Add room	Room detail form page will display
Enter room details	
Click submit	Room will be submitted to the list of rooms

Functional Requirements:

REQ-1: must connect to the internet

4.16 Add a Transport

Description and Priority:

Transportation vendor will have an option to add a transport on their portal which will be displayed on the Tour operator portal. This feature is of medium priority from this Transportation vendor will be able to get their rooms booked.

Stimulus/Response Sequences:

Action	Response
Select Add Transport	Transport detail form page will display
Enter transport details	
Click submit	Transport will be submitted to the list of Transport

Functional Requirements:

REQ-1: must connect to the internet

5. Other Nonfunctional Requirements

5.1 Performance Requirements

If computers meet all of the hardware criteria, there will be no problems with software performance, response time, or storage.

The website and application would respond to the needs of the user without stalling. It will operate any time with no system failure.

5.2 Safety Requirements

For safety purposes, all of the user's data can only be seen by those who are logged in and registered to the database; no one else can see the user's data unless it is specified in his roles.

For safety reasons, each user is assigned a unique id and password that will be stored in the database.

5.3 Security Requirements

There is no risk of a virus or software hacking. The main security concern is for users' accounts, thus a good login method should be used to avoid hacking. Each user has a unique login and password, and the authorization procedure and session handling process give maximum protection against hackers and fake persons.

5.4 Software Quality Attributes

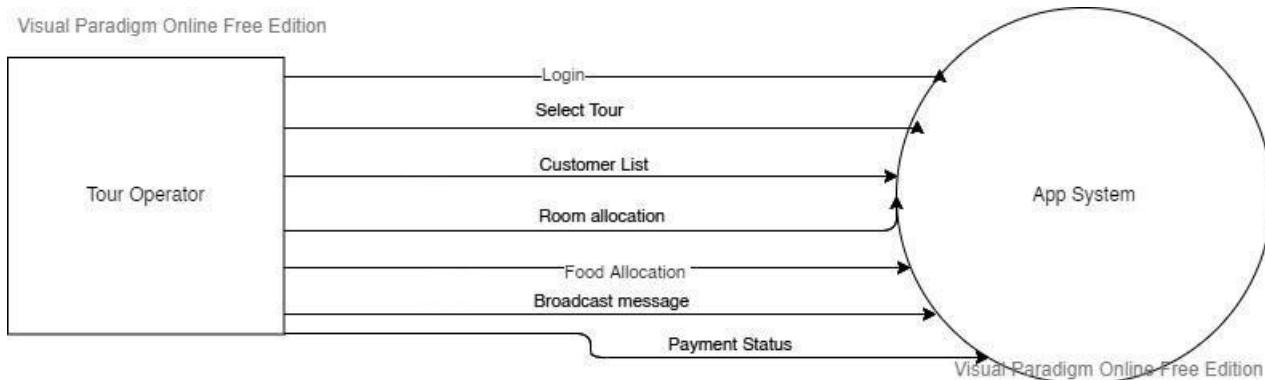
Website and application both will be user friendly any person can easily use and operate it. The website and application would respond to the needs of the user without stalling. It will operate any time with no system failure.

5.5 Business Rules

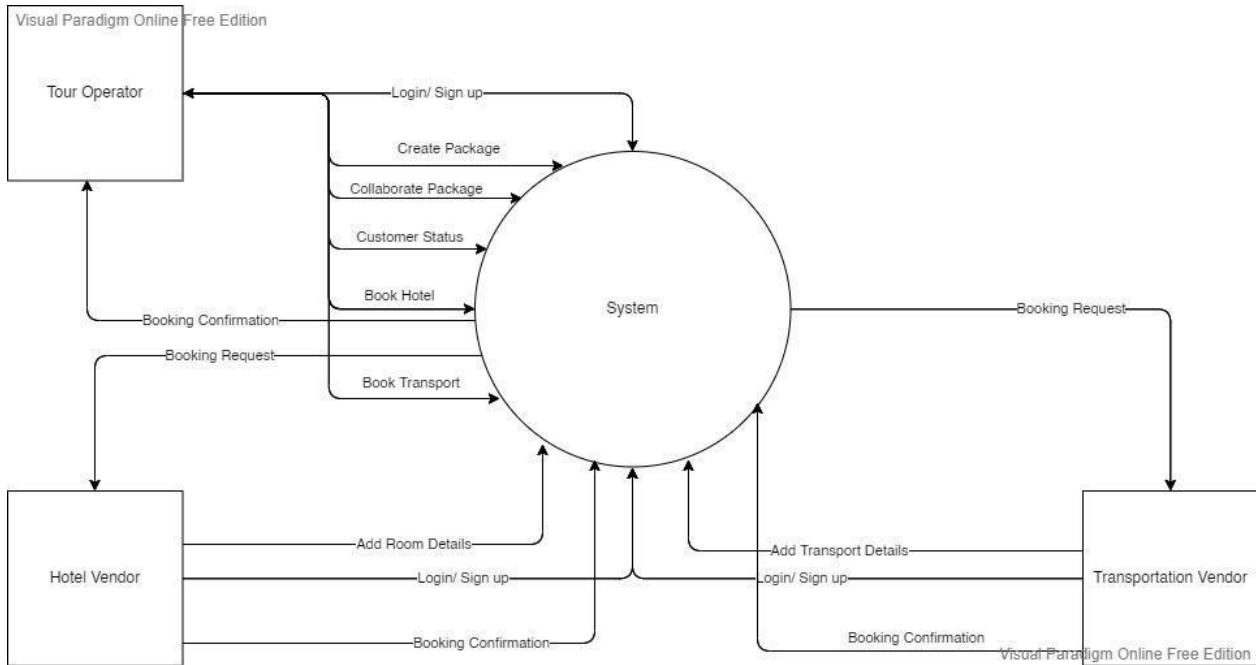
- **Tour Operator:** Tour Operator can login on the mobile app to view tour, check customer details and payment status, allocate rooms, update food status and broadcast a message. On web app, Tour operator can create tour package, collaborate with other tour, view customer status, book rooms and transports.
- **Hotel Vendor:** Hotel vendor can login to the web app to add hotel rooms.
- **Transportation Vendor:** Transportation vendor can login to the web app to add transports.

6. Other Requirements

App context diagram



Web context diagram



Software Design Specification

7. Introduction

7.1 Purpose of this document

This document's purpose is to provide a high-level design framework around which to build our project. It also provides a list of requirements against which to test the final project and determine whether we were able to successfully implement the system according to design.

7.2 Scope of the development project

The scope proposed in the project includes the design and development of a Web and Mobile app, which will be used to bring multiple tour operators in to one single platform where they can manage their tours and intercommunicate and collaborate with each other. Hotel and transport vendors can also be onboarded so tour operators can book their hotel rooms and transport from a single platform. Customers can also book tour of their own choice.

7.3 Definitions, acronyms, and abbreviations

B2B- Business to Business

ERD- Entity Relationship

Diagram GUI- Graphical User Interface

7.4 References

- EaseMyTrip. Why B2B Travel Technology Is Vital To The Industry?
- Anita Smith. (2018). Strategies for E-Commerce Adoption in a Travel Agency.
- Paul Taylor. Top B2B Tourism Industry Trends.
- Angel L. Vidal. B2B and the tourism industry: A strong digital strategy can make the difference.
- Balakrishnan R. Prabu B. Christopher (2019) Exploring the Business Model with Special Reference to B2B in the Tourism Sector.

7.5 Overview of document

This document starts with system architecture description. Then we move on to general constraints, data design, structure and components. We thoroughly discuss all the components and their component's identification, type, purpose, function subordinates, Dependencies, interfaces, resources, processing and data. We have also discussed User interface in this document, the GUI components, the APIs, reuse and relationship with other components, design tradeoffs.

In the end, there are some important UML diagrams that thoroughly describe the design specifications of our project.

8. System architecture description

8.1. Section Overview

This section of the document provides overview and rationale of the program's data and architectural design of the product. General constraints

that are applicable to the system and have impact on the system are discussed in the section here. The data design and structure design of the system are also part of this section of the document.

8.2. General Constraints

8.2.1 Hardware Interfaces

Keyboard, mouse and Devices such as android mobiles and laptop or pc will be required.

8.2.2 Software Interfaces

To run the web application of this project, web browser will be required to access the web pages on any OS. As the project is also mobile app based android operating system is needed and google play services are also needed to publish the app.

8.2.3 Communications Interfaces

APIs will be to interact with the database, the app will simply utilize an active Wi-Fi connection or mobile data, the Web app will use HTTP protocol.

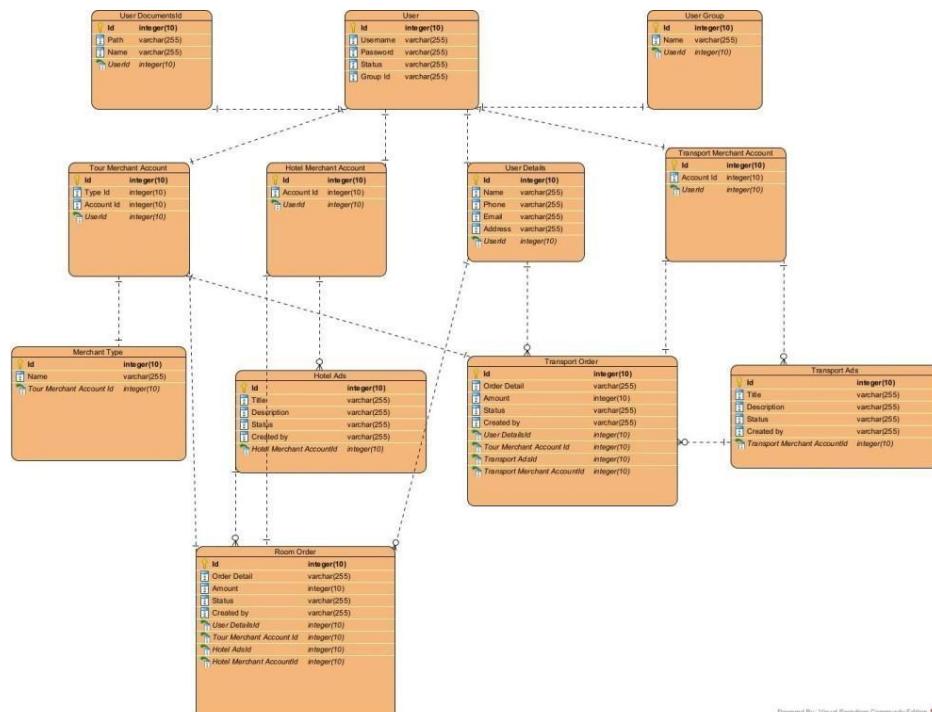
8.2.4 Performance Requirements

If computers meet all of the hardware criteria, there will be no problems with software performance, response time, or storage.

The website and application would respond to the needs of the user without stalling. It will operate any time with no system failure.

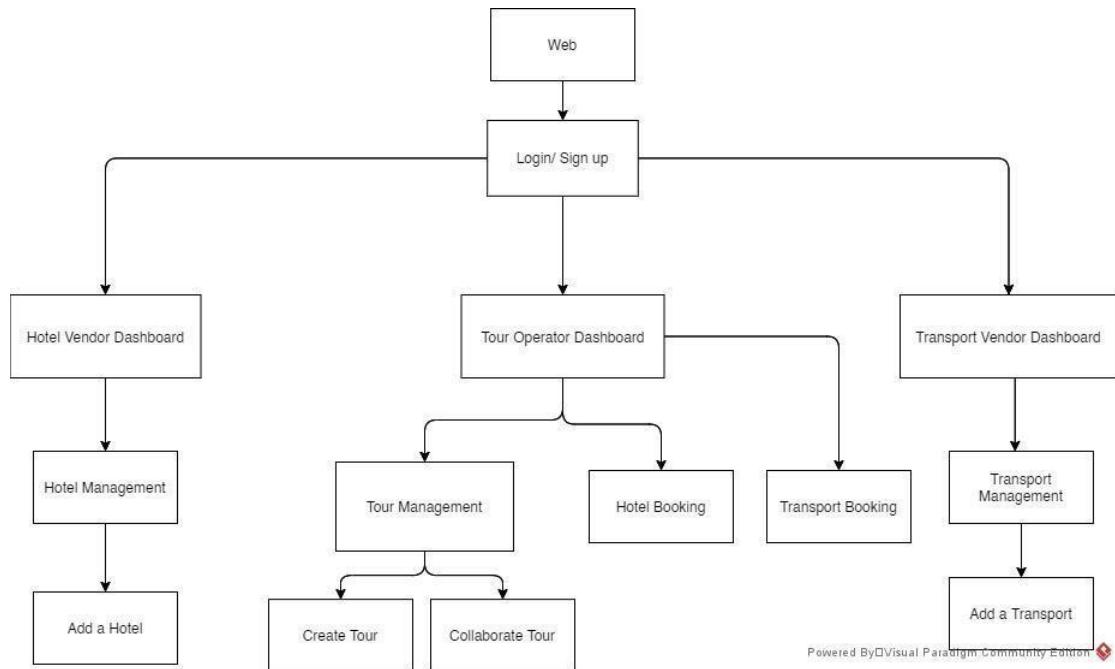
8.3. Data Design

8.3.1 ERD (Entity-Relationship-Diagram)



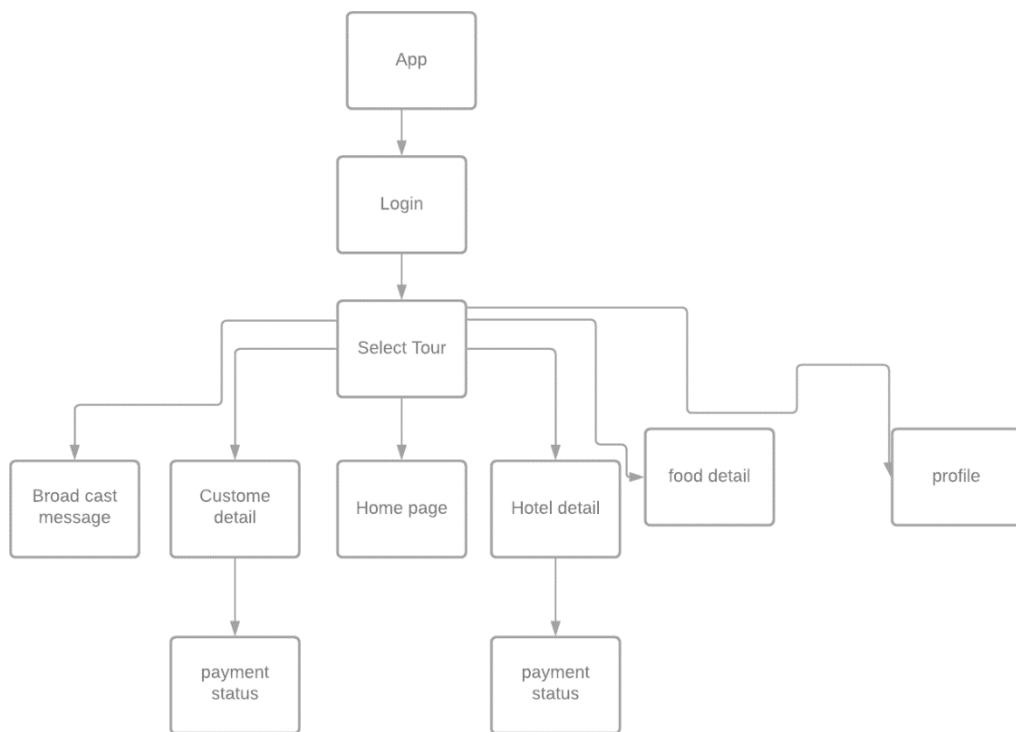
8.4. Program Structure

8.4.1 Block Diagram (Web)



Powered By Visual Paradigm Community Edition

8.4.2 Block Diagram (App)



8.5. Alternatives Considered

N/A

9. Detailed description of components

9.1. Section Overview

In this section we describe the details of components in the system, it will give also give the overall view of all the functional components. It will describe each component's identification, type, purpose, function subordinates, Dependencies, interfaces, resources, processing and data.

9.2. Component n Detail (include a sub-section for each component)

Mobile Application:

Identification	Login
Type	Component/Form
Purpose	Tour operator will enter login details in order to enter in app.
Function	User gets logged in get access to further functionalities of APP
Dependencies	Account should be already created .
Interfaces	It has two text boxes and a login button and error message card if login credentials are incorrect
Resources	Android phone and internet connection is required
Processing	User enters correct login credentials in order to proceed and use further functionalities of app and if credentials are wrong error message will be generated
Data	Data will be fetch from data base for authentication

Identification	Select Tour
Type	Component
Purpose	Tour operator will select the tour of which he wants detail about
Function	select a tour from list of tours
Dependencies	Must logged in .
Interfaces	Scollable list
Resources	Android phone and internet connection is required
Processing	Tour operator will select a tour from list of tours to check and update something in that specific tour
Data	Data is fetch from data base

Identification	Broad cast message
Type	Component
Purpose	Tour operator can send message
Function	Send message to others
Dependencies	Must select the tour .
Interfaces	Text field to type message and a submit button to send it
Resources	Android phone and internet connection is required
Processing	User types a message and send to others as an announcement
Data	Message store in database

Identification	Customer details
Type	Component
Purpose	To check guest details
Function	Check details of guests from list
Dependencies	Tour should be selected
Interfaces	Scollable list
Resources	Android phone and internet connection is required
Processing	User enters guest page and can check the details of guests from the list
Data	Details of guests is fetch from data base

Identification	Food Allocation
Type	Component
Purpose	Allot food to guests
Function	Allot food to guests by updating their food status
Dependencies	tour should be selected
Interfaces	PASS
Resources	Android phone and internet connection is required
Processing	Open food page and check and update guest food status
Data	Update data in data base

Identification	Room Allocation
Type	Component
Purpose	Allot Room to guests
Function	Allot Room to guests by updating their Room status
Dependencies	tour should be selected
Interfaces	PASS
Resources	Android phone and internet connection is required
Processing	Open hotel page and check room details and update guest room status
Data	Update data in data base

Identification	Payment Status
Type	Component
Purpose	Check and update payment status
Function	Check and update payment status of hotel transport and customer
Dependencies	tour should be selected
Interfaces	PASS
Resources	Android phone and internet connection is required
Processing	Open payment page and check and update payment statuses
Data	Update data in data base

Web Application:

Identification	Login
Type	Component/Form
Purpose	Tour operator, Hotel Vendor, Transport Vendor will enter login details in order to enter in Web
Function	User gets logged in get access to further functionalities of Web
Dependencies	Account should be already created .
Interfaces	It has two text boxes and a login button and error message card if login credentials are incorrect
Resources	Browser and internet connection is required
Processing	User enters correct login credentials in order to proceed and use further functionalities of web and if credentials are wrong error message will be generated
Data	Data will be fetch from data base for authentication

Identification	Signup
Type	Component/Form
Purpose	Tour operator, Hotel Vendor, Transport Vendor will enter signup details in order to enter in Web
Function	User gets signed up to get access to further functionalities of Web
Dependencies	User should not be already exists .
Interfaces	It has a form and a sign up button and error message card if signup details are incorrect
Resources	Browser and internet connection is required
Processing	User enters valid sign up details in order to proceed and use further functionalities of web and if user already exists error message will be generated
Data	Data is saved in database

Identification	Create Tour
Type	Component/Form
Purpose	Tour operator will create a new tour package
Function	Create a new Tour
Dependencies	Must logged in as Tour Operator .
Interfaces	It has a form and a create button and error message card if tour details are incomplete
Resources	Browser and internet connection is required
Processing	Tour operator will select create tour option in tour management
Data	Data is saved in database

Identification	Customer Status
Type	Component
Purpose	To check customer details
Function	Check details of customer from list
Dependencies	Tour should be selected
Interfaces	Scrollable list
Resources	Browser and internet connection is required
Processing	User select customer page and can check the details of customers from the list
Data	Details of customer is fetch from database

Identification	Tour Collaboration
Type	Component
Purpose	To collaborate a tour with other tour operator
Function	Select tour to collaborate and send a request
Dependencies	Tour should be selected
Interfaces	Scrollable list
Resources	Browser and internet connection is required
Processing	User enters the collaboration page and select available tour from the list and send the request to collaborate
Data	Data is saved in database

Identification	Hotel Booking
Type	Component
Purpose	To book a hotel room
Function	Send book a hotel room from the list of available hotel rooms
Dependencies	Room should be selected
Interfaces	Scrollable list
Resources	Browser and internet connection is required
Processing	Tour operator selects hotel booking page and can check the available hotel rooms from the list and send a booking request
Data	Available hotel room list is fetch from database

Identification	Transport Booking
Type	Component
Purpose	To book a transport room
Function	Send book a transport from the list of available transports
Dependencies	Transport should be selected
Interfaces	Scrollable list
Resources	Browser and internet connection is required
Processing	Tour operator selects transport booking page and can check the available transport from the list and send a booking request
Data	Available transport list is fetch from database

Identification	Add a Hotel Room
Type	Component/Form
Purpose	Hotel vendor will add a new Hotel Room
Function	Add a new hotel room to be booked
Dependencies	Must logged in as Hotel Vendor .
Interfaces	It has a form and a add button and error message card if hotel room details are incomplete
Resources	Browser and internet connection is required
Processing	Hotel Vendor will select add a new room option in Hotel management and enter its details
Data	Data is saved in database

Identification	Add a Transport
Type	Component/Form
Purpose	Transport vendor will add a new Transport
Function	Add a new Transport to be booked
Dependencies	Must logged in as Transport Vendor .
Interfaces	It has a form and a add button and error message card if transport details are incomplete
Resources	Browser and internet connection is required
Processing	Transport Vendor will select add a new transport option in Transport management and enter its details
Data	Data is saved in database

10. User Interface Design

10.1. Section Overview

This section provides the insight to the user interface of the Tourista APP and WEB. The detailed description to the user interface components and why they were chosen for this product. The idea behind this user interface and its components is briefly discussed in this section.

10.2. Interface Design Rules

The design rules used in our interface are as follows:

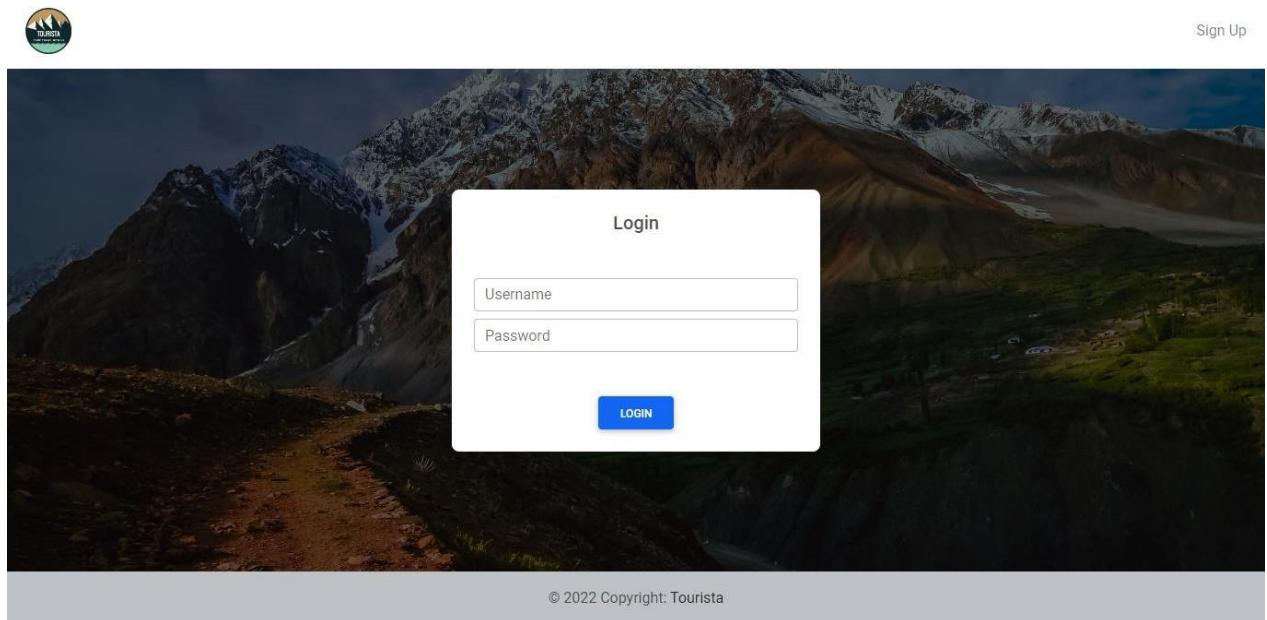
- Interface is flexible i.e. it allows the user to easily use on pc or mobile
- The mobile app and web app is really basic and straight forward to use for any user.
- Contain basic features that are easy to use.

10.3. GUI Components

We are using different libraries from react JS like MDB React to design our WEB APP and we are using material design library in flutter to design mobile APP.

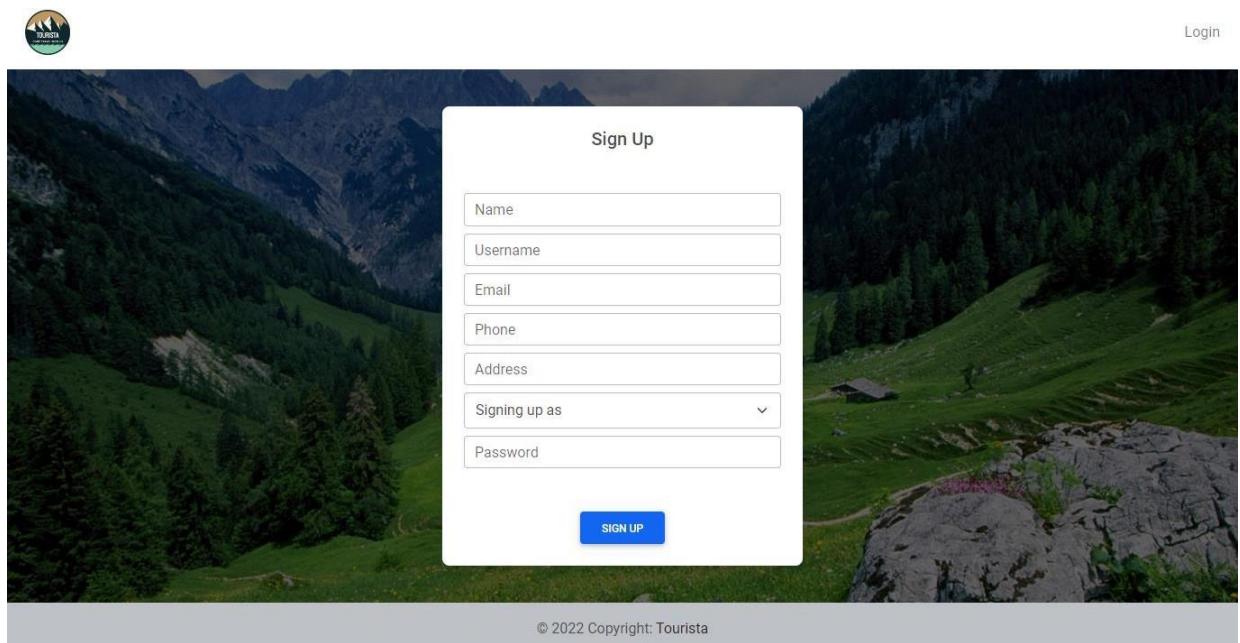
10.4. Web UI

Login



The login page features a large, scenic background image of a snow-capped mountain range at dusk. In the foreground, there's a white rectangular login form. At the top of the form is the word "Login". Below it are two input fields: one for "Username" and one for "Password", both with placeholder text. At the bottom of the form is a blue "LOGIN" button. In the top right corner of the main image, there's a small "Sign Up" link. The bottom right corner of the image contains the copyright notice "© 2022 Copyright: Tourista".

Sign Up



The sign up page has a similar layout to the login page, set against a background of a lush green mountain valley. It features a white rectangular form with "Sign Up" at the top. Below it are several input fields: "Name", "Username", "Email", "Phone", "Address", and a dropdown menu for "Signing up as". There's also a "Password" field. At the bottom of the form is a blue "SIGN UP" button. In the top right corner of the main image, there's a small "Login" link. The bottom right corner of the image contains the copyright notice "© 2022 Copyright: Tourista".

Tour Management



Tour Management

CREATE NEW

Tour	Days	Departure from	Destination	Price	Status	Detail	Action
Tour to Naran, ...	3	Islamabad	Naran	18000	Active	DETAIL	DELETE

Rows per page: 10 ▾ 1-1 of 1 | < < > >|

LOG OUT

Create Tour



Create a Tour

Tour Information

Name	Days	Destination
Departure	Price	Status

Overview

Description

Quantity

Event Names

Image

CLOSE **ADD**

Hotel Management



Hotel Management

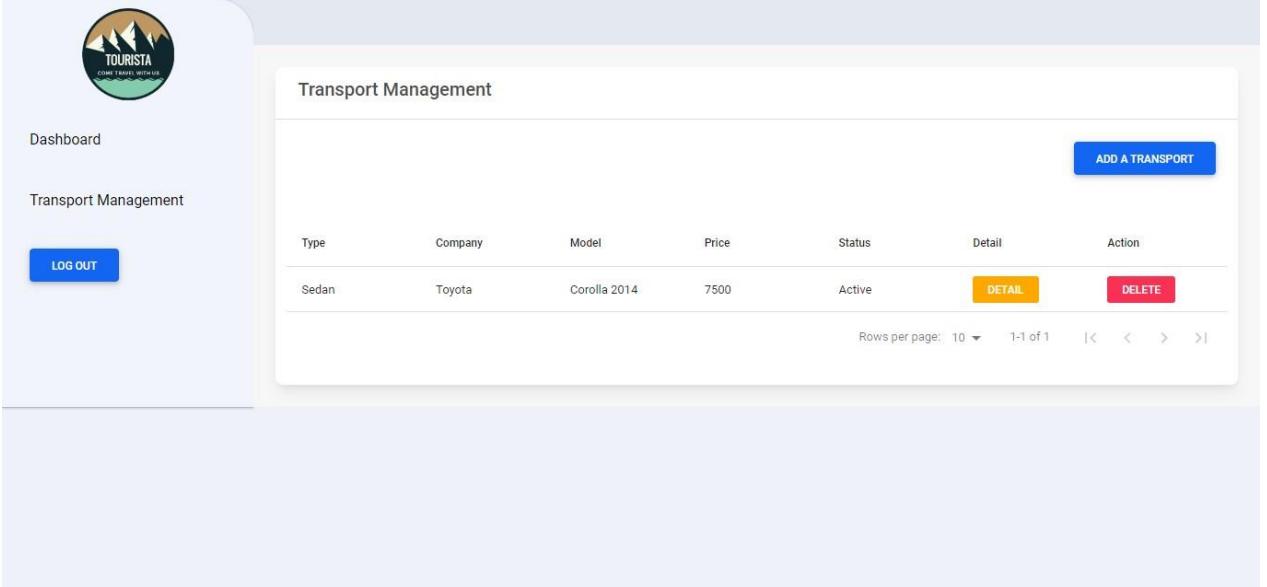
ADD A HOTEL

Name	Location	Room Price	Description	Facilities	Status	Detail	Action
Paradise Beach Htl	Karachi	5000	Test	Food & Drink	Active	DETAIL	DELETE
Hotel Seaview	Karachi	4500	This property is a 12-minute walk f...	Food & Drink	Active	DETAIL	DELETE

Rows per page: 10 ▾ 1-2 of 2 | < < > >|

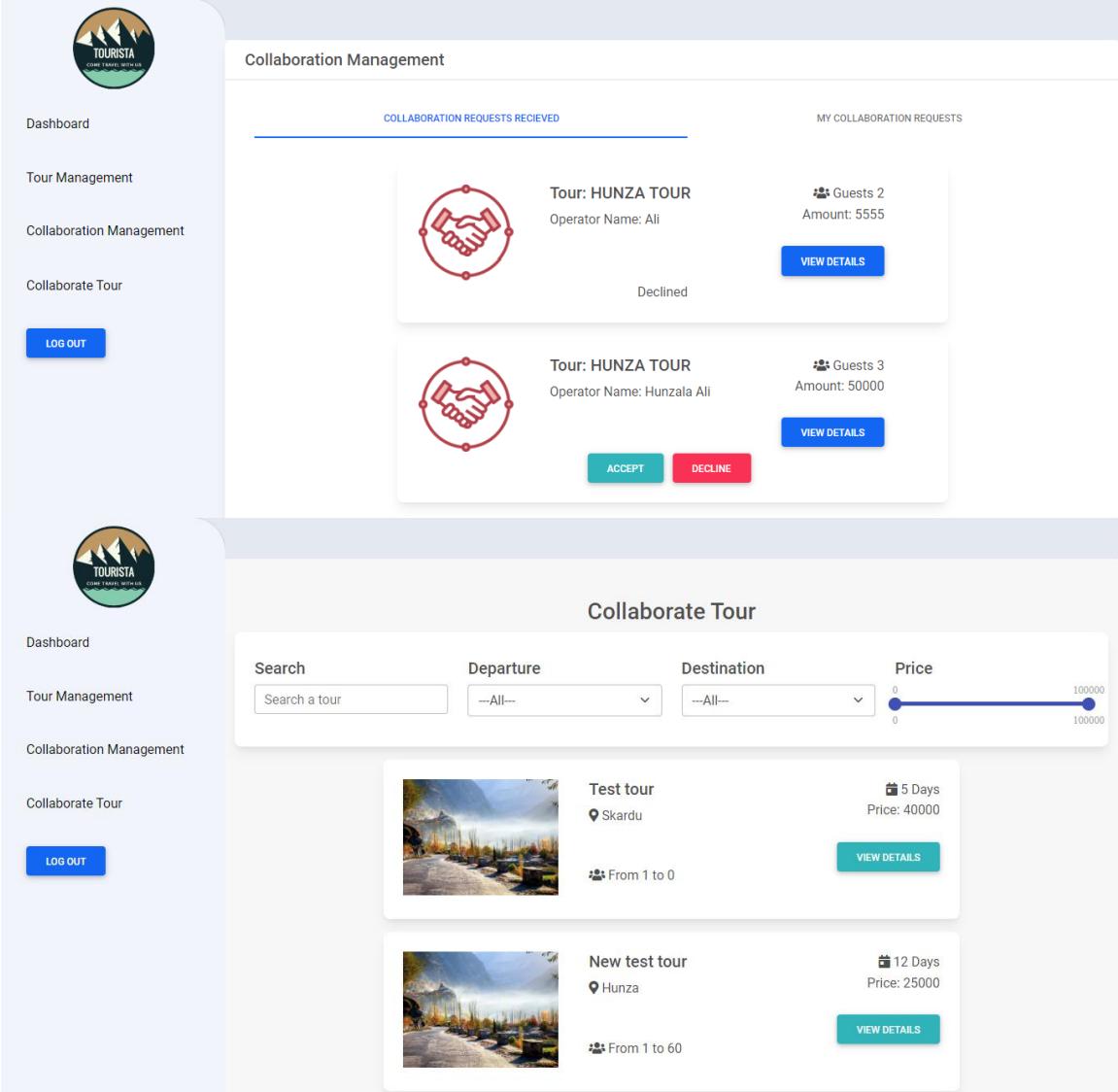
LOG OUT

Transport Management



The screenshot shows the 'Transport Management' section of the application. On the left sidebar, there are links for 'Dashboard', 'Transport Management', and a 'LOG OUT' button. The main area has a title 'Transport Management' and a table with one row of data. The table columns are 'Type', 'Company', 'Model', 'Price', 'Status', 'Detail', and 'Action'. The data row shows: Type 'Sedan', Company 'Toyota', Model 'Corolla 2014', Price '7500', Status 'Active', Detail button, and Delete button. Below the table are pagination controls: 'Rows per page: 10', '1-1 of 1', and navigation arrows.

Tour Collaboration



The screenshot shows the 'Collaboration Management' and 'Collaborate Tour' sections. The left sidebar includes 'Dashboard', 'Tour Management', 'Collaboration Management', 'Collaborate Tour', and a 'LOG OUT' button. In the 'Collaboration Management' section, under 'COLLABORATION REQUESTS RECEIVED', there are two items: 'Tour: HUNZA TOUR' (operator Ali) with 2 guests and amount 5555, and another 'Tour: HUNZA TOUR' (operator Hunzala Ali) with 3 guests and amount 50000. Each item has a 'VIEW DETAILS' button. In the 'Collaborate Tour' section, there is a search form with fields for 'Search', 'Departure' (dropdown), 'Destination' (dropdown), and 'Price' (range slider from 0 to 100000). Below the search form are two tour listings: 'Test tour' (Skardu, 5 days, 40000, From 1 to 0) and 'New test tour' (Hunza, 12 days, 25000, From 1 to 60), each with a 'VIEW DETAILS' button.

Popular Destinations

Hunza

Gilgit

Skardu

Simple process

Sign Up
Are you a Tour, Hotel, Transport vendor?

Book
Browse Tours, Hotels, Transports. Send a booking request when you find a match!

Collaborate
Collaborate Tours with other Tour vendors!

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Tour Booking

Search a tour

Departure: Gilgit

Destination: Hunza

Price: PKR 0 - 30000

Tour	Location	Duration	Price	Action
GILGIT TOUR	Gilgit	10 Days	PKR 50000	VIEW DETAILS
HUNZA TOUR	Hunza	7 Days	PKR 40000	VIEW DETAILS
New tour	Gilgit	12 Days	PKR 5000	VIEW DETAILS
New test tour	Hunza	12 Days	PKR 25000	VIEW DETAILS
TOUR 1	KiU	3 Days	PKR 5500	VIEW DETAILS
Tour to Naran, Babusar Top & Saiful Malook	Naran	3 Days	PKR 18000	VIEW DETAILS

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Home / Tour / Details

GILGIT TOUR

From 1 to 11 Days

Departure: KARACHI

PKR 50000

[BOOK NOW](#)

Overview

Hunza is a mountainous valley in the Gilgit-Baltistan region of Pakistan. The Hunza is situated north-west of the Hunza River, at an elevation of around 2,500 meters (8,200 ft). The territory of Hunza is about 7,900 square kilometers (3,100 sq mi). Altit.

Description

A mixture of beauty, optimism of people, silence, blue, a bit of tragedy. Altitabad lake is Pakistan's largest artificial lake created by a severe landslide during the 2010 heavy rain in Gilgit-Baltistan. It is located in the Hunza valley, which is a part of the Panjshir Gorge Valley. The sanguine 45 minutes boat ride in the lake to the rimane or the end is an unforgettable experience. As the boat moves through the turquoise colors leaves leaped by high rugged coastal mountains, the journey seems to arrest in your heart forever where every scene tends to have multiple makeovers having an instant display of splendor. During the summer the warm climate soothes the soul and the glistening sunshine shines onto the sparkling Passu Cathedrals that rise dramatically behind the fluttering clouds. In winters you can even wal

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[Home](#) [How it works](#) [Vendors](#) [Become a buyer](#) [FAQs](#)
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Hotel Booking

Hotel

Search a hotel

Location All

Price

	pine park 123 street	Price: 3000 for 1 night per room	VIEW DETAILS
	Paradise Beach Hut Karachi	Price: 6000 for 1 night per room	VIEW DETAILS
	Paradise Beach Hut Karachi	Price: 3000 for 1 night per room	VIEW DETAILS
	Hotel Seaview Karachi	Price: 4500 for 1 night per room	VIEW DETAILS

Home / Hotel / Details

Hotel Seaview
Karachi

PKR 4500

[BOOK NOW](#)

Facilities
Food & Drink

Description
This property is a 12-minute walk from the beach. Located on the beachfront in Karachi and featuring a shared lounge. Hotel Seaview has free WiFi. The property has a shared kitchen, room service and c.

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Home
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Transport Booking

Transport

Search a transport

Location All

Price

	2012 Honda Sedan	Price: 3000	VIEW DETAILS
	Corolla Toyota Sedan	Price: 6000	VIEW DETAILS
	Corolla 2014 Toyota Sedan	Price: 7500	VIEW DETAILS
	Land Cruiser 2018 Toyota SUV	Price: 15000	VIEW DETAILS

Home / Transport / Details

Land Cruiser 2018
Toyota
SUV
Islamabad

PKR 15000

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Home
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App UI

Login



Enter Name

Enter pass

[forgot your password?](#)

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Home Page



Last Announcement
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Last Announcement
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Current Event
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Itinerary Plan
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+
House icon
Profile icon
Profile icon (highlighted)
Gear icon

Select Tour



HUNZA
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SKARDU
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec dapibus tincidunt bibendum. Maecenas eu viverra orci. Duis diam leo, porta at justo vitae, euismod aliquam nulla.

HUNZA
Pakistan

SKARDU
03362909604

HUNZA
Male

Guest Page[← Select Tour](#)

Samad
No Of Guests: 5

Hunzala
No Of Guests: 3

Ahmed
No Of Guests: 10

Samad
No Of Guests: 5

Hunzala
No Of Guests: 3

**Broad Cast Message**[←](#)[New Message](#)**Create Message**

Make An Announcement

[submit](#)

11 Reuse and relationships to other products

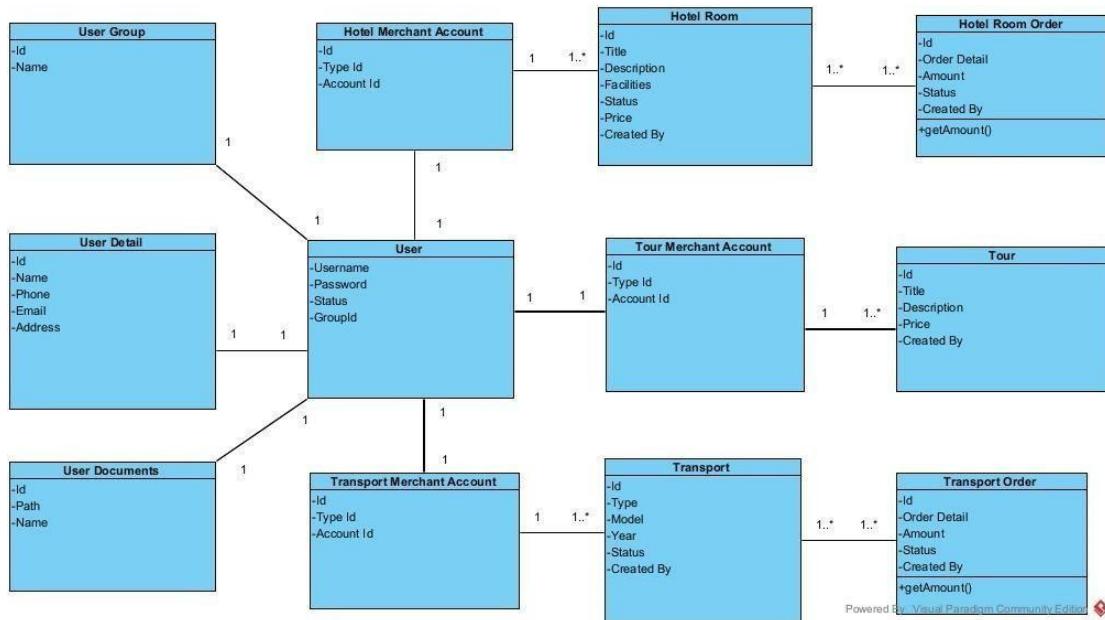
We have already created some mobile and web apps with similar functionalities and designs which we have reuse in this project in order to save time and give more time in developing new features.

12 Design decisions and tradeoffs

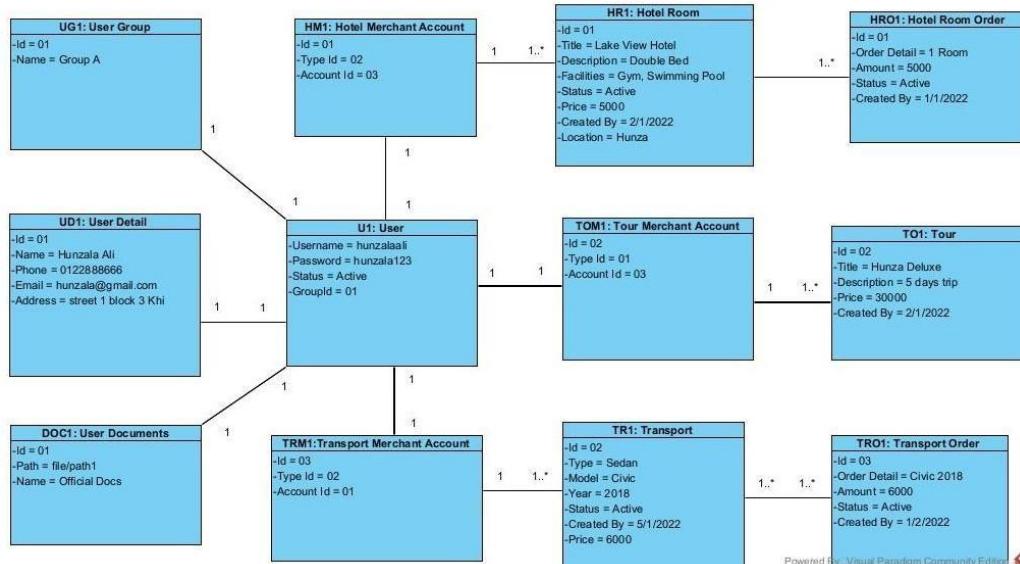
N/A

13 Appendices

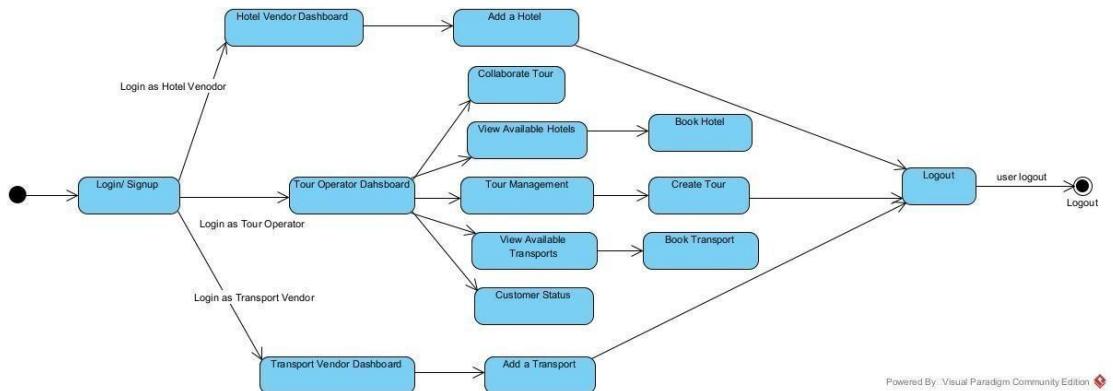
- Class Diagram



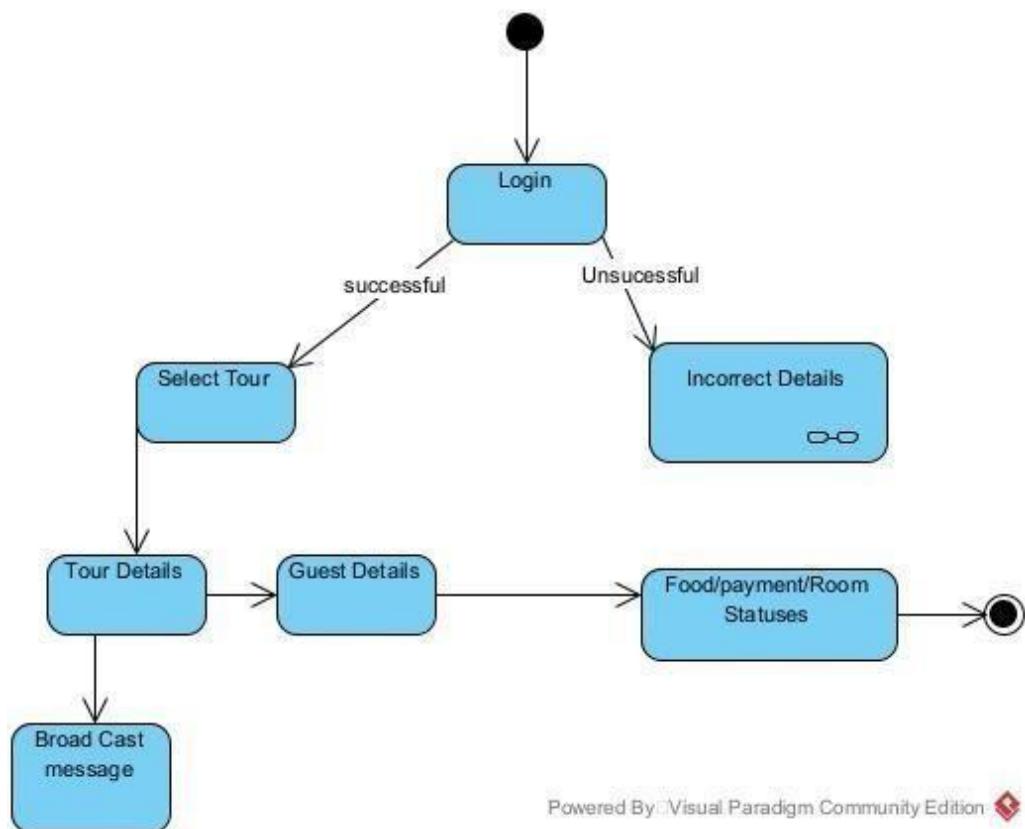
- Object Diagram



- **Statechart Diagram (Web)**

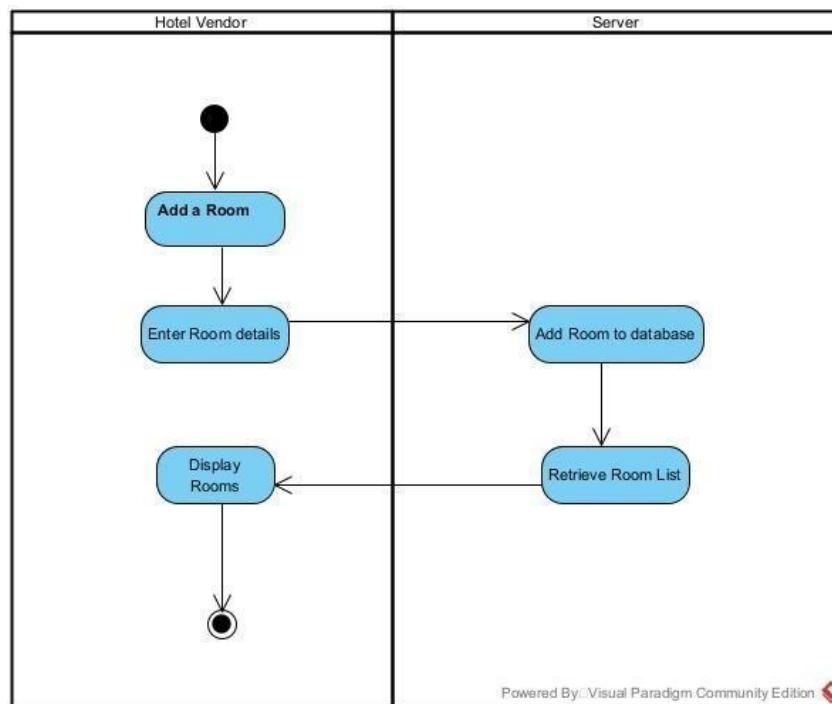


- **State chart Diagram (App)**

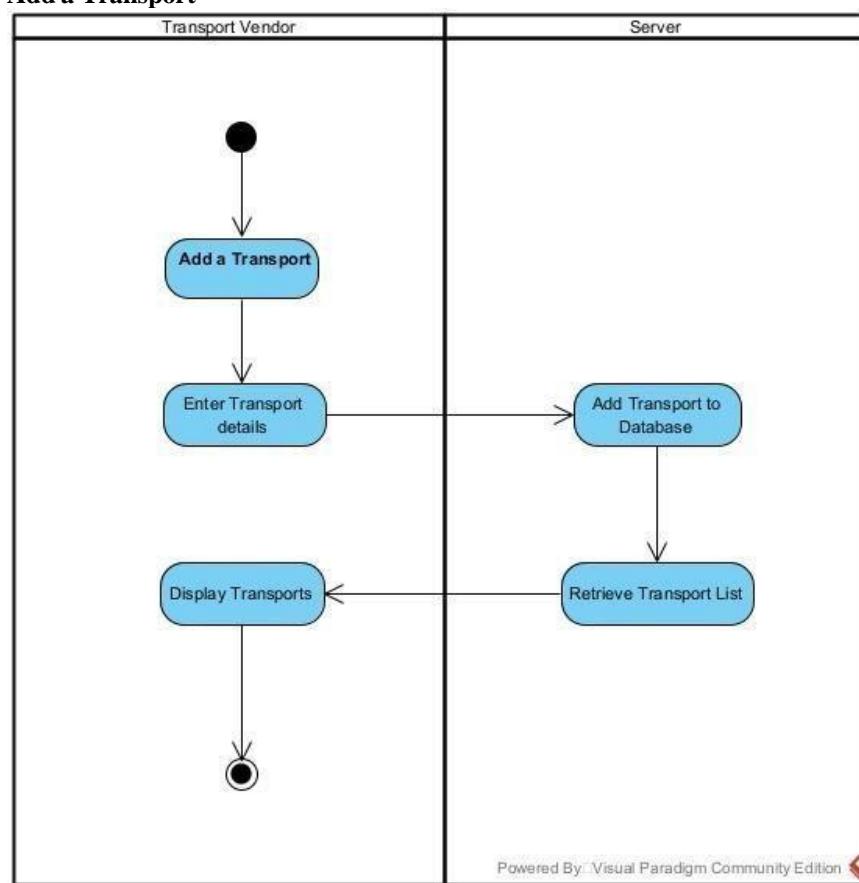


- **Activity Diagram (Web)**

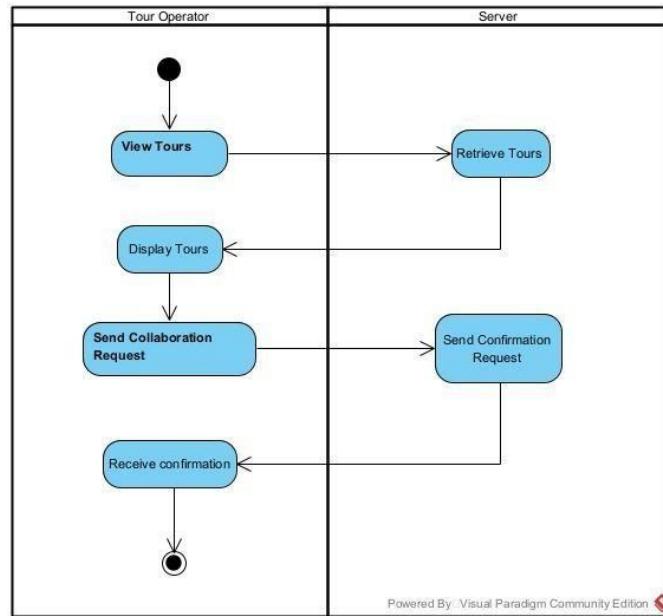
Add a Room



Add a Transport

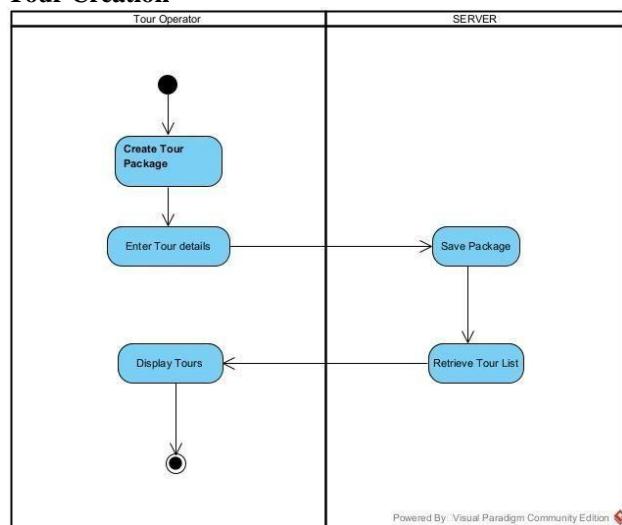


Tour Collaboration



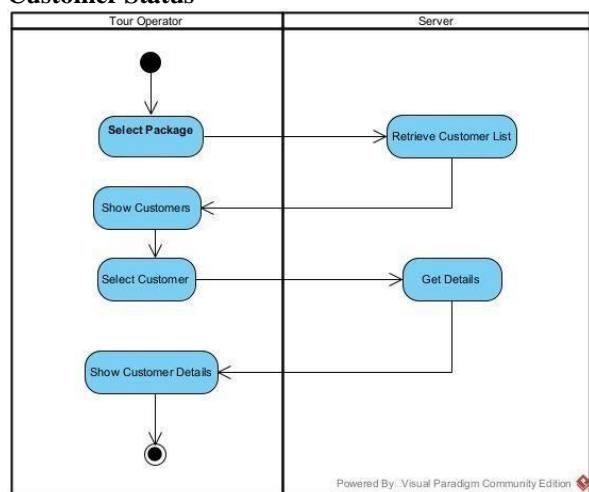
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Tour Creation



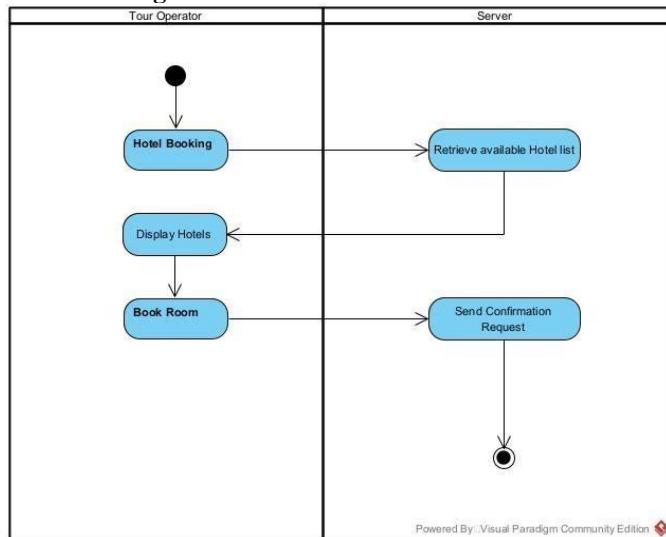
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Customer Status

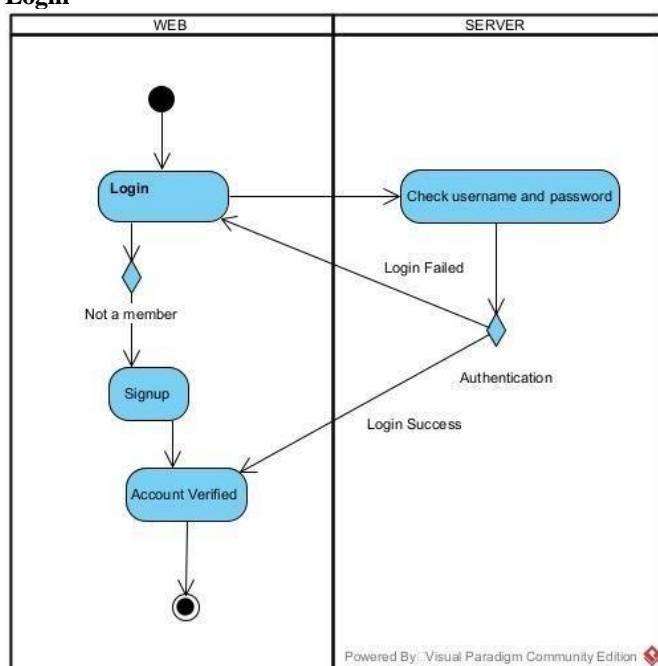


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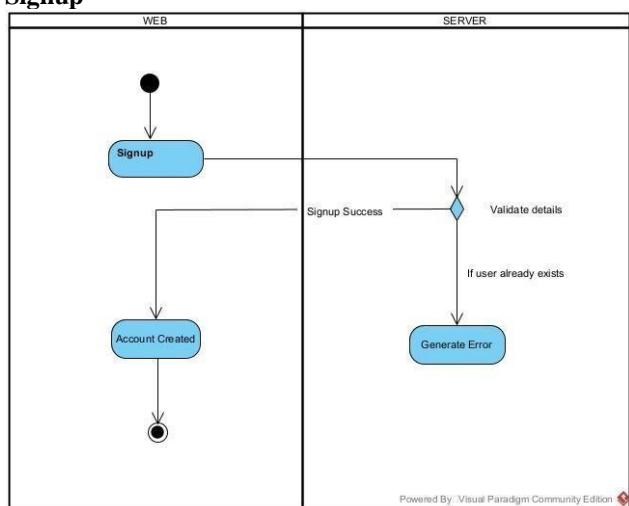
Hotel Booking



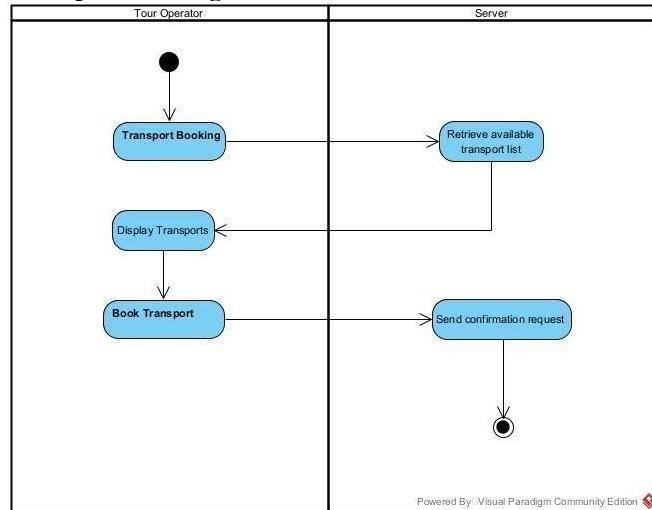
Login



Signup

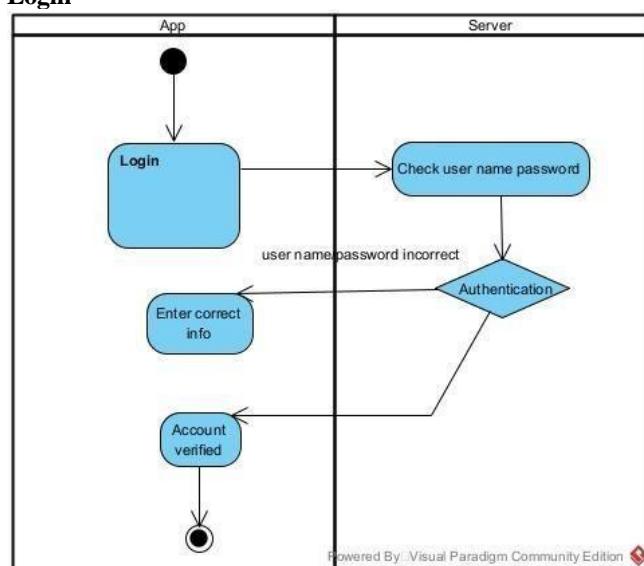


Transport Booking

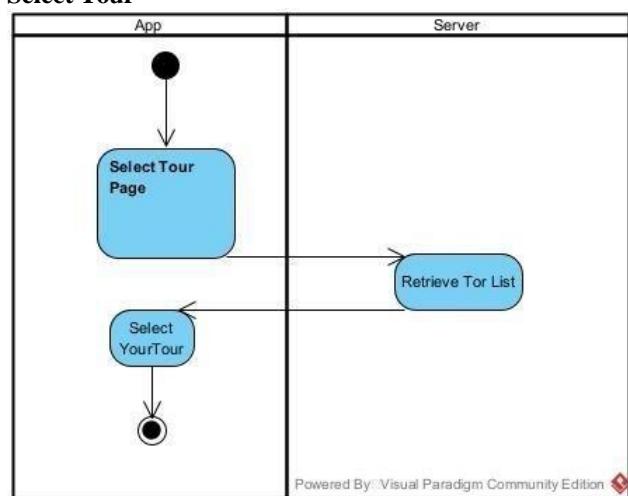


- **Activity Diagram (App)**

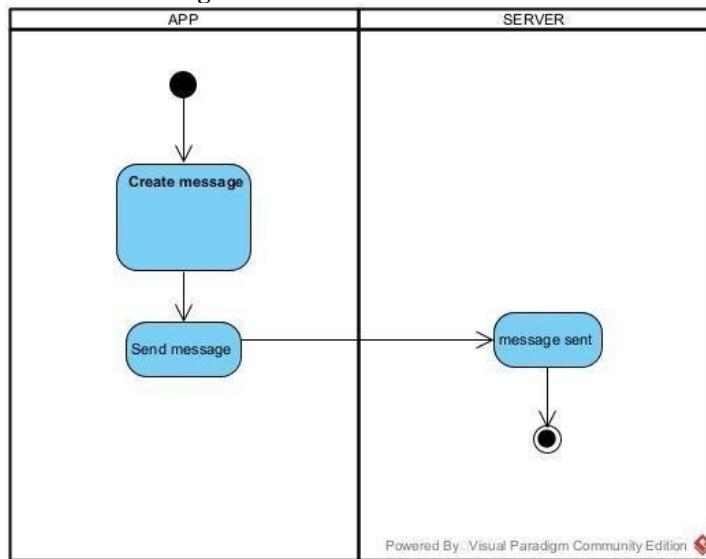
Login



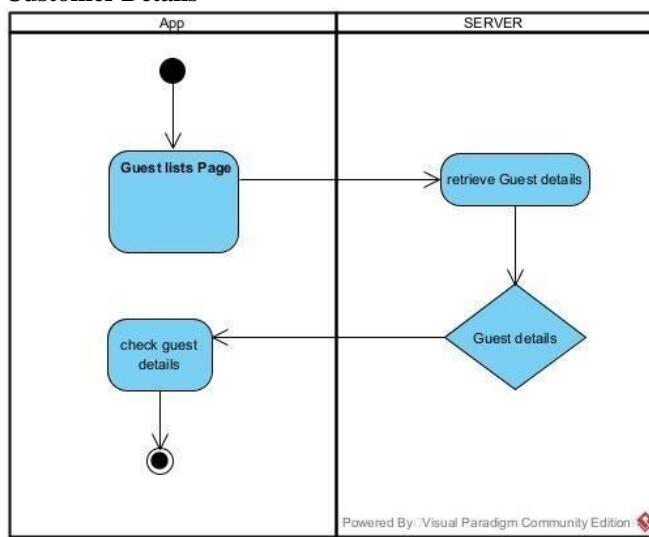
Select Tour



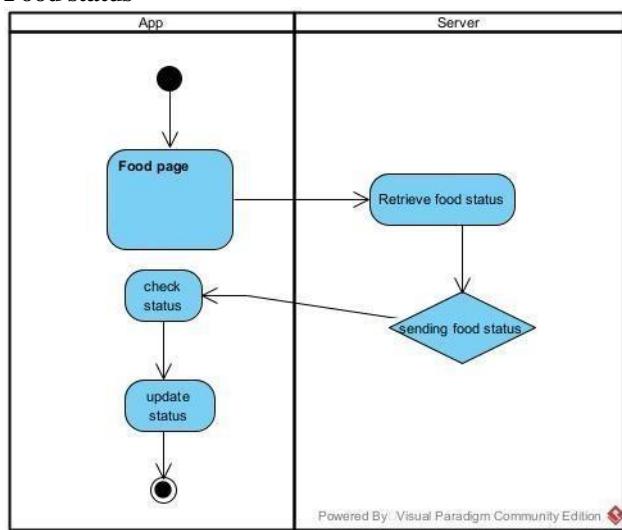
Broad cast message:



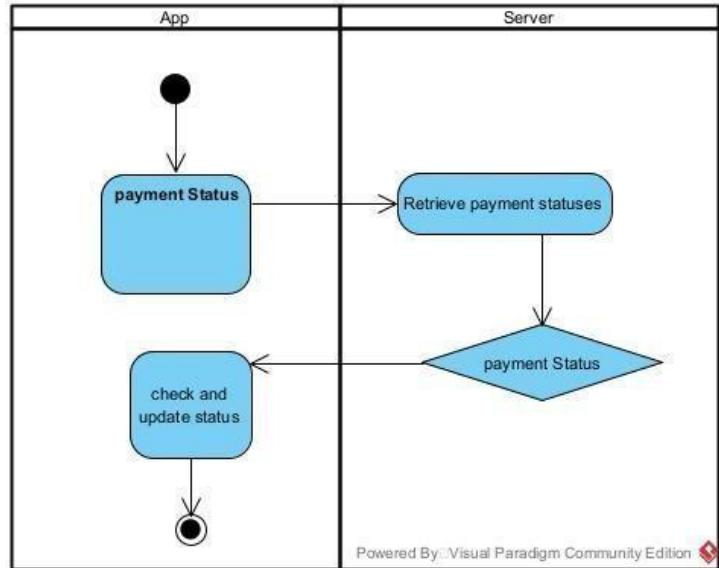
Customer Details



Food status

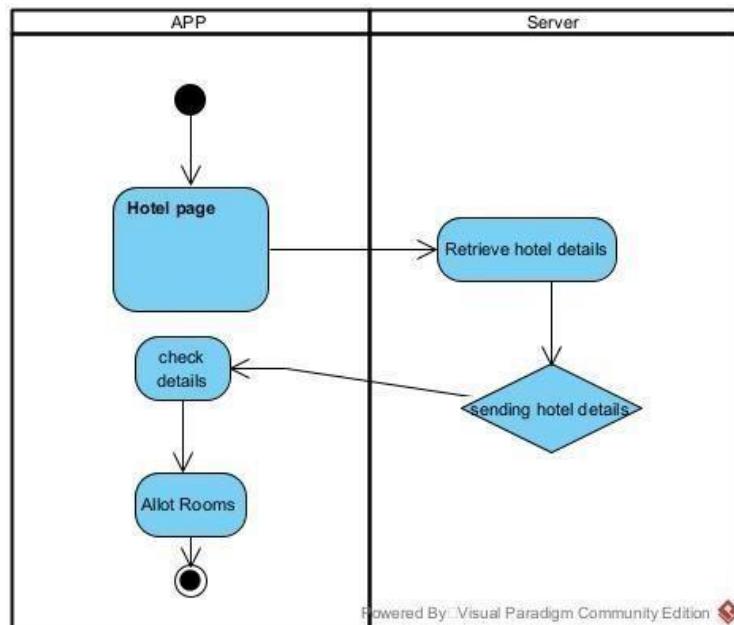


Payment Status



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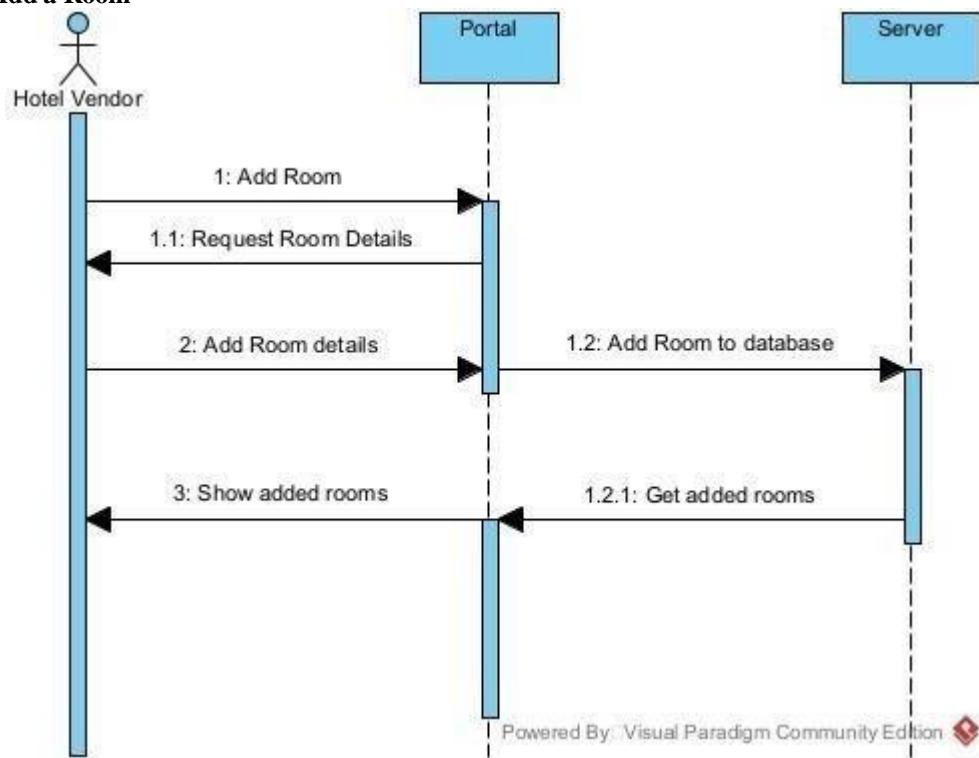
Room Status



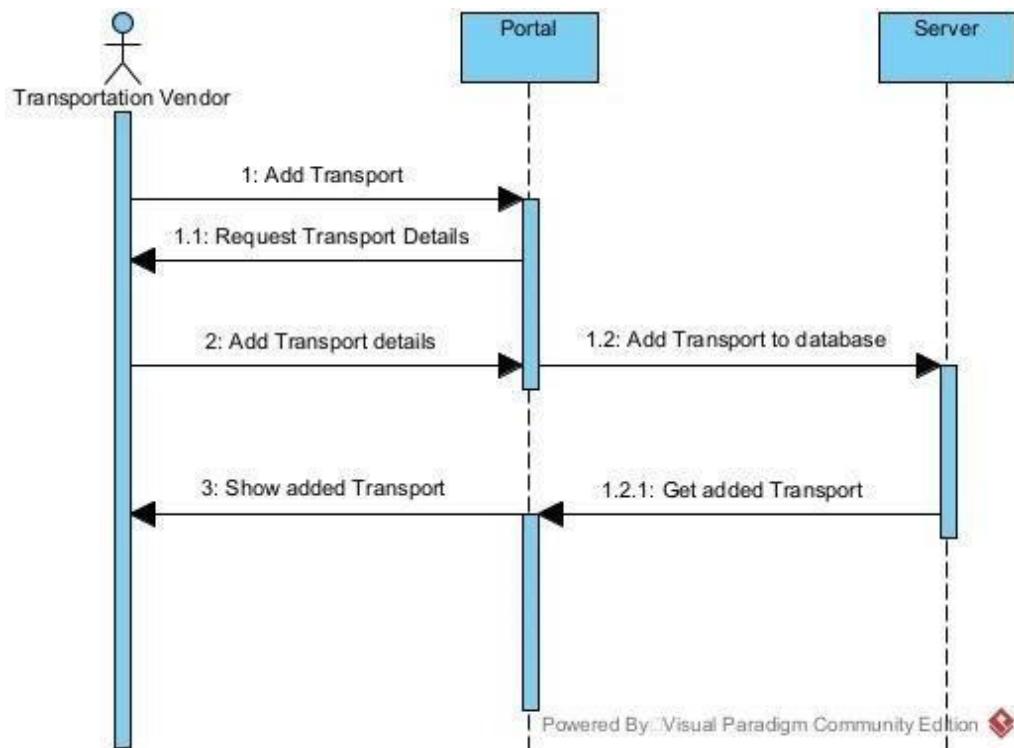
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- Sequence Diagram (Web)

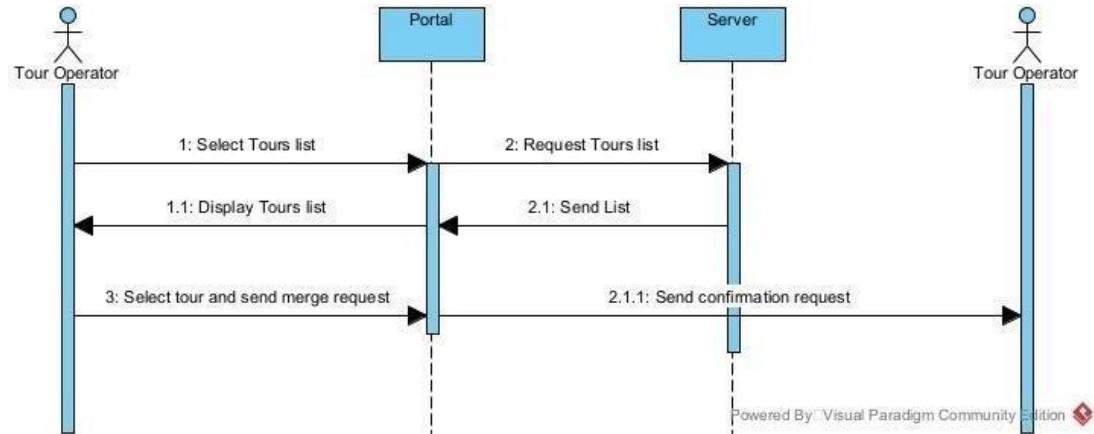
Add a Room



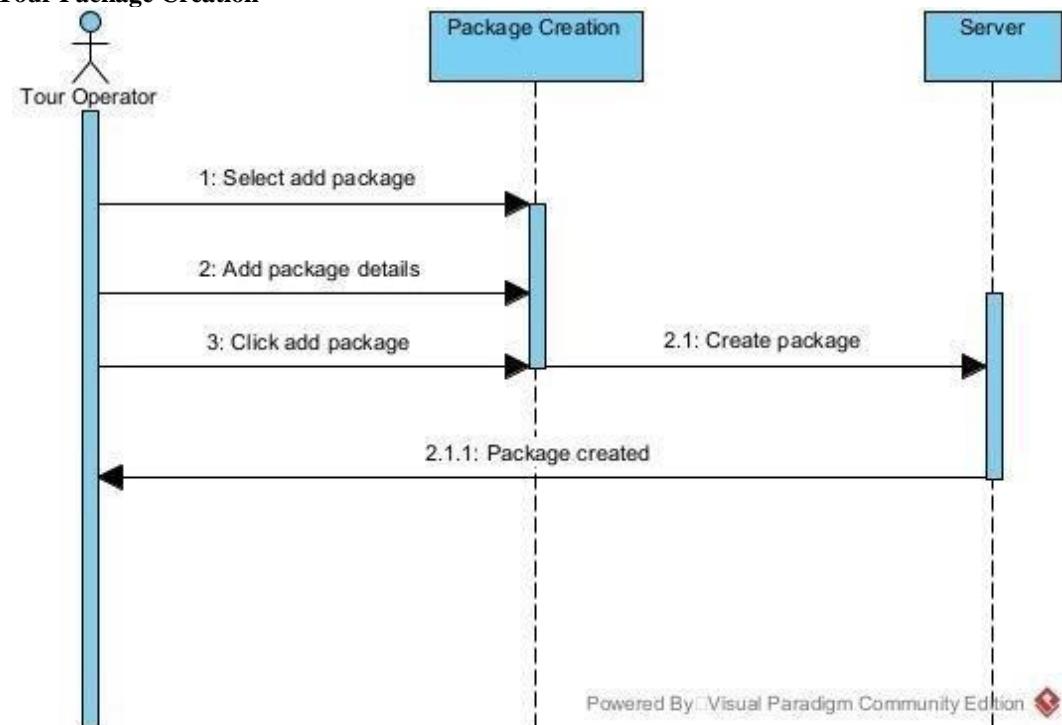
Add a Transport

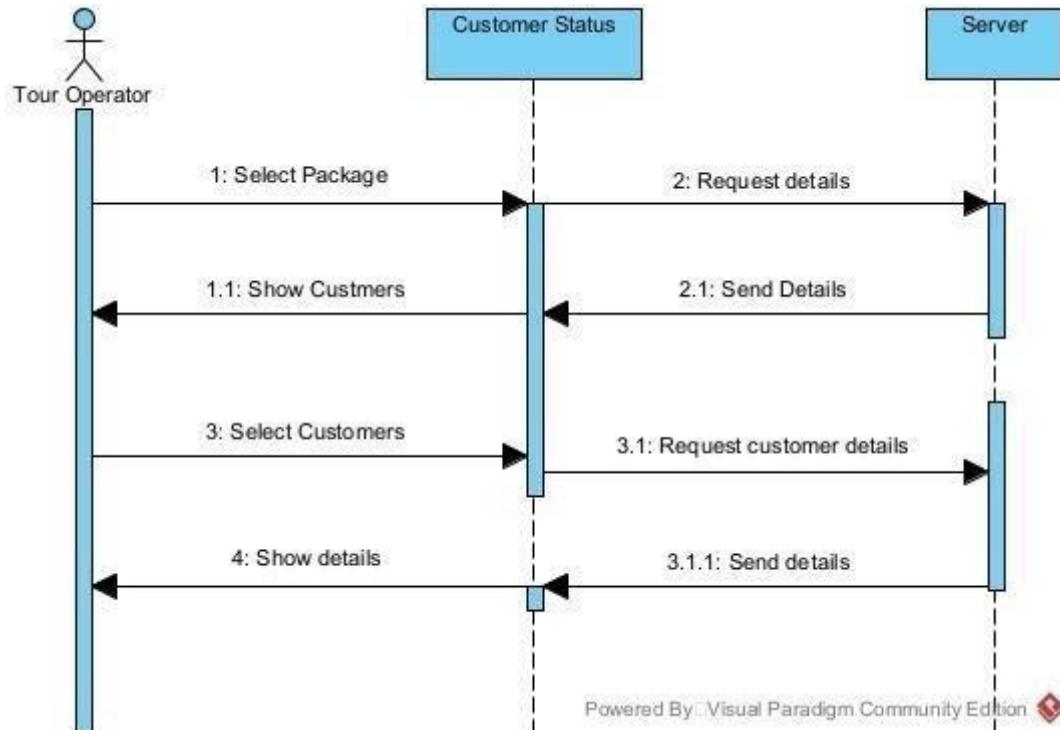


Tour Collaboration

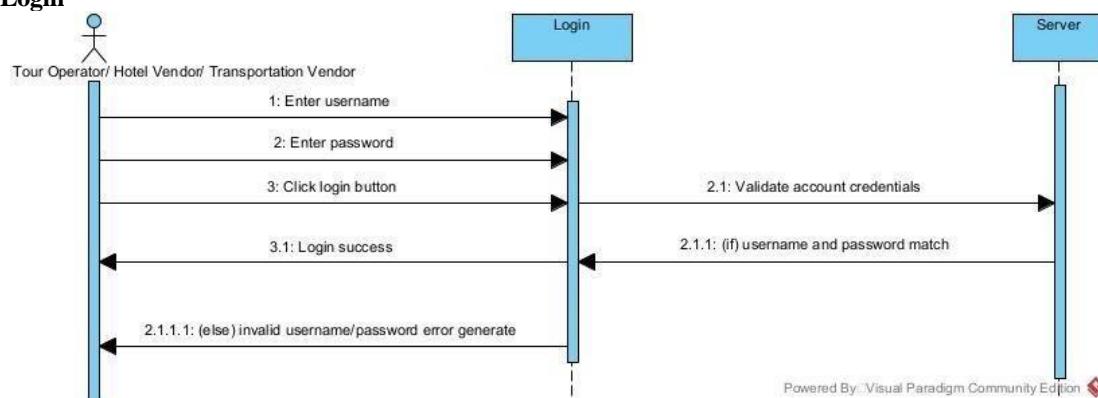


Tour Package Creation

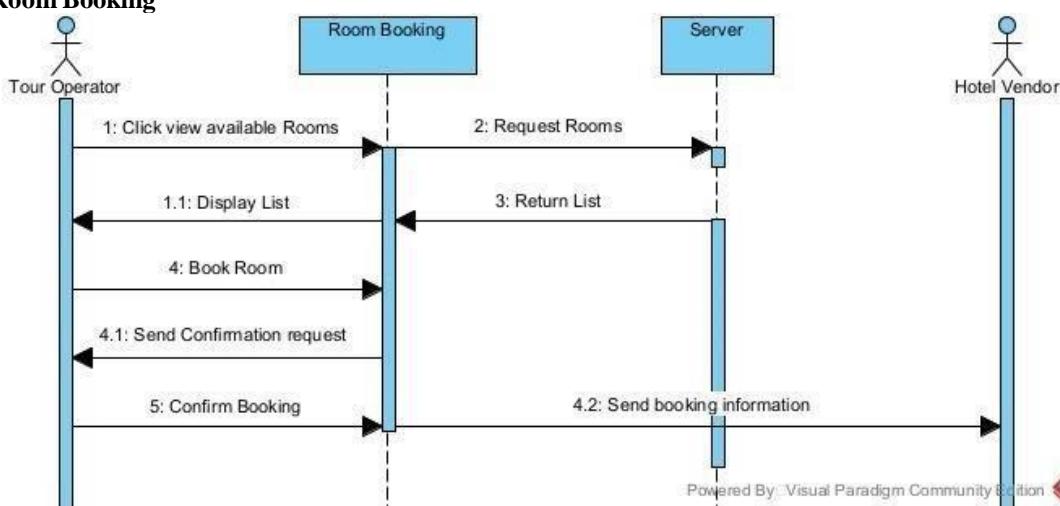


Customer Status

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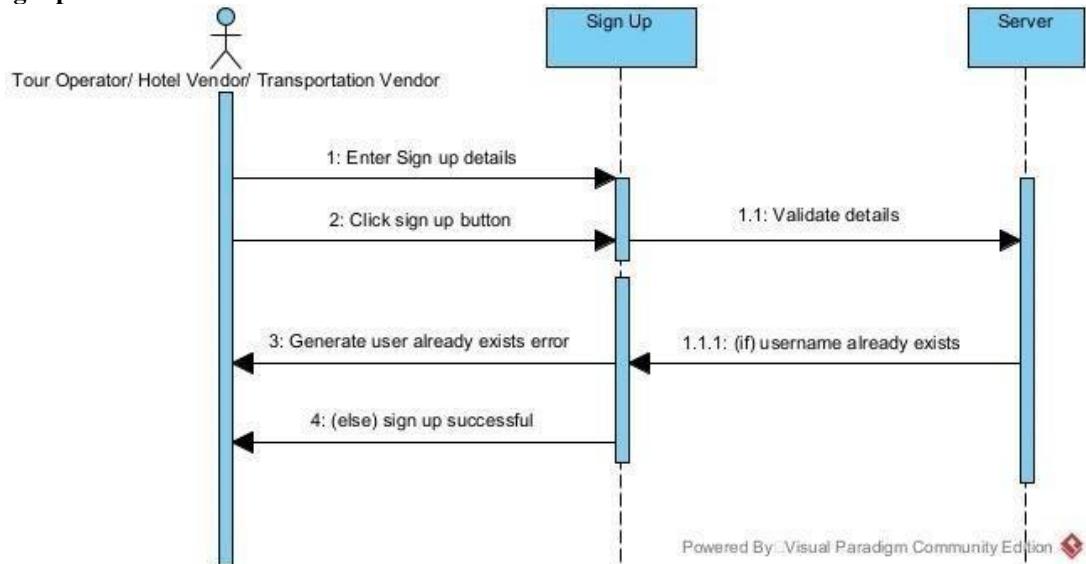
Login

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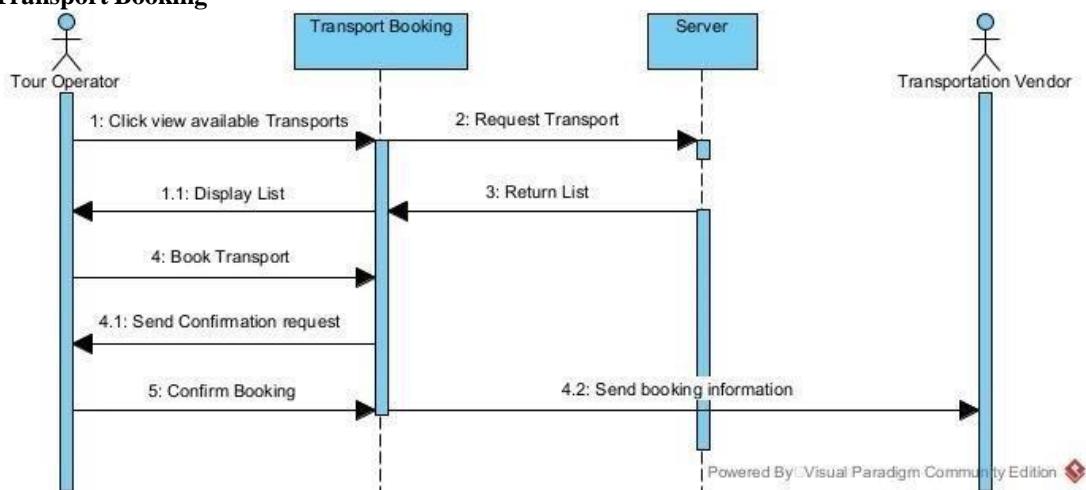
Room Booking

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Signup

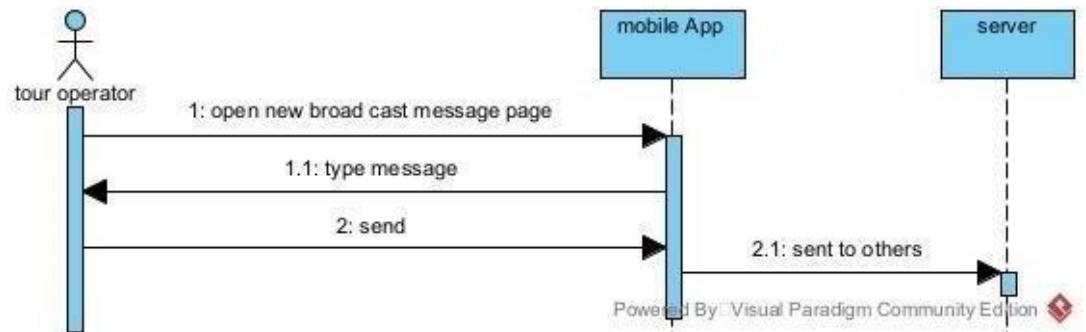


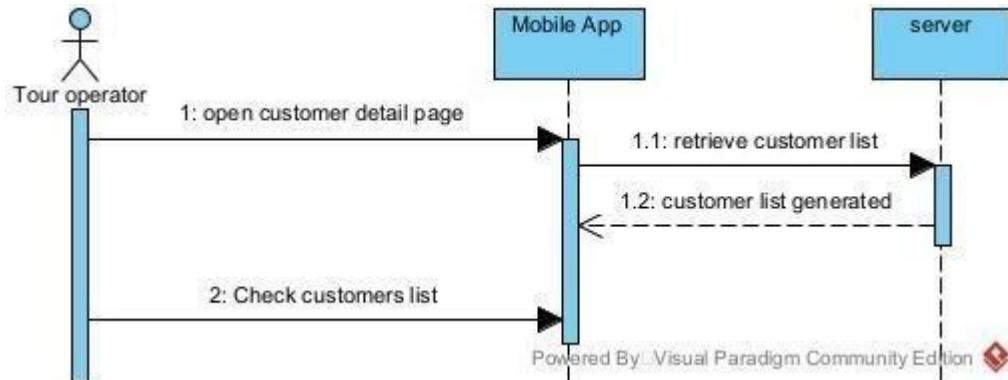
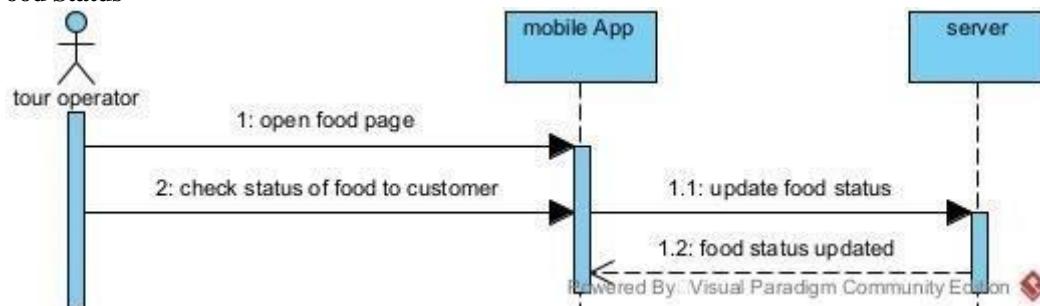
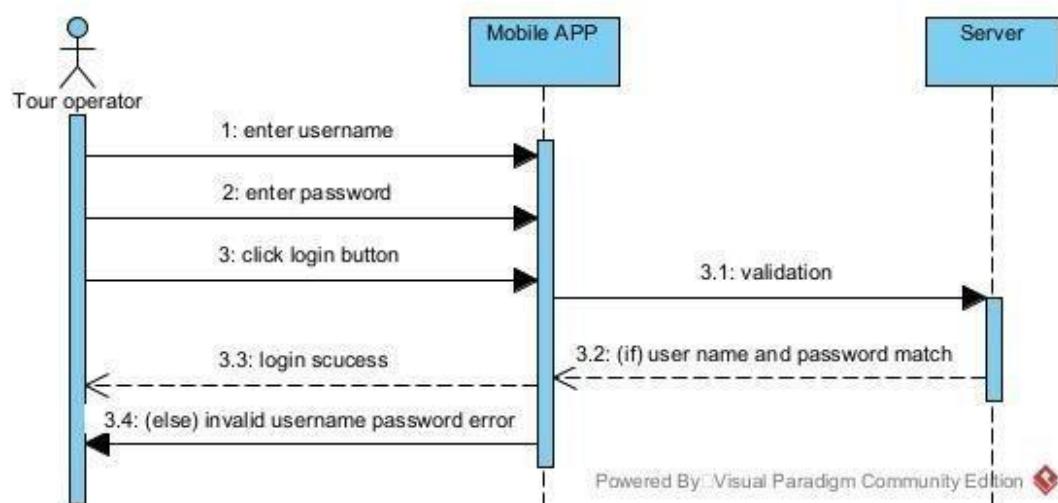
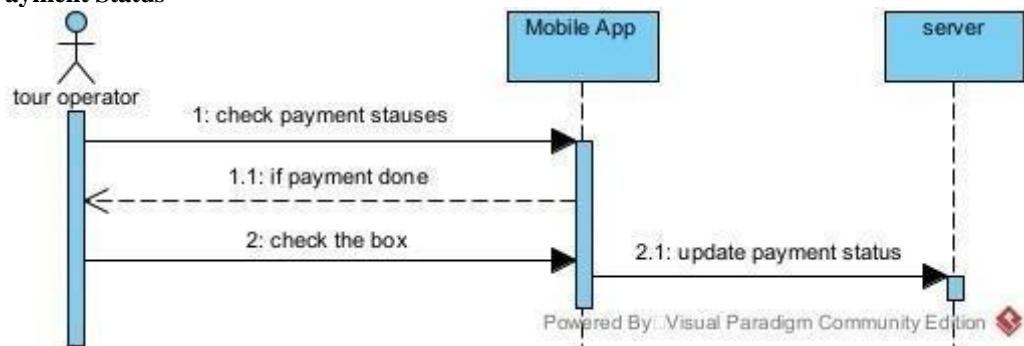
Transport Booking

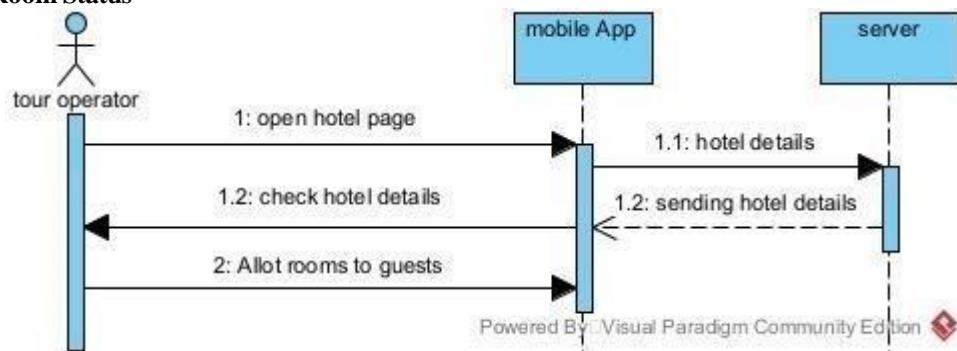
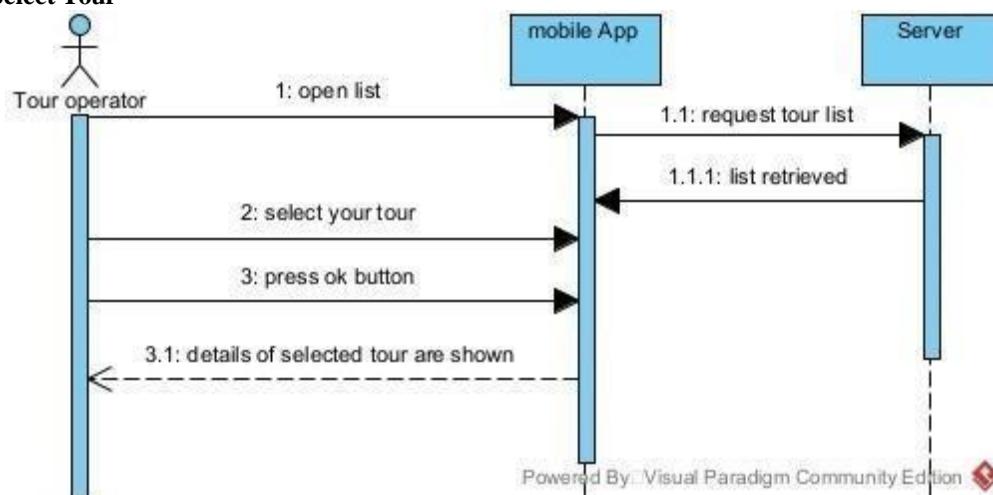


- **Sequence Diagram (App)**

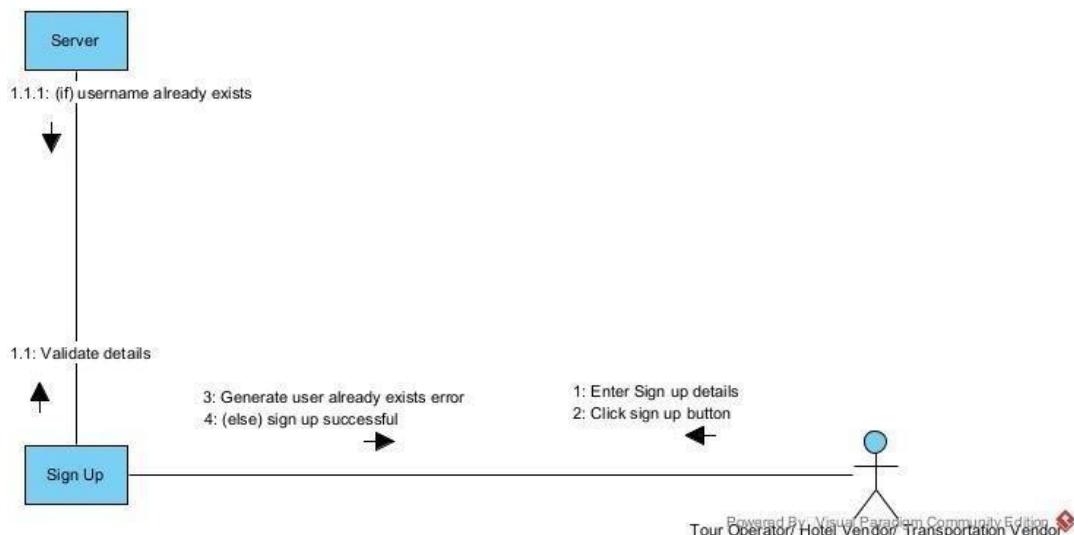
Broad cast message



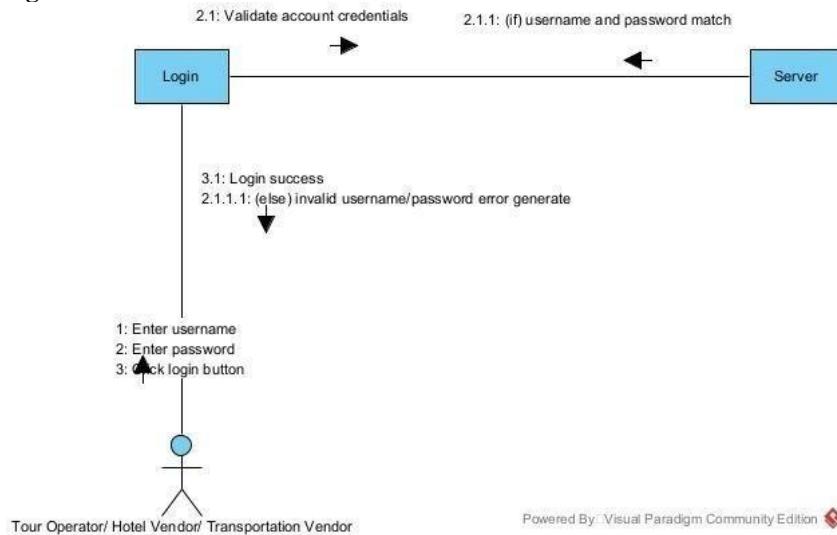
Customer Detail**Food Status****Login****Payment Status**

Room Status**Select Tour**

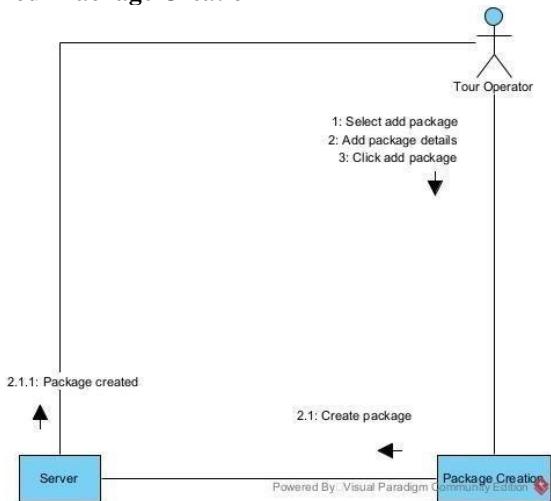
- Collaboration Diagram (Web)**

Signup

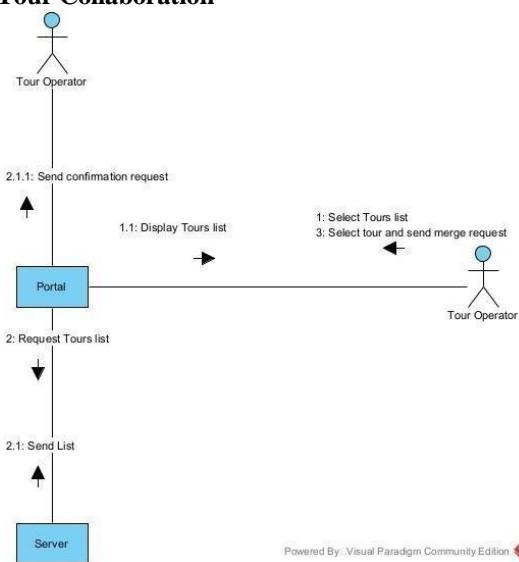
Login



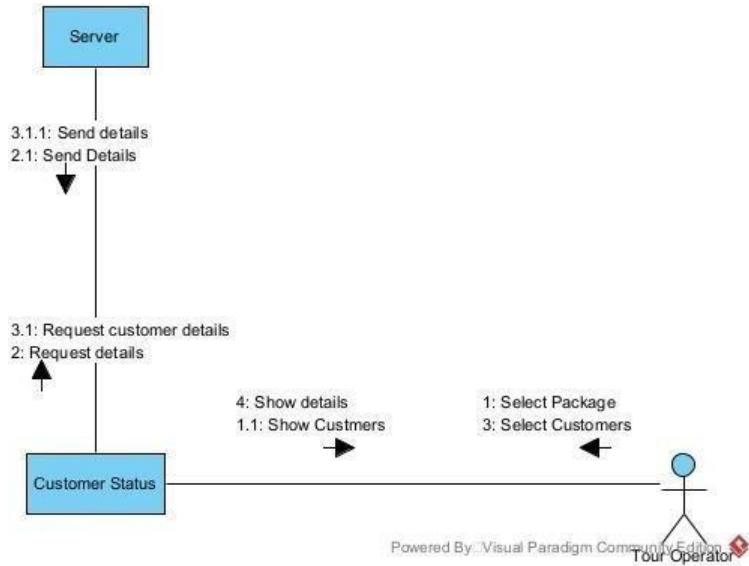
Tour Package Creation



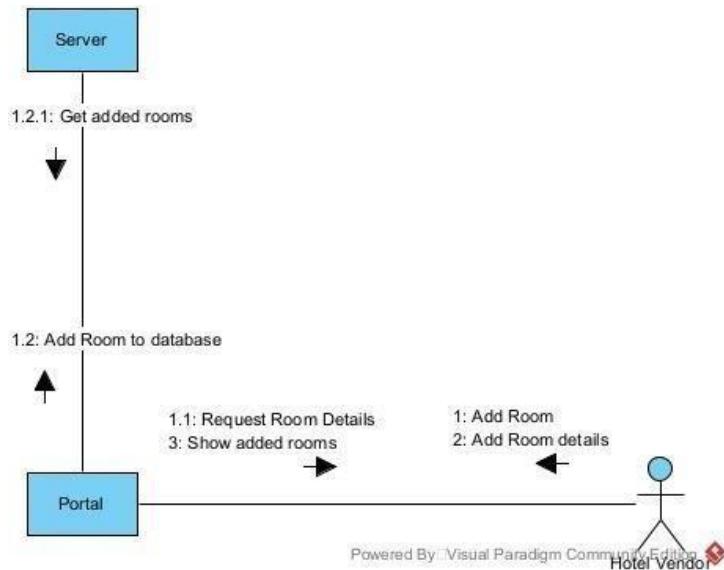
Tour Collaboration



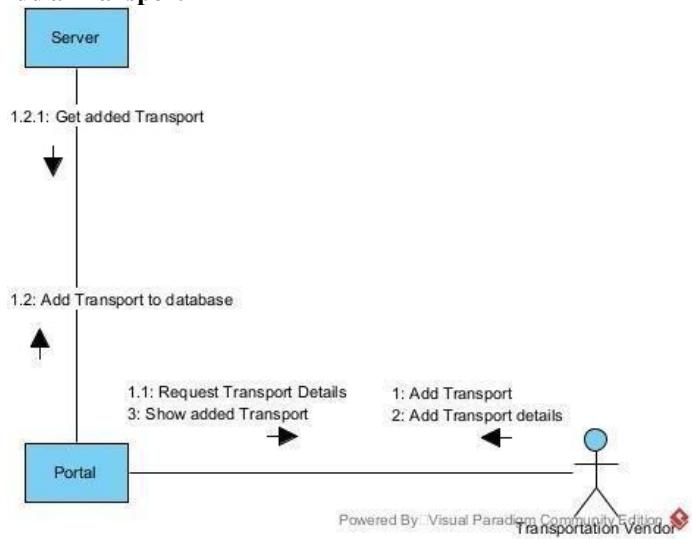
Customer Status



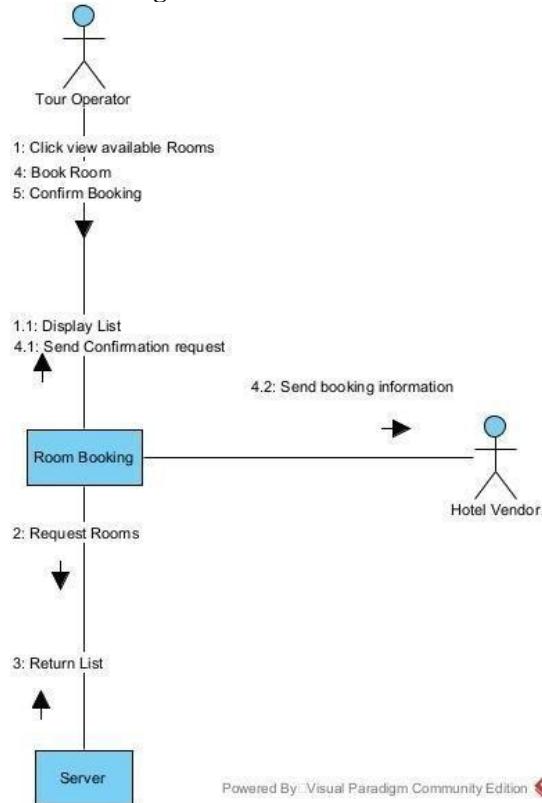
Add a Room



Add a Transport

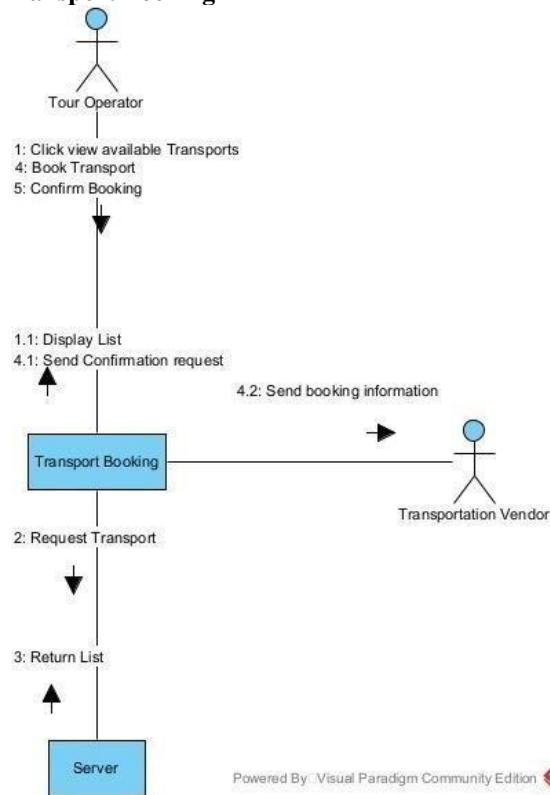


Room Booking



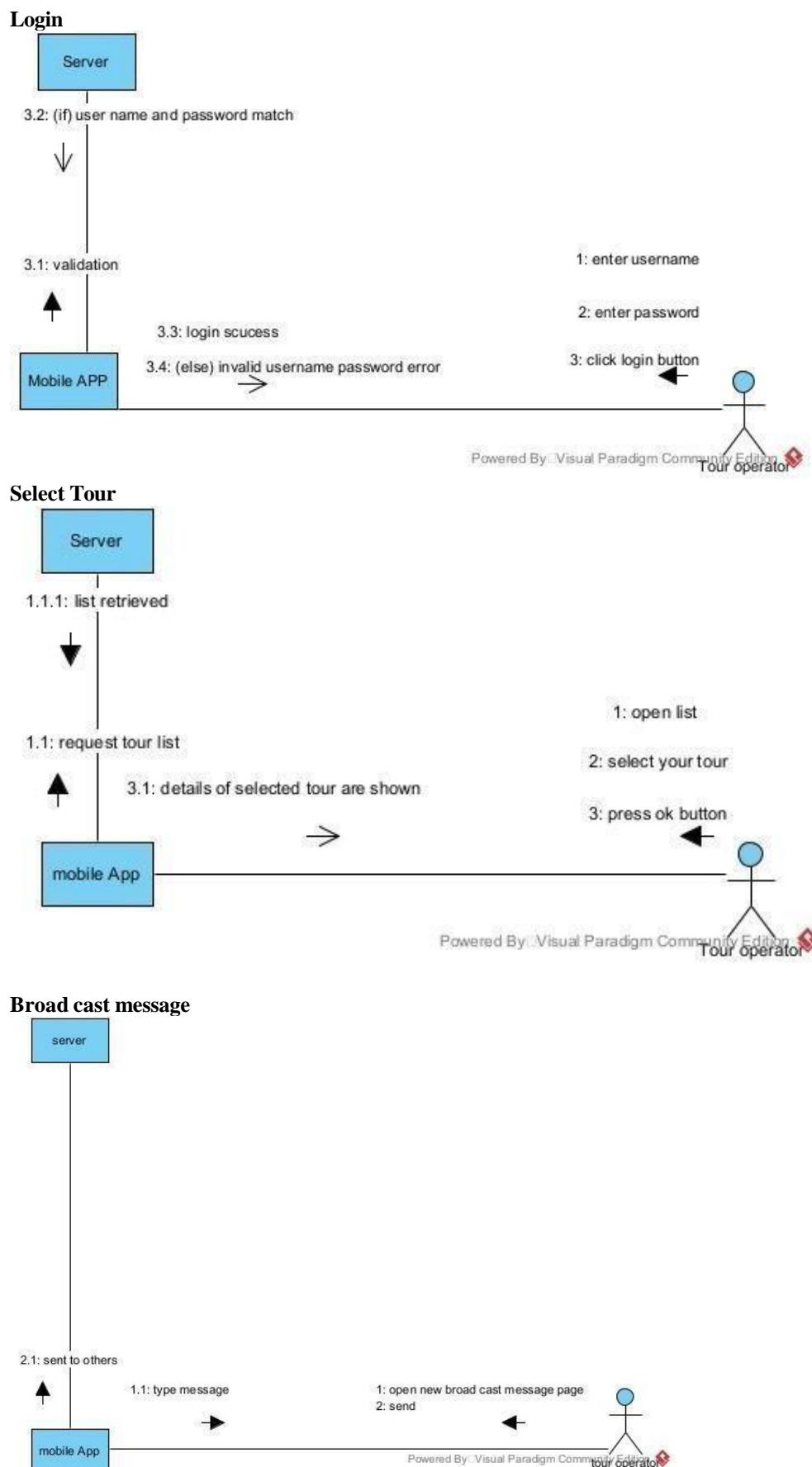
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Transport Booking

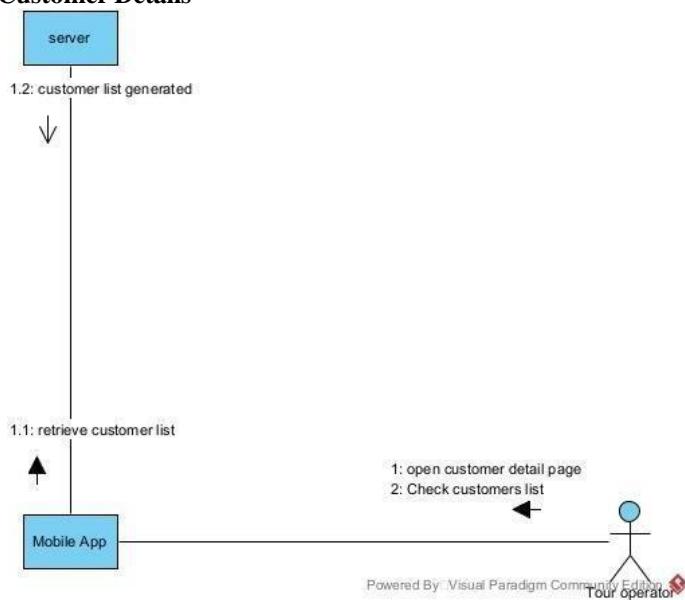


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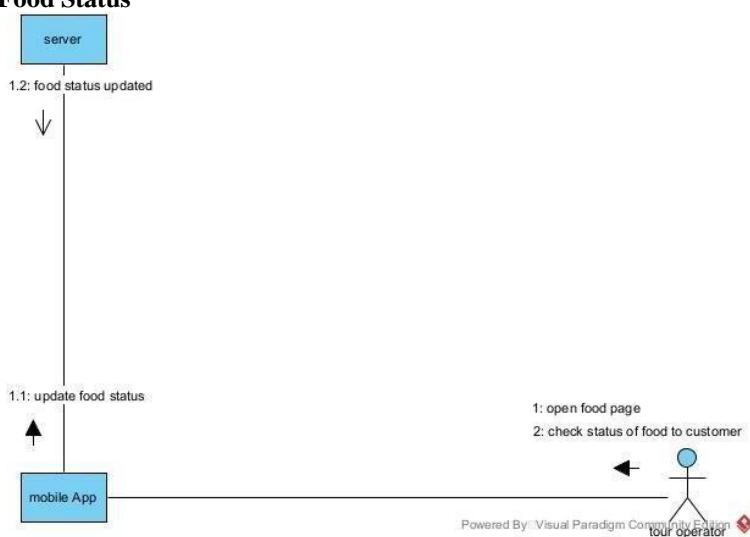
• Collaboration Diagram (App)



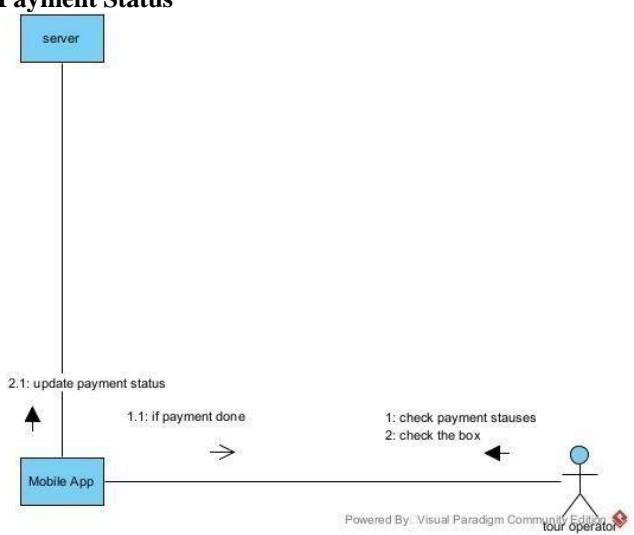
Customer Details

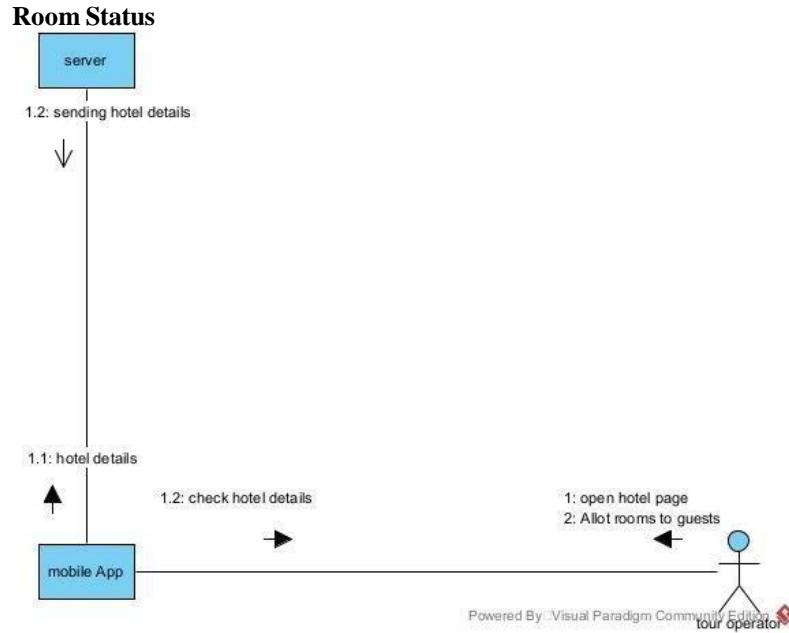


Food Status

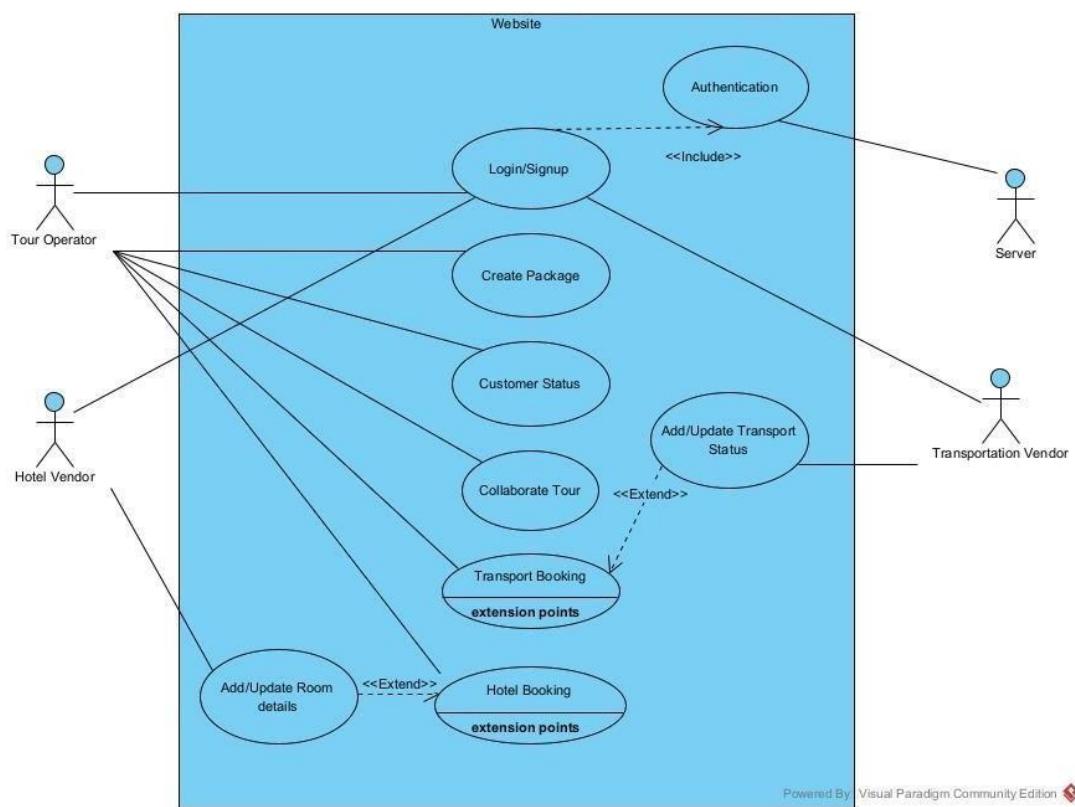


Payment Status

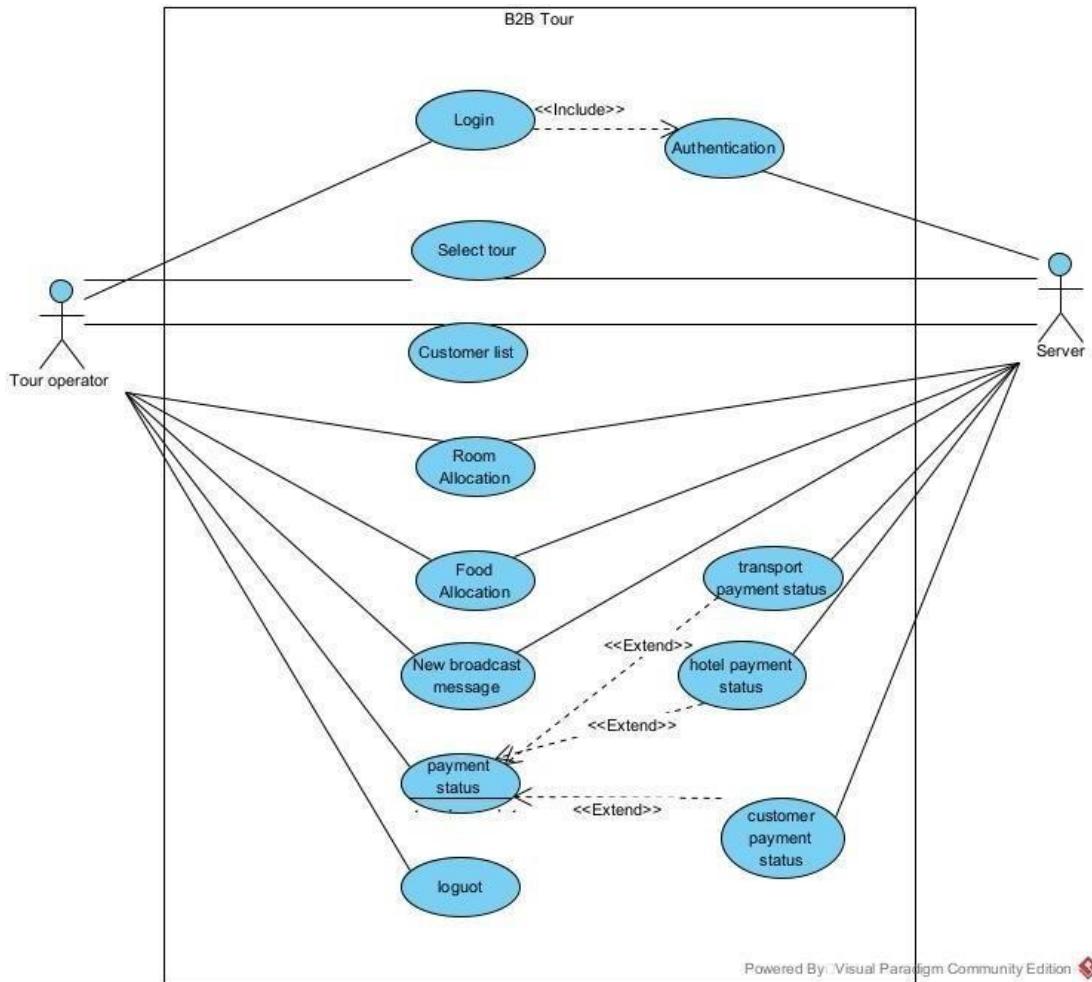




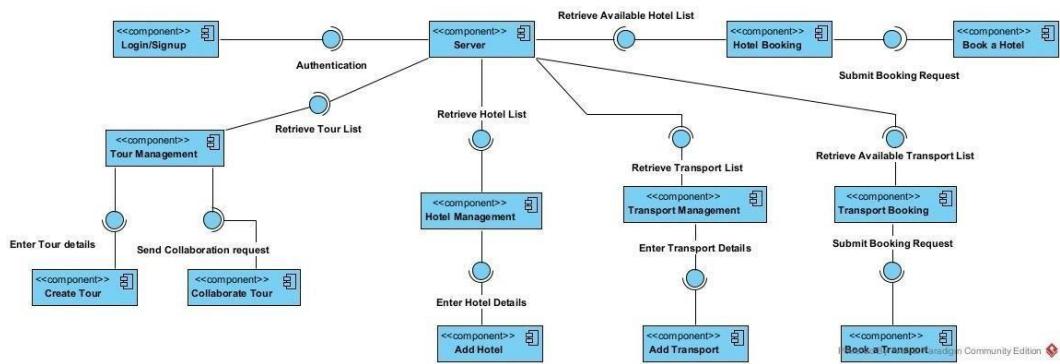
- **Use-case Diagram (Web)**



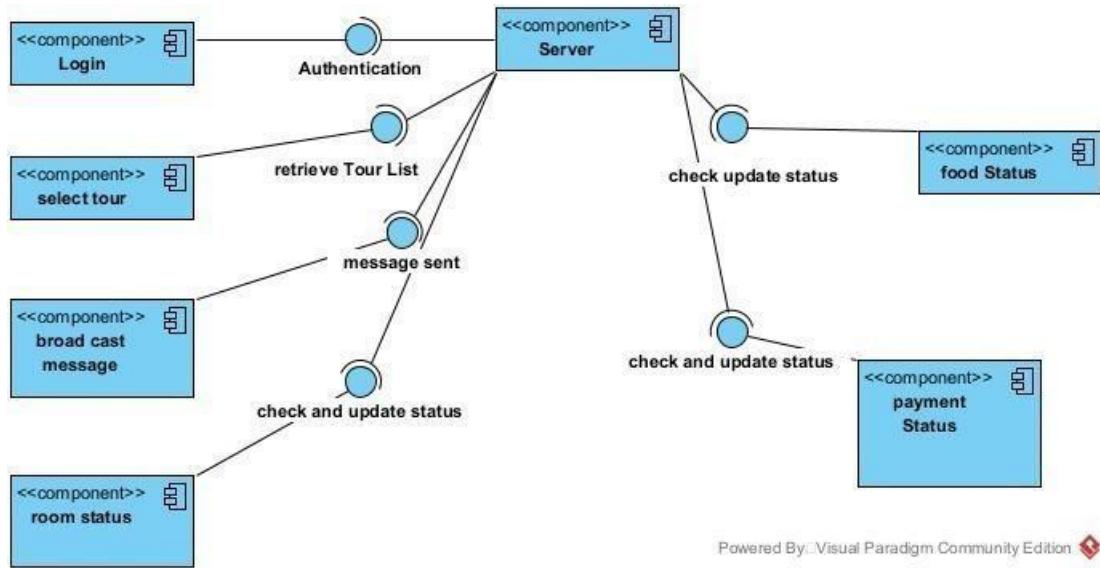
- Use-case Diagram (App)



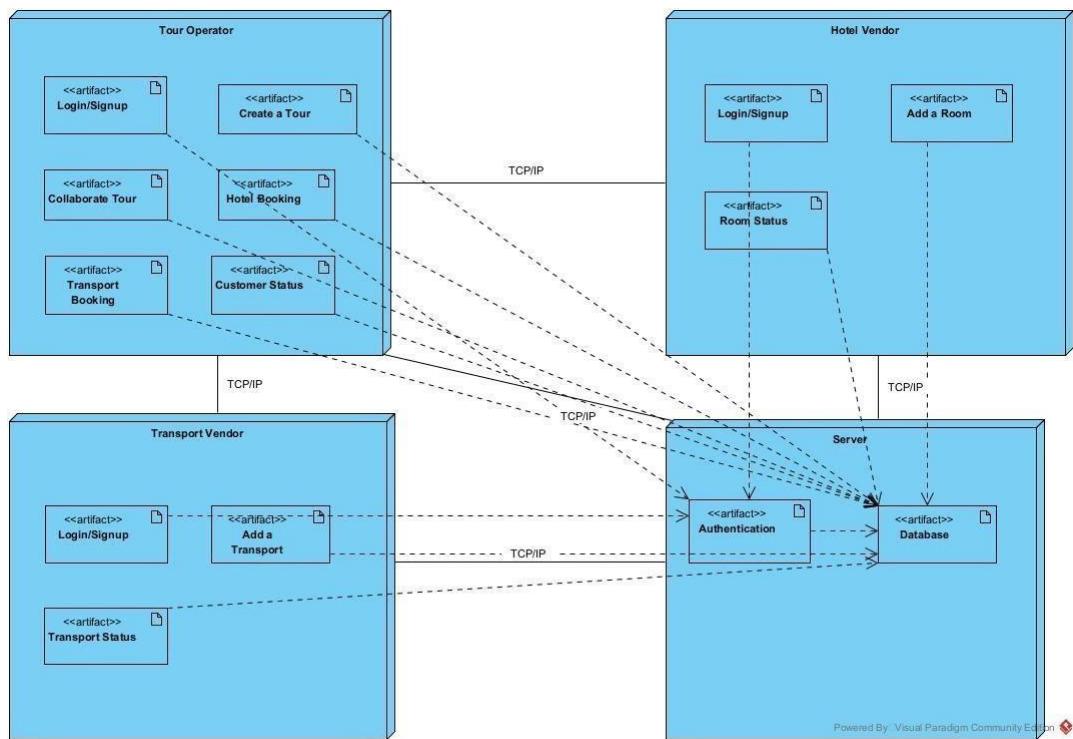
- Component Diagram (Web)



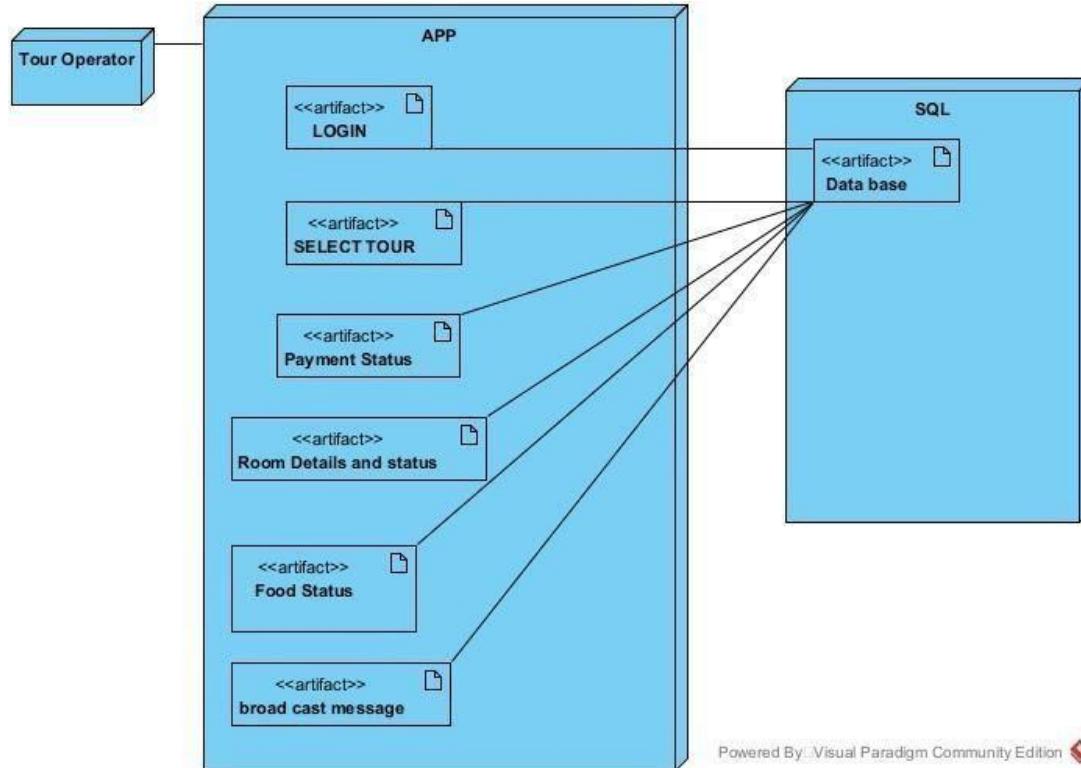
- Component Diagram (App)



- Deployment Diagram (Web)



- Deployment Diagram (App)



14 TEST CASE WEBSITE

Test Case # 1

Test Case ID	Test Case Name	Test Case Summary	Test Steps Case	Expected Result	Actual Result	Pass/Fail
1	Signup	This test case is used to test Signup functionality	1.1 Enter correct details to Signup	Sign up request should be proceeded	Signup done	PASS
			1.2 Enter the same email to sign up	Error message should be displayed	Error generated is	PASS
			1.3 Skip any of the sign up detail field	Error message should be displayed	Error generated	PASS

Test Case # 2

Test Case ID	Test Case Name	Test Case Summary	Test Steps	Expected Result	Actual Result	Pass/Fail
2	Login	This test case is used to test Login functionality	2.1 Enter correct Email and password to Login	Portal Page should be displayed	Portal page is displayed	PASS
			2.2 Enter wrong credentials to Login	Error message should be displayed	Error generated	PASS

Test Case # 3

Test Case ID	Test Case Name	Test Case Summary	Test Steps	Expected Result	Actual Result	Pass/Fail
3	Create Package	This test is used to test the create package functionality	1.Select add package	Package detail page should be opened	Page is opening	PASS
			2.Add package details and click on submit button	Package should be created	Package created	PASS
			3. Select and package and click on delete	Package should be deleted	Package deleted	PASS

Test Case # 4

Test Case ID	Test Case Name	Test Case Summary	Test Case Steps	Expected Result	Actual Result	Pass/Fail
4	Book Room Hotel	This test is used to test the Hotel room booking functionality	1. Select the room from the list of hotel room	Display list of rooms available	List is generated	PASS
			2. Book hotel room	Confirmation request should be sent	Request sent	PASS
			3. Book already booked room	Error: Hotel room already booked	Error generated	PASS

Test Case # 5

Test Case ID	Test Case Name	Test Case Summary	Test Case Steps	Expected Result	Actual Result	Pass/Fail
5	Book Transport	This test is used to test the transport booking functionality	1. Select the transport from list of transport	Display list of transport available	List generated	PASS
			2. Book transport	Confirmation request should be sent	Request sent	PASS
			2. Book already booked transport	Error: Transport already booked	Error generated	PASS

Test Case # 6

Test Case ID	Test Case Name	Test Case Summary	Test Steps	Expected Result	Actual Result	Pass/Fail
6	Customer Status	This test is used to test the customer status functionality	1. Select the Customer from the list of Customers	Customer details page should open	Page is opening	PASS

Test Case # 7

Test Case ID	Test Case Name	Test Case Summary	Test Steps	Expected Result	Actual Result	Pass/Fail
7	Collaborate Tour	This test is used to test the tour collaboration functionality	1. Select tour to collaborate	Collaborate tour page should be opened	Page is opening	PASS
			2. Send collaboration request	Collaboration request should be sent	Request sent	PASS

Test Case # 8

Test Case ID	Test Case Name	Test Case Summary	Test Case Steps	Expected Result	Actual Result	Pass/Fail
8	Add a Hotel Room	This test is used to test the Add Hotel Room functionality	1. Click the add Room button from Hotel Management Page	Display Room details form	Form generated is	PASS
			2. Enter Room detail	Add room to database	Room added	PASS

Test Case # 9

Test Case ID	Test Case Name	Test Case Summary	Test Case Steps	Expected Result	Actual Result	Pass/Fail
9	Add Transport a	This test is used to test the Add Transport functionality	1. Click the add Transport button from Transport Management Page	Display Transport details form	Form generated	PASS
			2. Enter Transport detail	Add Transport to database	Transport added	PASS

15 TEST CASE MOBILE APP

Test Case # 1

Test Case ID	Test Case Name	Test Case Summary	Test Steps	Expected Result	Actual Result	Pass/Fail
1	Login	This test case is used to test Login functionality	1.1 Enter correct Email and password to Login	Tour list page should be displayed	Login Successful	Pass
			1.2 Enter wrong credentials to Login	Error message should be displayed	Error message displayed	Pass

Test Case # 2

Test Case ID	Test Case Name	Test Case Summary	Test Steps	Expected Result	Actual Result	Pass/Fail
2	Select tour	This function is used to test the Select tour page functionality	1. select tour from list	Tour list page should be opened	Page opens	Pass
			2. press submit button	Move to next page	Moving to next page	Pass

Test Case # 3

Test Case ID	Test Case Name	Test Case Summary	Test Steps	Expected Result	Actual Result	Pass/Fail
3	Broad cast message page	This test is used to test the broadcast message sending functionality	1. open broad cast message page	Brad cast message page should be opened	Message page is opening	PASS
			2. type message and press send	Message should be send as notification	Message sent	PASS

Test Case # 4

Test Case ID	Test Case Name	Test Case Summary	Test Case Steps	Expected Result	Actual Result	Pass/Fail
4	Customer detail	This test is used to test the customer details functionality	1. open customer detail page to check details	customer detail page should opened	Page is opening	PASS

Test Case # 6

Test Case ID	Test Case Name	Test case Summary	Test Case Steps	Expected Result	Actual Result	Pass/Fail
6	Food Allocation	This test is used to test the food status functionality	1. open page	page should be opened	Page opening	PASS
			2. check and update food status	Status update should	Status updated	PASS

Test Case # 7

Test Case ID	Test Case Name	Test case Summary	Test Case Steps	Expected Result	Actual Result	Pass/Fail
7	Paym ent status	This test is used to test the payment status functionality	1. open page	page should be opened	Page opening is	PASS
			2. check and update paymentstatus	Status update should	Status Updated	PASS

16 Use Cases (Mobile App)

Login		
Use Case Id	A1	
Actors	Tour operator	
Feature: login in to account by entering details		
Pre-Condition	Account should already be created	
Scenarios		
Step#	Action	Response
1.	Enter username and password	
2.	Press login button	Check for valid information
Alternate Scenario	Show error if user name password incorrect	
Post-Condition	Move to next page	

Select tour		
Use Case Id	A2	
Actors	Tour operator	
Feature: Tour operator must have to select the tour of which they want to see details		
Pre-Condition	User should already login	
Scenarios		
Step#	Action	Response
1.	Select tour from list	
2.	Press submit button	Move to next page
Alternate Scenario	Show message if user didn't select tour	
Post-Condition	Home page should open	

Broad cast message		
Use Case Id	A3	
Actors	Tour operator	
Feature: Tour operator can send broadcast message as announcements		
Pre-Condition	User should select tour	
Scenarios		
Step#	Action	Response
1.	Type message	
2.	Send	Message will sent to other
Alternate Scenario	If message field is empty and user press send button show error	
Post-Condition	Notification will be received by others	

Food Status		
Use Case Id	A4	
Actors	Tour operator	
Feature: Tour operator can check and update the food status of customers		
Pre-Condition	Status is not updated	
Scenarios		
Step#	Action	Response
1.	Open food page	
2.	Check or update food status	Status will update
Alternate Scenario	NA	
Post-Condition	Food status of customers will get updated	

Room Allocation		
Use Case Id	A5	
Actors	Tour operator	
Feature: Tour operator can check the rooms details and also they check and allot rooms to customers.		
Pre-Condition	Status is not updated	
Scenarios		
Step#	Action	Response
1.	Open hotel page	
2.	Check room details	
3.	Allot rooms to customers	
Alternate Scenario	NA	
Post-Condition	Room status of customers will get updated	

Customer detail		
Use Case Id	A6	
Actors	Tour operator	
Feature: Tour operator can check the customers details		
Pre-Condition	NA	
Scenarios		
Step#	Action	Response
1.	Open customer detail page	Show customers details
2.	Check details	
Alternate Scenario	NA	
Post-Condition	NA	

Payment status		
Use Case Id	A7	
Actors	Tour operator	
Feature: Tour operator can check and update payment statuses of hotel vendor, transporters and customers		
Pre-Condition	Status is not updated	
Scenarios		
Step#	Action	Response
1.	Open payment page	Give payment details
2.	Check status if payment done check the box	Update payment status
Alternate Scenario	NA	
Post-Condition	Status updated	

17 Use Cases (Web App)

Login		
Use Case Id	W1	
Actors	Tour operator, Hotel Vendor, Transportation Vendor	
Feature: Login in to account by entering details		
Pre-Condition	Account should already be created	
Scenarios		
Step#	Action	Response
1.	Enter username and password	
2.	Press login button	Check for valid information
Alternate Scenario	Show error if user name password incorrect	
Post-Condition	Move to respective portal page	

Sign up		
Use Case Id	W2	
Actors	Tour operator, Hotel Vendor and Transportation Vendor	
Feature: Tour operator, Hotel Vendor and Transportation Vendor must have to Sign up by entering their relevant and correct details in order to access their portal.		
Pre-Condition	NA	
Scenarios		
Step#	Action	Response
1.	Enter user details	
2.	Press sign up button	Deny the request if the user already exists otherwise register user.
Alternate Scenario	Show message if the user already exists	
Post-Condition	Respective Portal page should open	

Create Tour Package		
Use Case Id	W3	
Actors	Tour operator	
Feature: Tour operator will have an option to create the package.		
Pre-Condition	Tour operator should already login	
Scenarios		
Step#	Action	Response
1.	Enter tour details	
2.	Press submit button	Tour package will be created
Alternate Scenario	NA	
Post-Condition	The package will be created and displayed	

Customer Status		
Use Case Id	W4	
Actors	Tour operator	
Feature: Tour operator must have to select the customer from list of customer to see their details.		
Pre-Condition	Customers should be enrolled	
Scenarios		
Step#	Action	Response
1.	Select customer list	
2.	Press view detail button	Customer details should be display
Alternate Scenario	NA	
Post-Condition	Customer status and details will be displayed	

Book a Room		
Use Case Id	W5	
Actors	Tour operator	
Feature: Tour operator will be able to select and book a room of their choice from the list of hotel rooms on their portal.		
Pre-Condition	Rooms are available to be booked	
Scenarios		
Step#	Action	Response
1.	Select hotel room	Display Hotel room details
2.	Book room	Send confirmation request
Alternate Scenario	NA	
Post-Condition	Room will get booked	

Book a Transport		
Use Case Id	W6	
Actors	Tour operator	
Feature: Tour operator will be able to select and book a transport of their choice from the list of transports available on their portal.		
Pre-Condition	NA	
Scenarios		
Step#	Action	Response
1.	Select Transport	Display transport details
2.	Book Transport	Send confirmation request
Alternate Scenario	NA	
Post-Condition	Transport will get booked	

Collaborate Tour		
Use Case Id	W7	
Actors	Tour operator	
Feature: Tour Operator will have an option on their portal to send a request to other tour operator if they want to merge their tour with any other touroperator.		
Pre-Condition	Tour is available to merge	
Scenarios		
Step#	Action	Response
1.	Select Tour to merge	
2.	Click on send request	Send confirmation request to the other tour operator
Alternate Scenario	NA	
Post-Condition	Tour merge request will be send	

Add a Room		
Use Case Id	W8	
Actors	Hotel Vendor	
Feature: Hotel vendor will have an option to add a room on their portal which will be displayed on the Tour operator portal.		
Pre-Condition	Must be logged in as Hotel Vendor	
Scenarios		
Step#	Action	Response
1.	Select Add room	Room detail form page will display
2.	Enter room details	
	Click submit	Room will be submitted to the list of rooms
Alternate Scenario	NA	
Post-Condition	Room will be available to get booked	

Add a Transport		
Use Case Id	W9	
Actors	Transportation Vendor	
Feature: Transportation vendor will have an option to add a transport on their portal which will be displayed on the Tour operator portal.		
Pre-Condition	Must be logged in as Transportation Vendor	
Scenarios		
Step#	Action	Response
1.	Select Add Transport	Transport detail form page will display
2.	Enter transport details	
	Click submit	Transport will be submitted to the list of Transport
Alternate Scenario	NA	
Post-Condition	Transport will be available to get booked	

fyp final check

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