

CLD (Conceptual Level Design)

Travel Management System (N)

Submitted by:

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Travel Management System (N)

Introduction:

This is a travel management system. The main purpose of a travel agency is to act as an agent who offers people to travel. It works for specific cities. In this system, people can book tickets online by sitting at home, without going anywhere. People can pay online without standing in lines.

Objective:

Our objective is to offer a variety of travel services that are sure to match all the priorities of customers. We are offering a system which helps the customers in finding detail and guidance about traveling places and tickets booking on web. All the routes and stations will be well defined in this project. A customer will be able to find the place of his/her taste to plan a journey.

Problem statement:

In the current system, a customer has to go to various travel agencies to find out the details of the places to travel and book tickets. It often takes time and effort. Hardly any complete information is available and even some information requires more time. No user may find helpful information from these agencies. Which makes it very difficult for the customer to plan a journey and carry it out properly.

We are looking for developers who can make products for us.

Where people can:

- Choose their travel plans online.
- Book tickets from home.
- Pay online without standing in lines.

Proposed Solution and Motivation:

We will develop a travel management system to suit your needs, where people can book tickets and choose their travel plans without standing in lines and people will pay online without standing in lines. We will offer many types of travel locations that are sure to match all the priorities of customers. We are offering a system which helps the customers to find different traveling places, packages, and ticket booking at one system.

Scope:

The project is about the travel management system. Where an individual can book the ticket online and plan a journey according to the given travel plans. After choosing a plan from a given root, the user will pay online and enjoy the services. The available roots are:

Gujranwala to:

- Lahore.
- Islamabad.
- Faisalabad.
- Sialkot.
- Multan.
- Sargodha.

and so, went back to Gujranwala.

Do's:

A Passenger would be able to:

- Choose offered locations.
- Select the offered plan.
- Choose vehicle condition (First class, Business class, and Economy class).
- Book the ticket online after choosing the location, plan and vehicle condition.
- Pay online after choosing the location, plan and vehicle condition.
- Cancel the ticket after booking within 6 hours.
- Change the location after booking within 6 hours.

Don't:

A Passenger wouldn't be able to:

- Pay offline.
- Pay online without choosing the location, plan and vehicle condition.
- Book the ticket online without choosing the location, plan and vehicle condition.
- Book the hotel.
- Buy the food.
- Choose the location that is not offered by the system.
- Book the ticket offline.
- Cancel the booking offline.
- Replace the location offline.
- Cancel the ticket after booking after 6 hours.

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- Change the location after booking after 6 hours.

Stakeholders:

1. Passenger.
2. Manager.

Tools & Technology:

We will choose the tool from them **Wireframe**, **Justinmind**, **Balsamiq** and **Pencil**.

Requirement Specification:

Business Requirements:

According to the business requirements collected from the client, the system should be able to:

- BR-1:** Show traveling package within 10 seconds.
- BR-2:** Offer ticket booking.
- BR-3:** Allow the user to view a specific route detail within 10 seconds.
- BR-4:** Allow the user to book the tickets 6 hours before traveling.
- BR-5:** Allow the user to choose the bus service (First class, Business class, Economy class).
- BR-6:** Allow the user to Pay online within 4 hours after booking.
- BR-7:** Allow the user to change the package within 4 hours after booking.
- BR-8:** Allow the user to cancel the booking within 4 hours after booking.

User Requirements:

According to the user requirements collected from the users,

As a Passenger, I shall be able to:-

- UR-1:** Search about the route detail.
- UR-2:** Book the tickets by choosing the bus service (First class, Business class, Economy class).
- UR-3:** Pay payment online via card.
- UR-4:** Change my package after ticket booking.
- UR-5:** Cancel booking after payment.

As a Manager, I shall be able to:-

- UR-7:** Add place route to the system.
- UR-8:** Delete place route from the system.
- UR-9:** Add package to the system.
- UR-10:** Delete package from the system.
- UR-11:** Check booking status.
- UR-12:** Check payment status.

Finalize FR and NFR:

Functional Requirements:

FR-1: System should provide the facility to show traveling package.

FR-2: System should provide the facility to offer ticket booking.

FR-3: System should provide the facility to view a specific route detail.

FR-4: System should provide the facility to book the tickets.

FR-5: System should provide the facility to choose the bus service (First class, Business class, Economy class).

FR-6: System should provide the facility to pay online after booking.

FR-7: System should provide the facility to change the package after booking.

FR-8: System should provide the facility to cancel the booking after ticket booking.

FR-9: System should provide the facility to add places to the system.

FR-10: System should provide the facility to delete places from the system.

FR-11: System should provide the facility to add packages to the system.

FR-12: System should provide the facility to delete packages from the system.

FR-13: System should provide the facility to check booking status.

FR-14: System should provide the facility to check payment status.

Non-Functional Requirements:

NFR-01: System should show traveling package within 10 seconds.

NFR-02: The ticket booking icon should like.



NFR-03: System should show a specific route detail within 10 seconds.

NFR-04: The route detail icon should like.



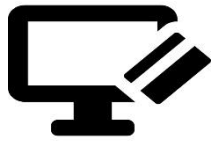
NFR-04: Passenger must book the tickets 6 hours before traveling.

NFR-05: The bus service icon should like.



NFR-06: Passenger must pay online within 4 hours after booking.

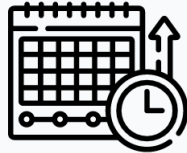
NFR-07: The pay online icon should like.



NFR-08: Passenger must book the tickets 6 hours before traveling.

NFR-09: Passenger must change the package within 4 hours after booking.

NFR-10: The change package icon should like.



NFR-11: Passenger must cancel the booking within 4 hours after booking.

NFR-12: The cancel booking icon should like.



NFR-13: The Add route place icon should like.



NFR-14: The Delete route place icon should like.



NFR-15: The Add package icon should like.



NFR-16: The Delete package place icon should like.



NFR-17: The Booking status icon should like.



NFR-18: The Payment status icon should like.



User Profiling:

Passenger:

Gender: Male and Female (60% male).

Age: 20 – 60 years (Avg. 30 year).

Location: Punjab.

Disability: No specific limitation.

Manager:

Gender: Female

Age: 30 year

Location: Gujranwala

Education: Master

Experience: 5 years

Skills: MS Office and Paint.

Work Hour: 8 hours

Disabilities: No

Income: 50,000 Rupees.

IT Knowledge: Basic

Family: Married.

Usability Requirement (UR) Matrix.

#	Ability	Gender	Age	Location	Disability	Education	Experience	Skills	Work Hour	Income	IT Knowledge	Relation
1	Passenger	M/F	20 - 60	Punjab	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	Manager	F	30	Gujranwala	No	Master	5 years	Office, Paint	8 Hours	50,000	Basic	Married

Contextual Task Analysis:

- 1. As a passenger, I want to see travelling package, so that I would be able to plan a journey.**
- 2. As a passenger, I want to see Route's detail, so that I would be able to see specific route's detail for journey.**
- 3. As a passenger, I want to choose bus service, so that I would be able to make my journey comfortable.**
- 4. As a passenger, I want to book ticket, so that I can reserve my seat.**
- 5. As a passenger, I want to pay online, so that I can start my journey.**
- 6. As a passenger, I want to change the package, so that I can rearrange my journey if my plan changed.**
- 7. As a passenger, I want to cancel booking, so that I am not charged if my plan changed.**
- 8. As a Manager, I want to add route place to the system, so that I can update the route place status.**
- 9. As a Manager, I want to delete the route place from the system, so that I can update the route place status.**
- 10. As a manager, I want to add a package to the system, so that I can update the status of the package.**
- 11. As a manager, I want to delete a traveling package, so that I can update the traveling package status.**
- 12. As a manager, I want to check booking status, so that I would be able to check any specific booking status for determine which number of passengers' reserve seat.**
- 13. As a manager, I want to check payment status, so that I would be able to check any specific payment status for determine which number of passengers had pay.**

Task Organizational Model (ToM):

ID and Name:	UC-1 request travelling package
Actor:	Passenger
Description:	The passenger will search for travelling packages using its Name or ID. The system will offer the passenger travelling packages. The passenger will choose a specific package from given travelling packages.
Preconditions:	PRE-1. Passenger request has been authenticated. PRE-2. Passenger is authorized to choose travelling packages.
Postconditions:	POST 1. Request is stored in the system. POST 2. Request is sent to the system.
Normal Flow:	1.0 Request for travelling places from the system 1. Passenger will search for travelling packages. 2. System will show the list of travelling packages if not (see 1.1.E1). 3. System will provide the passenger with option to choose Travelling packages. 4. Passenger select the travelling package. 5. Passenger enters other information to complete the request. 6. System stores the request and notify the passenger.
Alternative Flow:	N/A
Exceptions:	1.1.E1. Travelling plan is not available 1. System displays message: Package is not available. 2. System asks the passenger if he wants to request for another travelling package see (3a) or to exit(4a). 3a. Passenger asks to request for another travelling package. 3b. System starts normal flow over. 4a. Passenger asks to exit. 4b. System terminate the use case.
ID and Name:	UC-2 request route detail
Actor:	Passenger
Description:	The passenger will search for routes detail using its Name or ID. The system will offer the passenger routes detail. The passenger will choose the route from given routes.
Preconditions:	PRE-1. Passenger request has been authenticated. PRE-2. Passenger is authorized to see route detail.
Postconditions:	POST 1. Request is stored in the system. POST 2. Request is sent to the system.
Normal Flow:	2.0 Request for travelling places from the system

1. Passenger will search for route detail.
2. System will show the list of routes, if not (see 2.1.E1).
3. System will provide the passenger with option to see a specific route detail.
4. Passenger select a specific route.
5. Passenger enters other information to complete the request.
6. System stores the request and notify the passenger.

Alternative Flow: N/A

- Exceptions:** 2.1.E1. Route is not available
1. System displays message: Route is not available.
 2. System asks the passenger if he wants to request for another route detail see (3a) or to exit(4a).
 - 3a. Passenger asks to request for another route.
 - 3b. System starts normal flow over.
 - 4a. Passenger asks to exit.
 - 4b. System terminate the use case.

ID and Name: UC-3 request bus service

Actor: Passenger

Description: The passenger will search for bus service using its Name or ID.
The system will offer the passenger bus service (First class/Business class/Economy class). The passenger will choose the bus service from given bus services.

Preconditions: PRE-1. Passenger request has been authenticated.
PRE-2. Passenger is authorized to choose bus service.

Postconditions: POST 1. Request is stored in the system.
POST 2. Request is sent to the system.

Normal Flow: 3.0 Request for travelling places from the system

1. Passenger will search for bus service (First class/Business class/Economy class).
2. System will show the list of bus services.
3. System will provide the passenger with option to choose bus Service, if any service is filled (see 3.1).
4. Passenger select the bus service.
5. Passenger enters other information to complete the request.
6. System stores the request and notify the passenger.

Alternative Flow: 3.1 Request for travelling places from the system
System will ask to passenger to choose other bus service option. If All services filled (see 3.1.E1).

1. Passenger select the bus service.

	<ul style="list-style-type: none"> 2. Passenger enters other information to complete the request. 3. System stores the request and notify the passenger.
Exceptions:	<ul style="list-style-type: none"> 3.1.E1 Request for travelling places from the system. <ul style="list-style-type: none"> 1. System notifies the passenger; the service is not available. 2. System asks the passenger if he want to request another Add place (3a) or to exit (4a). 3a. Passenger asks to request another add place. 3b. System starts normal flow over. 4a. Passenger asks to exit. 4b. System terminates the use case.
ID and Name:	UC-4 request to book ticket.
Actor:	Passenger
Description:	The passenger will book ticket by using his/her name or ID, by choosing The package and Bus service. The system will check if the chooses package and Bus service exist in travel management system, then system will book ticket, or system Will notify please select package and bus service before Booking.
Preconditions:	<ul style="list-style-type: none"> PRE-1. Passenger identity has been authenticated. PRE-2. Passenger is authorized to request book ticket. PRE-3. Passenger must choose a package. PRE-4. Passenger must choose bus service.
Post conditions:	<ul style="list-style-type: none"> POST-1. Request is stored in the system. POST-2. Request was sent to the passenger. POST-3. Ticket is booked.
Normal Flow:	<ul style="list-style-type: none"> 4.0 Book the tickets from travel management system. <ul style="list-style-type: none"> 1. Passenger will search for ticket booking. 2. System will provide the passenger with option to book The ticket. 3. Passenger will book the ticket. 4. Passenger enters other information to complete the request. 5. System stores the request and notify the passenger.
Alternative Flow:	<ul style="list-style-type: none"> 4.1 Book tickets from the travel management System. <ul style="list-style-type: none"> 1.System notifies the passenger that the booking ticket Does not exists. 2. The system displays the information of route place. 4. Passenger enter other information to complete the request. 5. System stores the request and notify the manager.
Exceptions:	<ul style="list-style-type: none"> 4.1.E1 Result is not Available <ul style="list-style-type: none"> 1. System displays message: Ticket does not 2 System asks the passenger if he want to request another Result to book ticket (3a) or to exit (4a). 3a. Passenger asks to request book another ticket. 3b. System starts normal flow over.

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- 4a. Passenger asks to exit.
 - 4b. System terminates the use case.

ID and Name: UC-5 request to pay online.

Actor: Passenger

Description: The passenger will search for online payment by using its Name or ID. The System will show online payment methods to passenger. The passenger Will choose the online payment method. The system will check if chooses payment method is existing, then system will accept the payment or system Will notify choose payment method from given online payment methods.

Preconditions: PRE-1. Passenger identity has been authenticated.
PRE-2. Passenger is authorized to request pay online.
PRE-3. Passenger must book ticket.

PostConditions: POST-1. Request is stored in the system.
POST-2. Request was sent to the passenger.
POST-3. Your payment is accepted.

Normal Flow: 5.0 Request pay online from travel management system.

- 1. Passenger will search for online payment methods.
- 2. System will show the list of online payment methods.
- 3. System will provide the passenger with option to choose the online Payment method.
- 4. Passenger will choose the online payment method.
- 5. Passenger enters other information to complete the request.
- 6. System stores the request and notify the passenger.

Alternative Flow: 5.1 Request payment method from the travel management System.

- 1. System notifies the passenger that online method does Not exists (see 5.1.E1).
- 2. System gives passenger the option to view payment methods.
- 3. Passenger select payment method.
- 4. System store the request and notify the passenger.

Exceptions: 5.1.E1 Result is not Available

- 1. System displays message: not online payment.
- 2. System asks the passenger if he want to request another Result to choose payment method (3a) or to exit (4a).
 - 3a. Passenger asks to request to choose payment method.
 - 3b. System starts normal flow over.
 - 4a. Passenger asks to exit.
 - 4b. System terminates the use case.

ID and Name: UC-6 request to change the package

Actor: Passenger

Description: The passenger will search for changing package by using its Name or ID. The

	System will show traveling packages to passenger. The passenger will choose The traveling package. The system will check if chooses package is exist , then system will accept the package or system will notify choose package From given traveling packages.
Preconditions:	PRE-1. Passenger request has been authenticated. PRE-2. Passenger is authorized to change travelling plan. PRE-3. Passenger must validate booking.
PostConditions:	POST-1. Request is stored in the system. POST-2. System checked validation of booking. POST-3. Plan is changed.
Normal Flow:	6.0 Request for change travelling plan from the system 1. Passenger will search for change travelling plan. 2. System will show the lists of travelling packages. 3. System gives passenger the option to view travelling plan. 4. Passenger select the specific travelling plan. 5. Passenger enters other information to complete the request. 6. System stores the request and notify the passenger.
Alternative Flow:	1. System notifies the passenger that change plan does not exists. 2. System lists the desired travelling plan. 3. System gives passenger the option to view travelling plan. 4. Passenger select the specific travelling plan. 5. System change the payment method according selected plan. 6. Passenger enters other information to complete the request. 7. System stores the request and notify the passenger.
Exceptions:	6.1.E1. Change travelling plan 1. System displays message: Not change travelling plan. 2. System asks the passenger if he wants to change travelling plan (3a) or to exit (4a). 3a. Passenger asks to request for change travelling plan. 3b. System starts normal flow over. 4a. Passenger asks to exit. 4b. System terminate the use case.
ID and Name:	UC-7 request to cancel the booking
Actor:	Passenger
Description:	The passenger will search for cancel the booking by using its Name or ID. The system will give the option of cancel the booking to passenger. The passenger will cancel the booking. The system will accept the Request and notify the passenger.
Preconditions:	PRE-1. Passenger request has been authenticated. PRE-2. Passenger is authorized to cancel the booking. PRE-3. Passenger must validate booking.
Postconditions:	POST-1. Request is stored in the system.

	<p>POST-2. System checked validation of booking.</p> <p>POST-3. Ticket is cancelled.</p>
Normal Flow:	<p>7.0 Request for cancel the booking from the system</p> <ol style="list-style-type: none"> 1. Passenger request for cancel the booking. 2. System gives passenger the option to cancel the Booking. 3. Passenger will cancel the booking. 4. System stores the request and notify the passenger. 5. After cancel booking system automatically refund Ticket charges.
Alternative Flow:	<ol style="list-style-type: none"> 1. System notifies the passenger that cancel booking Already exists. 2. System displays the option to cancel the booking. 3. Passenger cancel the booking. 4. System stores the request and notify the passenger. 5. After cancel booking system automatically refund Ticket charges.
Exceptions:	<p>7.1.E1. Cancel the booking</p> <ol style="list-style-type: none"> 1. System displays message: booking did not cancel. 2. System asks the passenger if he wants to cancel the booking (3a) or to exit (4a). 3a. Passenger asks to request for cancel the booking. 3b. System starts normal flow over. 4a. Passenger asks to exit. 4b. System terminate the use case.
ID and Name:	UC-8 request Add Place.
Actor:	Manager
Description:	<p>The manager will add a route place using his/her Name or ID, Including location, distance, and a few details about the place. The system will check whether the route place already exists in the system or not, if the route place does not exist in the system then the system will add this route place to the system otherwise, it will notify that route place already exists.</p>
Preconditions:	<p>PRE-1. Manager identity has been authenticated.</p> <p>PRE-2. Manager is authorized to request Add Place.</p> <p>PRE-3. Travel Management System database is online.</p>
Post conditions:	<p>POST-1. Request is stored in the system.</p> <p>POST-2. The request was sent to the system.</p> <p>POST-3. Route place added to the system.</p>
Normal Flow:	<p>8.0 Request add place from manager.</p> <ol style="list-style-type: none"> 1. The manager adds information of the specific route place. 2. The system check for the same route place in the database of Travel management system, if any (see 8.1).

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3. Manager enter other information to complete the request.
 4. System stores the request and notify the manager.

Alternative Flow:8.1 Request add place from manager.

1. System notifies the manager that the route place information already exists (see 8.1.E1).
2. The system displays the information of that route place.
3. Manager adds information of that route place.
4. Manager enter other information to complete the request.
5. System stores the request and notify the manager.

Exceptions: 8.1.E1 Result is not Available

1. System displays message: Not online database.
2. System asks the manager if he want to request another Add place (3a) or to exit (4a).
 - 3a. Manager asks to request another add place.
 - 3b. System starts normal flow over.
 - 4a. Manager asks to exit.
 - 4b. System terminates the use case.

ID and Name: UC-9 request Delete Place.

Actor: Manager

Description: The manager will delete a route place using his/her Name or ID, By choosing the place from the list. The system will check if the chooses Route place exist in the database of travel management system, then system Will delete that route place, or system will notify that route place is not found.

Preconditions: PRE-1. Manager identity has been authenticated.
PRE-2. Manager is authorized to request Add Place.
PRE-3. Travel Management System database is online.

Post conditions: POST-1. Request is stored in the system.
POST-2. The request was sent to the system.
POST-3. Route place deletes from the system.

Normal Flow: 10.0 Request delete place from manager.

1. The manager delete information of the specific route place.
2. The system check for the route place in the database of Travel management system, if not (see 10.1).
3. Manager enter other information to complete the request.
4. System stores the request and notify the manager.

Alternative Flow:10.1 Request add place from manager.

1. System notifies the manager that the route place information does not exists (see 10.1.E1).
2. The system displays the information of others route place.
3. Manager delete information of that route place.
4. Manager enter other information to complete the request.
5. System stores the request and notify the manager.

Exceptions: 10.1.E1 Result is not Available

1. System displays message: Not online database.
2. System asks the manager if he want to request another delete place (3a) or to exit (4a).

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- 3a. Manager asks to request another delete place.
 - 3b. System starts normal flow over.
 - 4a. Manager asks to exit.
 - 4b. System terminates the use case.

ID and Name: UC-10 request Add Package.

Actor: Manager

Description: The manager will add a package using his/her Name or ID, Including route place detail, duration of package, price, and few details about the package. The system will check whether the package already exists in the system or not, if the package does not exist in the system then the system will add this package to the system otherwise, it will notify that package already exists.

Preconditions: PRE-1. Manager identity has been authenticated.
PRE-2. Manager is authorized to request Add Place.
PRE-3. Travel Management System database is online.

Post conditions: POST-1. Request is stored in the system.
POST-2. The request was sent to the system.
POST-3. Package added to the system.

Normal Flow: 11.0 Request add package from manager.

- 1. The manager adds information of the specific package.
- 2. The system check for the same package in the database of Travel management system, if any (see 11.1).
- 3. Manager enter other information to complete the request.
- 4. System stores the request and notify the manager.

Alternative Flow: 11.1 Request add package from manager.

- 1. System notifies the manager that the package information already exists (see 11.1.E1).
- 2. The system displays the information of that package.
- 3. Manager adds information of that package.
- 4. Manager enter other information to complete the request.
- 5. System stores the request and notify the manager.

Exceptions: 11.1.E1 Result is not Available

- 1. System displays message: Not online database.
- 2. System asks the manager if he want to request another Add package (3a) or to exit (4a).
 - 3a. Manager asks to request another add package.
 - 3b. System starts normal flow over.
 - 4a. Manager asks to exit.
 - 4b. System terminates the use case.

ID and Name: UC-11 Request delete package

Actor: Manager

Description: The manager will delete a package using his/her Name or ID,

	By choosing the package from the list. The system will check if the chooses package exist in the database of travel management system, then system will delete that package, or system will notify that package is not found.
Preconditions:	<p>PRE-1. Manager identity has been authenticated.</p> <p>PRE-2. Manager is authorized to request delete package.</p> <p>PRE-3. Travel Management System database is online.</p>
Post conditions:	<p>POST-1. Request is stored in the system.</p> <p>POST-2. The request was sent to the system.</p> <p>POST-3. Package deletes from the system.</p>
Normal Flow:	<p>11.0 Request for delete packages from the system.</p> <ol style="list-style-type: none"> 1. Manager will search to find the travelling packages. 2. System will show the fended traveling packages. 3. Manager select the specific travelling package. 4. Package delete form the system.
Alternative Flow:	<p>11.1 Request for travelling places from the system.</p> <ol style="list-style-type: none"> 1. System notifies the manager that travelling package is not available see 11.1.E1. 2. System again displays the travelling packages list. 3. Passenger choose package from the list to delete the package. 4. System stores the request and notify the passenger.
Exceptions:	<p>11.1.E1. Travelling package is not available.</p> <ol style="list-style-type: none"> 1. System displays message: result not found. 2. System asks the manager if he wants to request for another travelling package see (3a) or to exit (4a). 3a. Manager asks to request for another travelling package. 3b. System starts normal flow over. 4a. Manager asks to exit. 4b. System terminate the use case.
ID and Name:	UC-12 request to check booking status
Actor:	Manager
Description:	The manager can check the number of tickets who had been booked.
Preconditions:	<p>PRE-1. System must check validate the tickets are booked or not.</p> <p>PRE-2. Manager identity has been authenticated.</p> <p>PRE-3. Manager is authorized to request booking status.</p> <p>PRE-4. Travel Management System database is online.</p>
Postconditions:	<p>POST 1. System shows the list of booked tickets.</p> <p>POST-2. Request is stored in the system.</p> <p>POST-3. The request was sent to the system.</p>
Normal Flow:	<p>12.0 Request for check booking status in the system</p> <ol style="list-style-type: none"> 1. Manager will request for check booking status. 2. System will categories the booking with respect the routes.

	3. System will provide the option to manager to see a specific passenger's detail. 4. System will show the details of the passengers.
Alternative Flow:	12.1 Request for check booking status in the system 1. System will notify the manager that there is not any booked ticket. (12.1.E1). 2. System display routes detail. 3. Passenger choose the route from list to complete the request. 4. System stores the request and notify the passenger.
Exceptions:	12.1.E1. Tickets are not booked. 1. System displays the message: not any booked ticket yet. 2. System asks the manager if he wants to check Booking status then see (3a) or to exit(4a). 3a. Manager asks to check booking status. 3b. System starts normal flow over. 4a. Manager asks to exit. 4b. System terminate the use case.
ID and Name:	UC-13 Request to check payment status
Actor:	Manager
Description:	Manager will able to check the payment of any booked ticket.
Preconditions:	PRE-1. Manager identity has been authenticated. PRE-2. Manager is authorized to request payment status. PRE-3. System will validate the payment status.
Post conditions:	POST 1. System shows all these passenger's details those had been pay already.
Normal Flow:	13.0 Request to check payment status in the system 1. Manager will request to check payment status. 2. System will show the list of passengers who are pay already. 3. Manager will able to check specific information of a passenger. 4. System stores the request and notify the passenger.
Alternative Flow:	13.0 Request to check payment status in the system 1. System will notify the manager that there are not any payment (13.1.E1).
Exceptions:	13.1.E1. Tickets are not booked. 1. System displays the message: not any payment yet. 2. System asks the manager if he wants to check the payment status then see (3a) or to exit (4a). 3a. Manager asks to check payment status. 3b. System starts normal flow over. 4a. Manager asks to exit. 4b. System terminate the use case.

CLD (Conceptual Level Design)

UC-1: Choose Traveling Package (Hamza Aslam)

Normal Flow:

Travelling Package

Travelling Packages
Gujranwala to Lahore
Gujranwala to Islamabad
Gujranwala to Multan
Gujranwala to Faisalabad
Gujranwala to Sialkot
Gujranwala to Sarfodha

Travelling Package

Travelling Package

Qujranwala to Lahore

Qujranwala to Islamabad

Qujranwala to Multan

Qujranwala to Fasilabad

Qujranwala to Sialkot

Qujranwala to Sargodha

Do you want to choose?

Yes

No

Choose

Cancel

Travelling Package

Travelling Package



Qujranwala to Lahore

Qujranwala to Islamabad

Qujranwala to Multan

Qujranwala to Faisalabad

Qujranwala to Sialkot

Qujranwala to Sargodha

Package has been choosed

ok

Choose

Cancel

Alternative:

Travelling Package

Travelling Package ▼

Cuizranwala to Lahore

Cuizranwala to Islamabad

Cuizranwala to Multan

Cuizranwala to Fasilabad

Cuizranwala to Sialkot

Cuizranwala to SarGodha

Package is not available all seats
are already booked.

Want to choose from others?

Continue

Exit

Choose

Cancel

Exception:

Travelling Package

Travelling Package



Cuwaranwala to Lahore

Cuwaranwala to Islamabad

Cuwaranwala to Multan

Cuwaranwala to Fasilabad

Cuwaranwala to Sialkot

Cuwaranwala to Sar Godha

Travelling package is not available.

ok

ok

Cancel

UC-2: Route Detail (Hamza Aslam)

Normal Flow:

Route Detail

Route Detail

Route 1

Route 2

Route 3

Route 4

Route 5

Route 6

Ok

Cancel

Route Detail

Route Detail
Route 1
Route 2
Route 3
Route 4
Route 5
Route 6

Do you want to see route Detail?

Yes

No

OK

Cancel

Route Detail

Route Detail

Route 1

Route 2

Route 3

Route 4

Route 5

Cuijranwala to SarGodha

Information is displayed..

ok

ok

Cancel

Exception:

Route Detail

Route Detail
Route 1
Route 2
Route 3
Route 4
Route 5
Chisranwala to SarGodha

Route Detail is not available.

OK

ok Cancel

UC-3: Bus Service (Hamza Aslam)

Normal Flow:

Bus Service

Bus Service ▼

First class

Business class

Economy class

Choose

Cancel

Bus Service

Bus Service

▼

First class

Business class

Economy class

Do you want to choose
Bus Service?

Yes

No

Choose

Cancel

Bus Service

Bus Service

▼

First class

Business class

Economy class

Bus Service has been choosed.

ok

ok

Cancel

Exception:

Bus Service

Bus Service

First class

Business class

Economy class

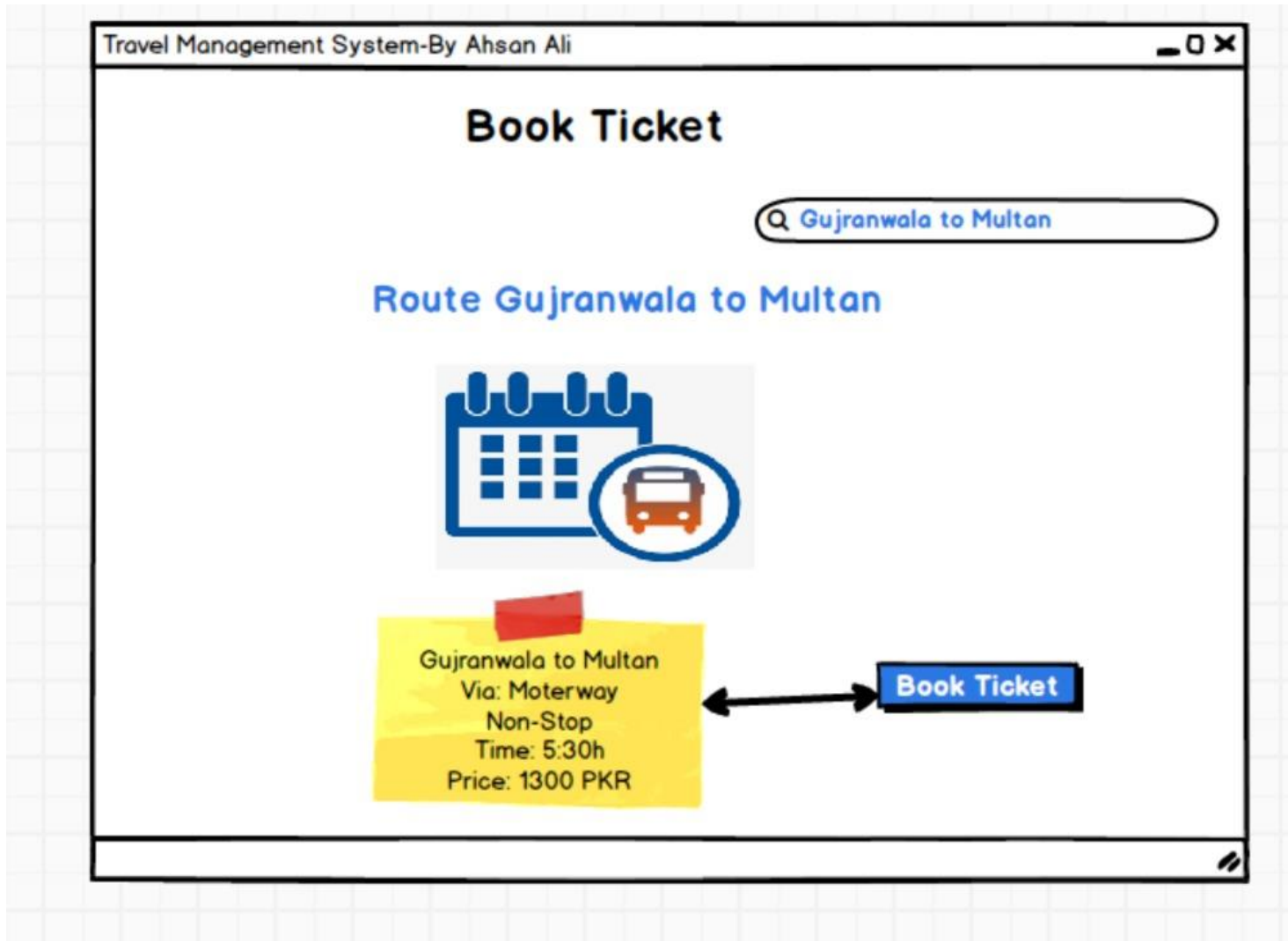
Bus Service is not available.

ok

ok Cancel

UC-4: Book Ticket (Hamza Aslam)

Normal Flow:



Book Ticket

Name:

CNIC:

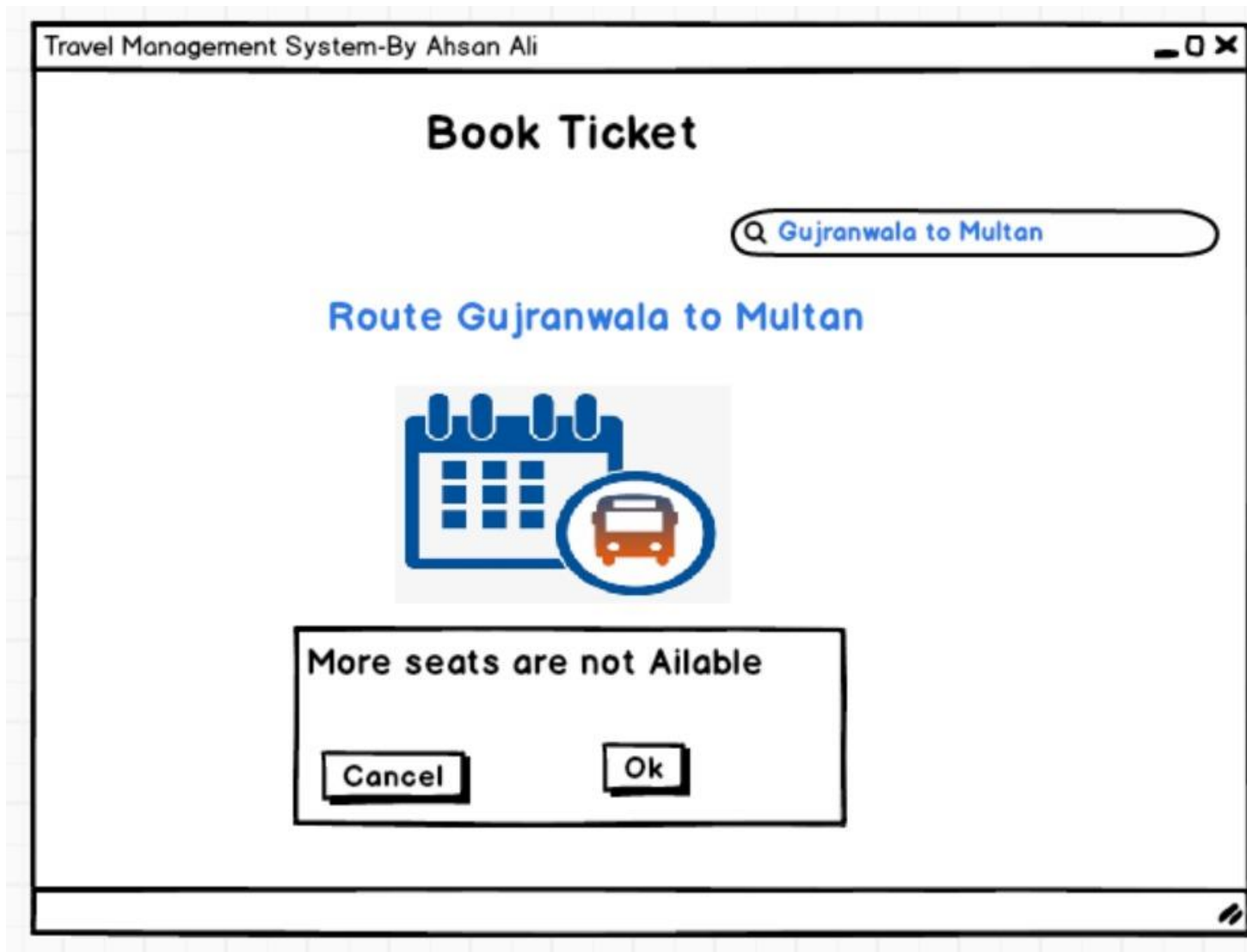
Contact No:

Email:

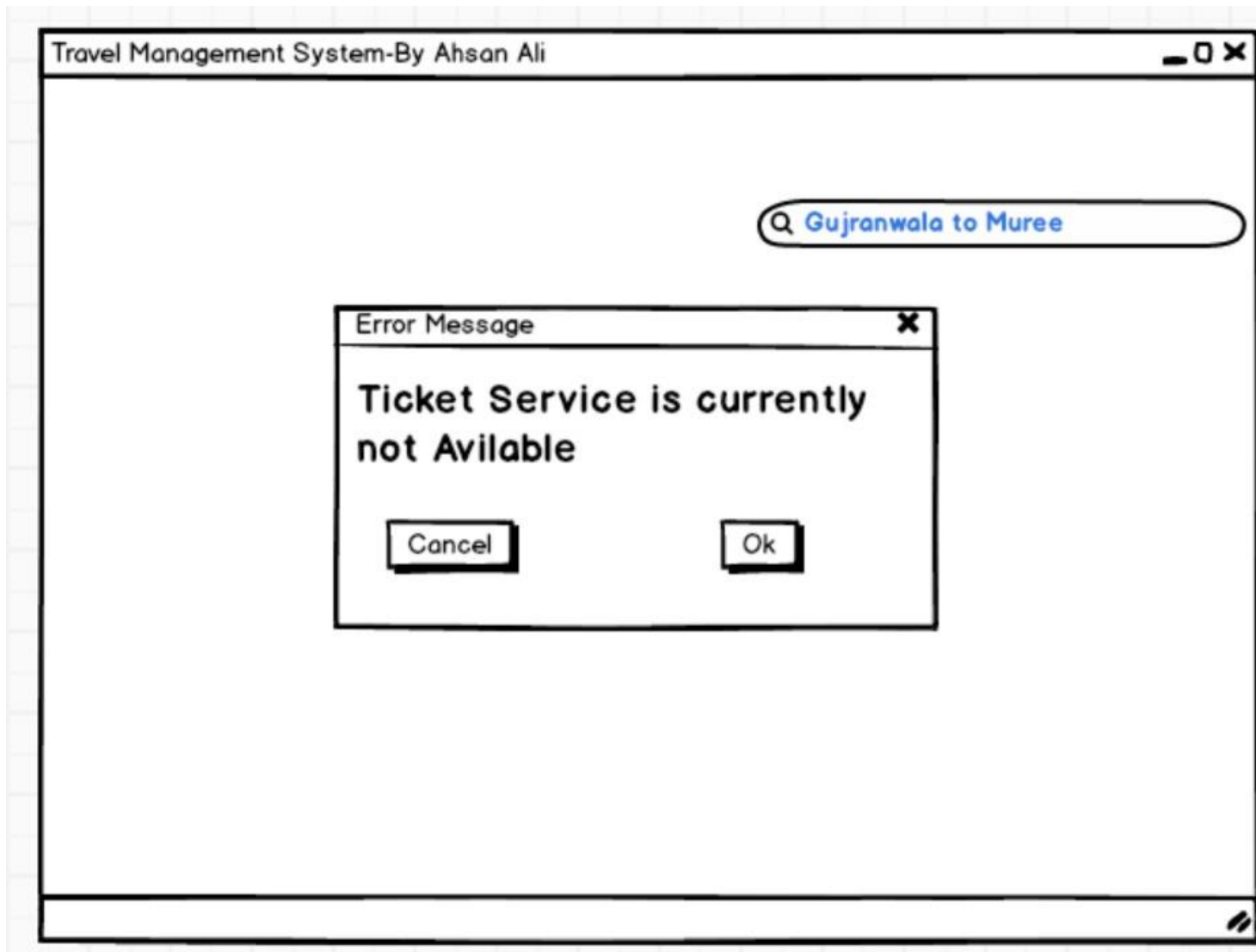
Your Ticket is
Booked Successfully

Book Ticket

Alternative:



Exception:



UC-5: Pay Online (Hamza Aslam)

Normal Flow:

The screenshot shows a web browser window with the title "Travel Management System-By Ahsan Ali". The main heading of the page is "Pay Online". On the right side, there is a search bar with a magnifying glass icon and the text "Payment Method". Below the heading, there are two radio button options: "By Debit card" (which is selected) and "By Paypal". Under the "By Debit card" option, there are two input fields: "Enter Your Debit Card Number" and "Enter Expiry Date:". A blue "Done" button is located at the bottom right of the form area.

Travel Management System-By Ahsan Ali

Pay Online

Q Payment Method

☒ By Debit card ☐ By Paypal

Enter Your Debit Card Number

Enter Expiry Date:

Done

Pay Online

Q Payment Method



By Debit card



By Paypal

Enter Your Debit Card Number

Enter Expiry Date:

Your payment Status
is valid and Done
Successfully

Done

Alternative:

Travel Management System-By Ahsan Ali

Pay Online

Payment Method

☐ By Debit card

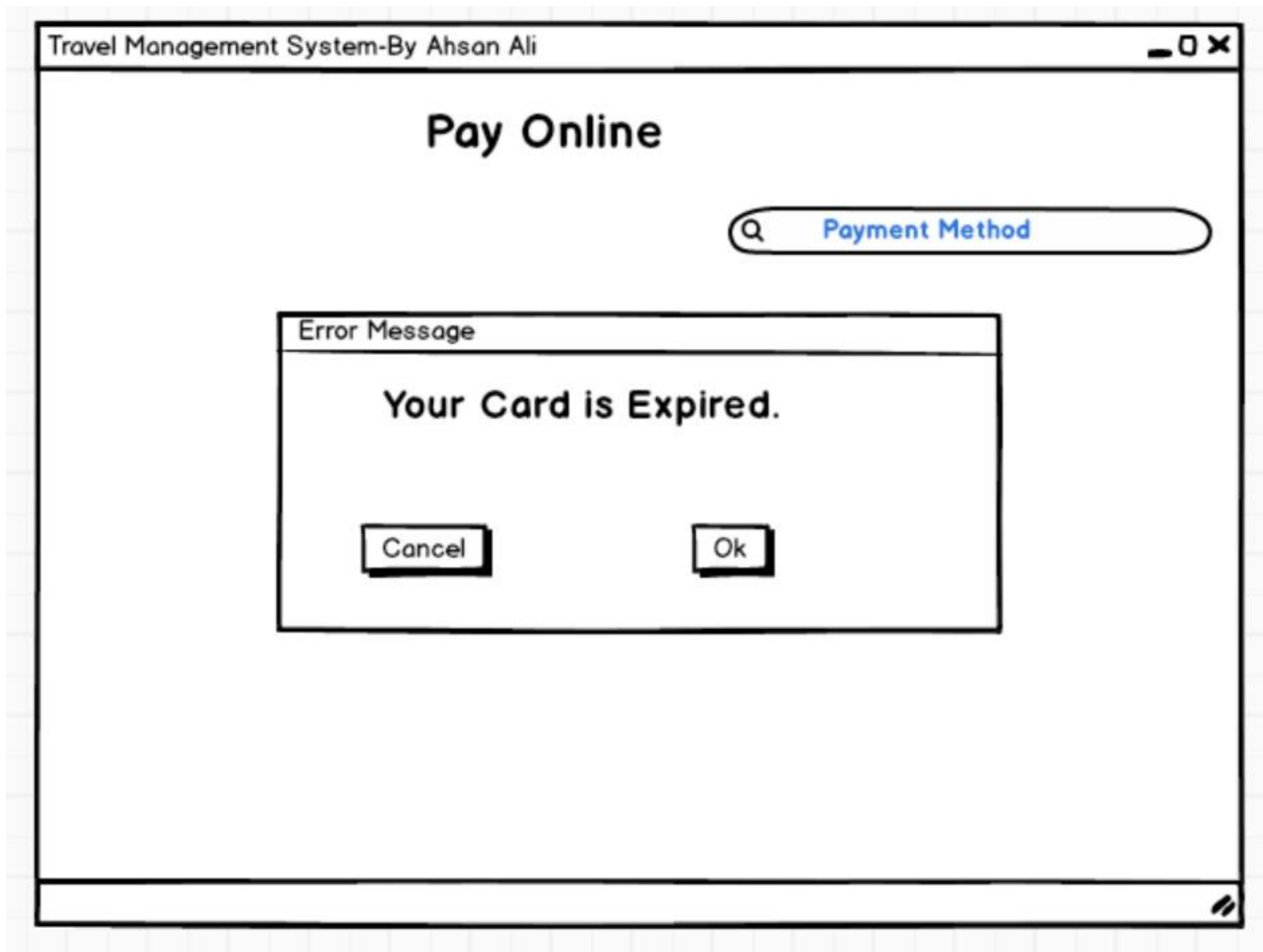
☐ By Paypal

Enter Your Debit Card Number

Card No is not Valid

Cancel Ok

Exception:



UC-6: Change Package (Hamza Aslam)

Normal Flow:

Travel Management System-By Ahsan Ali

Change Package

Q list of packages

Gujranwala ↔ Lahore

Gujranwala ↔ Multan

Gujranwala ↔ Fasilabad

Gujranwala ↔ Islamabad

Gujranwala ↔ Sialkot

Gujranwala ↔ Sargoda

Gujranwala → Islamabad

Cancel

Select

Done

Change Package

Q list of packages

Gujranwala ↔ Lahore
Gujranwala ↔ Multan
Gujranwala ↔ Fasilabad
Gujranwala ↔ Islamabad
Gujranwala ↔ Sialkot
Gujranwala ↔ Sargoda

Gujranwala → Islamabad

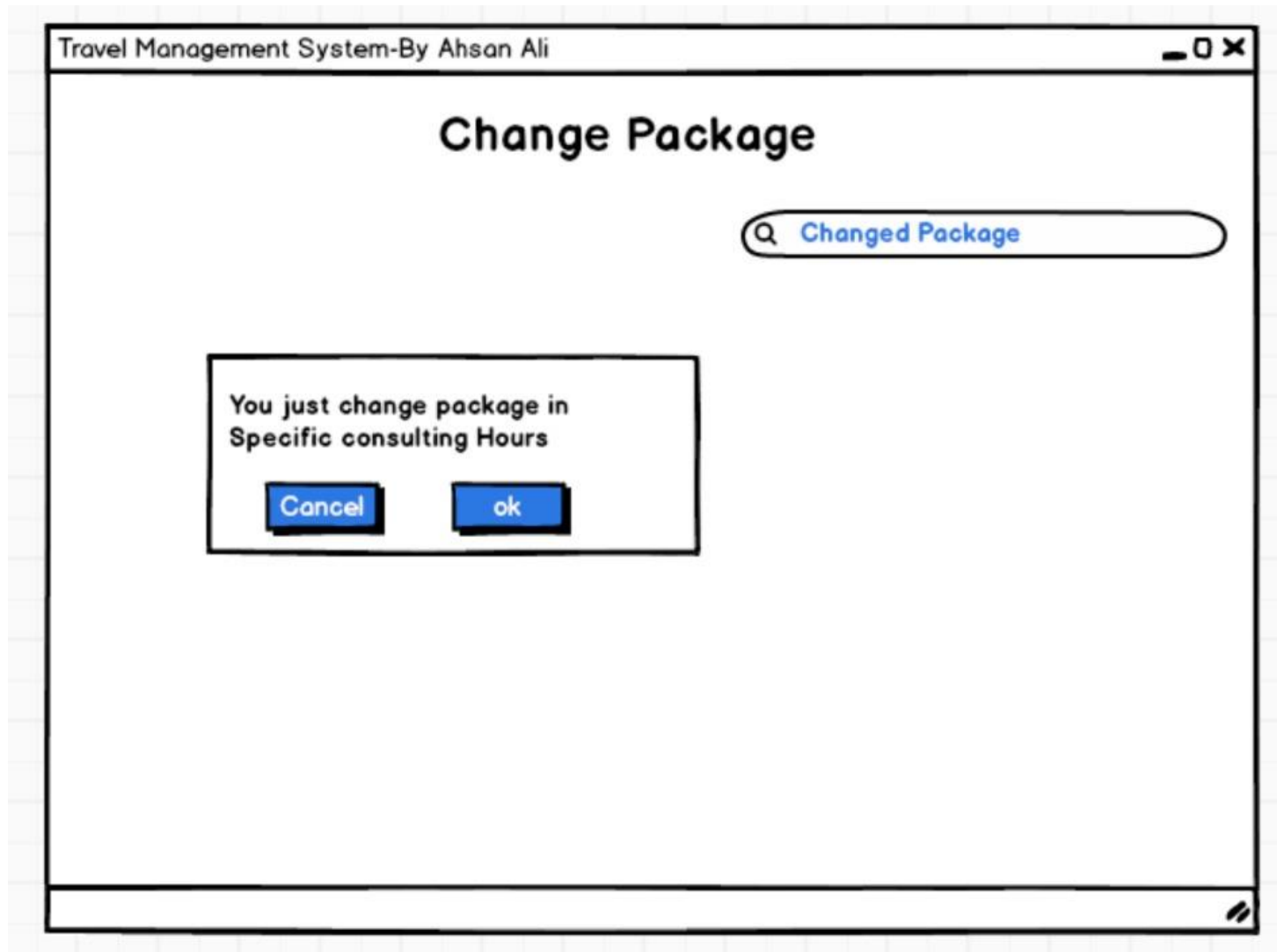
Cancel

Select

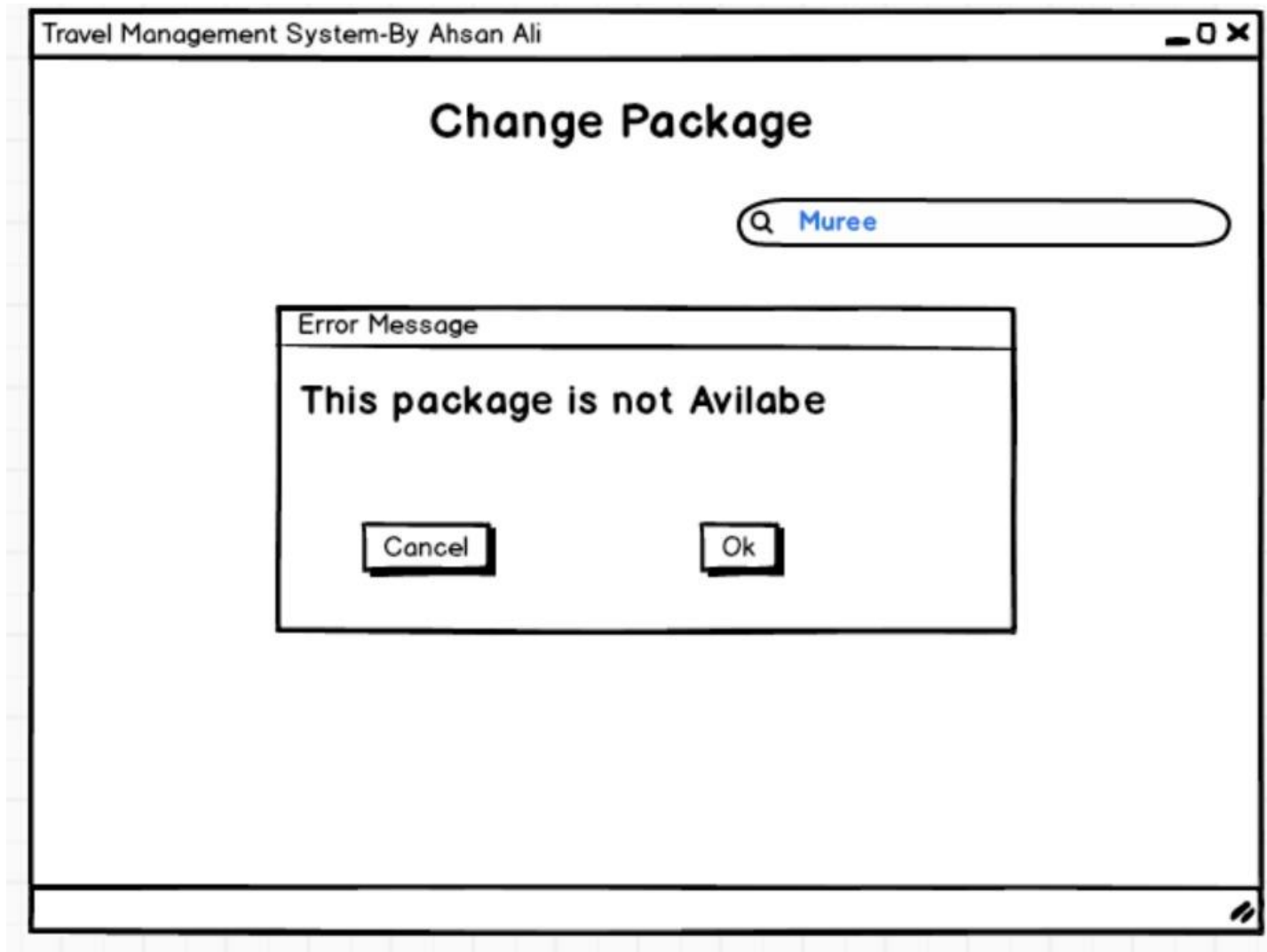
Your Package is
Changed successfully

Done

Alternative:



Exception:



UC-7: Cancel Booking (Hamza Aslam)

Normal Flow:

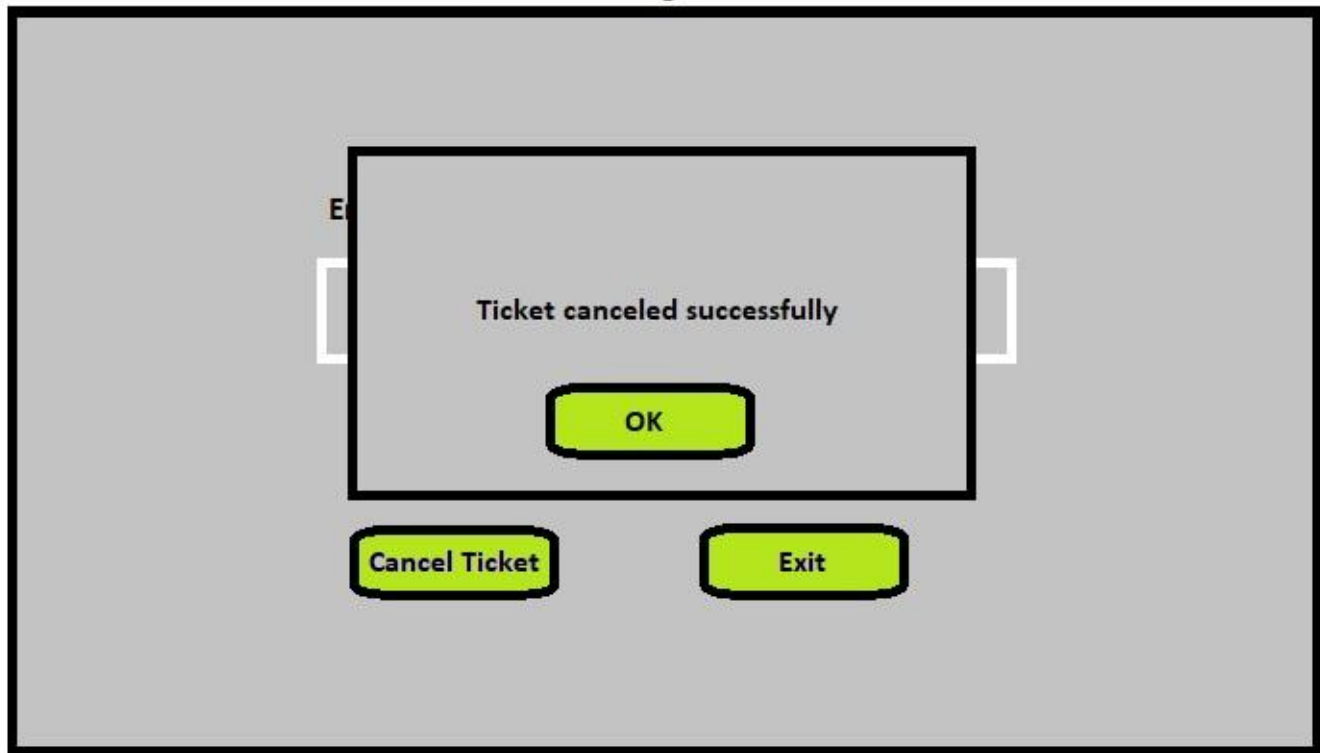
Cancel Booking

Enter ticket Id:

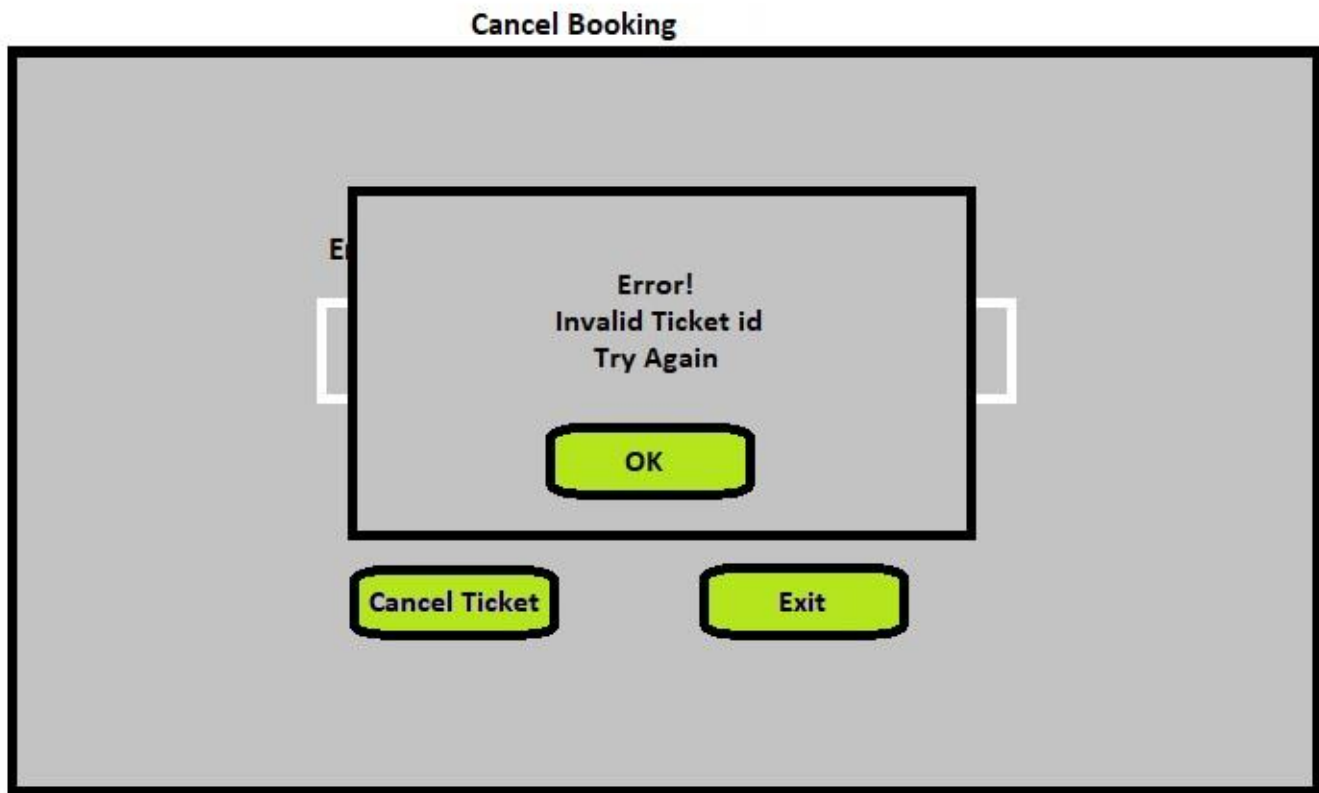
Cancel Ticket

Exit

Cancel Booking



Alternative:



UC-8: Add Route Place (Hamza Aslam)

Normal Flow:

Add Route Place

Route Place List

	▼
Gujranwala to Lahore	
Gujranwala to Islamabad	
Gujranwala to Faisalabad	
Gujranwala to Sialkot	
Gujranwala to Multan	
Gujranwala to Sargodha	

Add

Cancel

Add Route Place

Route Place List	
	Gujranwala to Lahore
	Gujranwala to Islamabad
	Gujranwala to Faisalabad
	Gujranwala to Sialkot
	Gujranwala to Multan
	Gujranwala to Sargodha

Add

Name of Route:

Distance:

Additional Information:

Add **Cancel**

Add Route Place

Route Place List

Gujranwala to Lahore
Gujranwala to Islamabad
Gujranwala to Faisalabad
Gujranwala to Sialkot
Gujranwala to Multan
Gujranwala to Sargodha

Route Place Added Successfully

OK

Add

Cancel

Alternative:

Add Route Place

Route Place List

Gujranwala to Lahore
Gujranwala to Islamabad
Gujranwala to Faisalabad
Gujranwala to Sialkot
Gujranwala to Multan
Gujranwala to Sargodha

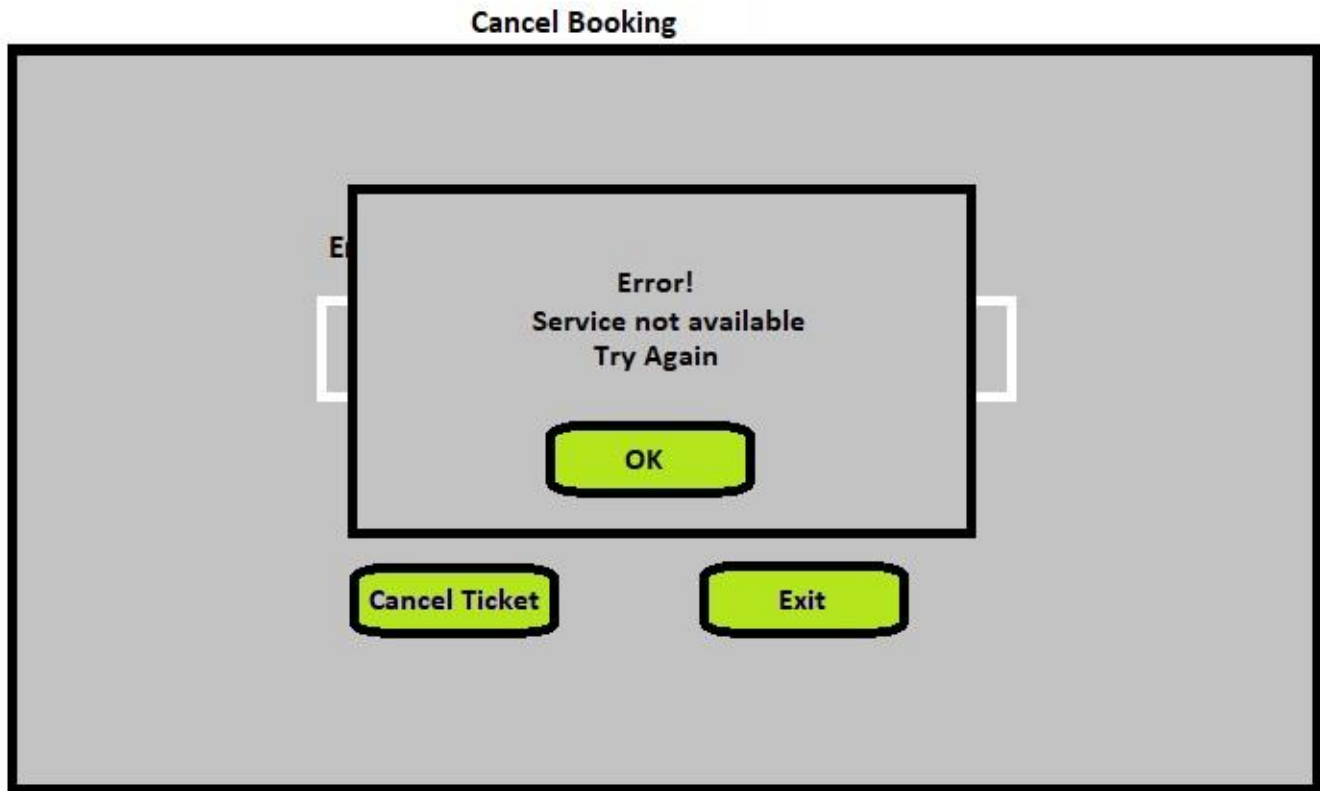
Route Place already exists and cannot be added

OK

Add

Cancel

Exception:



UC-9: Delete Route Place (Hamza Aslam)

Normal Flow:

Delete Route Place

Select any route place from the list

Gujranwala to Lahore
Gujranwala to Islamabad
Gujranwala to Faisalabad
Gujranwala to Sialkot
Gujranwala to Multan
Gujranwala to Sargodha

Delete

Cancel

Delete Route Place

Select any route place from the list

Guiranwala to Lahore

Route Place 2 will be permanently deleted.
Do you really want to continue?

Yes No

Delete

Cancel

Delete Route Place

Select any route place from the list

Guiranjwala to Lahore	
G	
G	
G	
G	
G	
G	

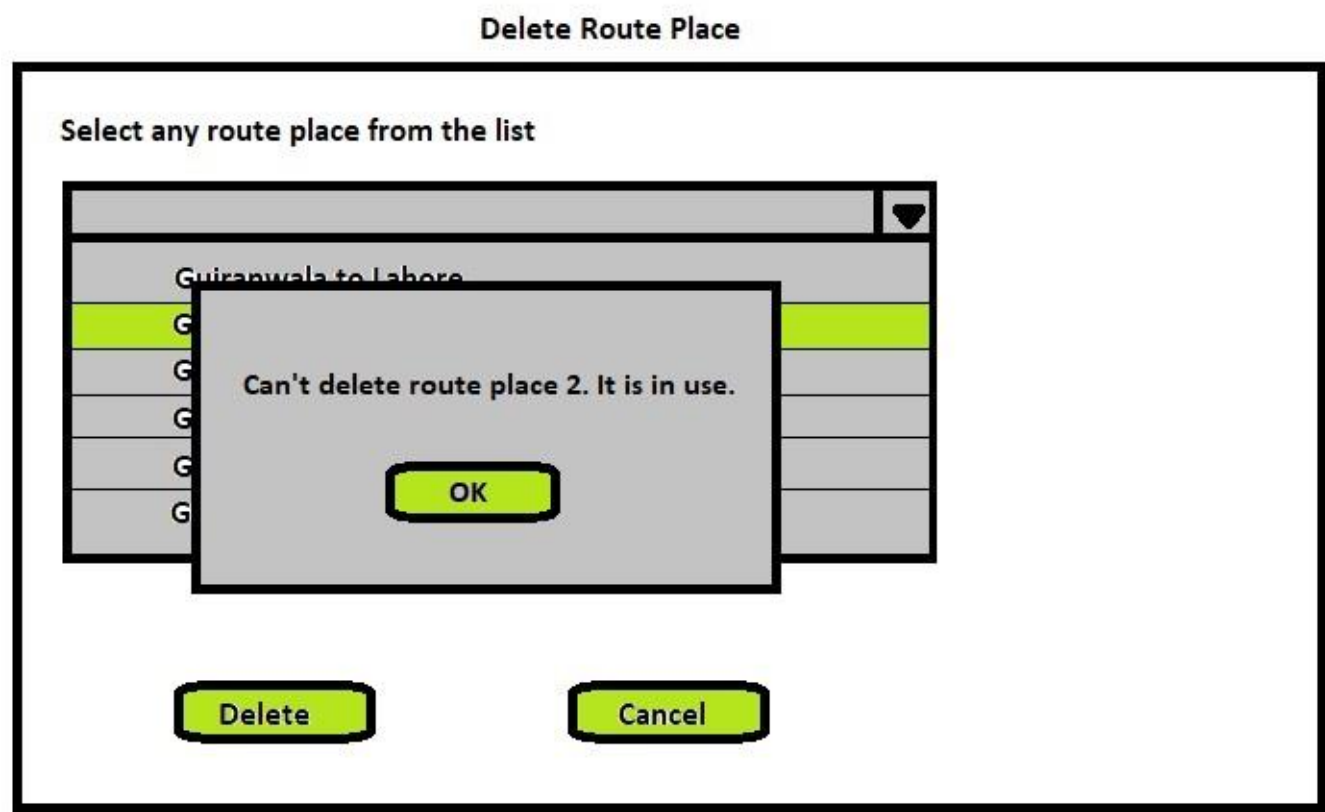
Route Place 2 has been permanently deleted

OK

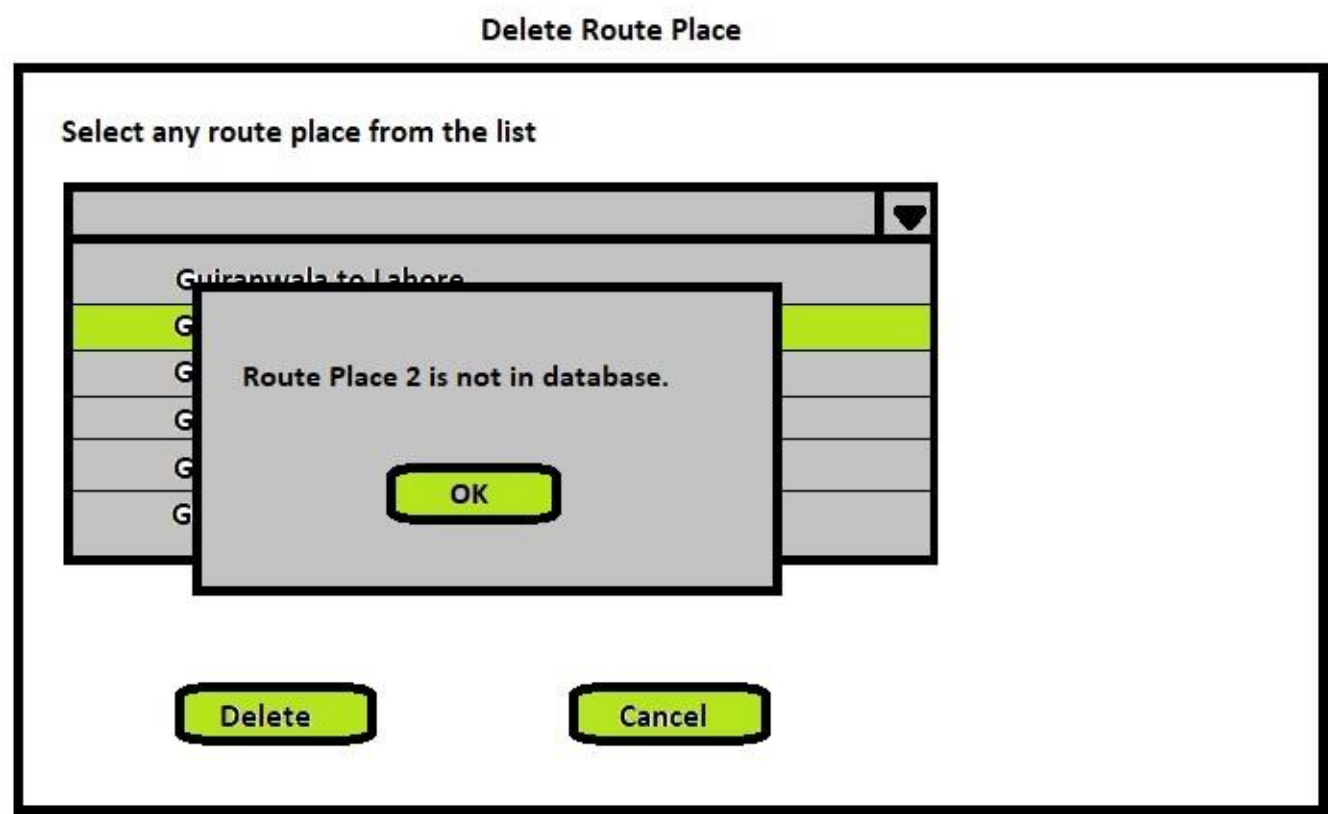
Delete

Cancel

Alternative:



Exception:



UC-10: Add Package (Hamza Aslam)

Normal Flow:

Travel Managment System

Dash Board

Change Packages

Change Routes

Check Booking

Check Payment

Add or Delete any package

Edit details

Lahore

Edit details

Islamabad

Edit details

Fasilabad

Edit details

Sialkot

Edit details

Multan

Edit details

Sargodha

Click to add package

done

Add or delete any package

Lahore

Gujranwala to Lahore
Via: motorway
price: 200

Do you want to delete package?

Delete

No

Islamabad

Gujranwala to Islamabad
Via: GT road
price: 500

Do you want to delete package?

Delete

No

Fasilabad

Gujranwala to Fasilabad
Via: motorway
price: 400

Do you want to delete package?

Delete

No

Sialkot

Gujranwala to Sialkot
Via: Sialkot Road
price: 200

Do you want to delete package?

Delete

No

Multan

Gujranwala to Multan
Via: motorway
price: 800

Do you want to delete package?

delete

No

Sourgdha

Gujranwala to Sourgdha
Via: GT Road
price: 600

Do you want to delete package?

Delete

No

Name package

Gujranwala to
Via:
price:

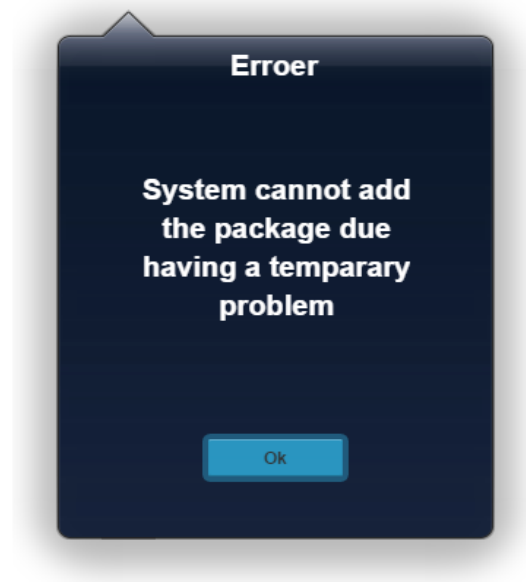
Do you want to add this package?

Yes

No

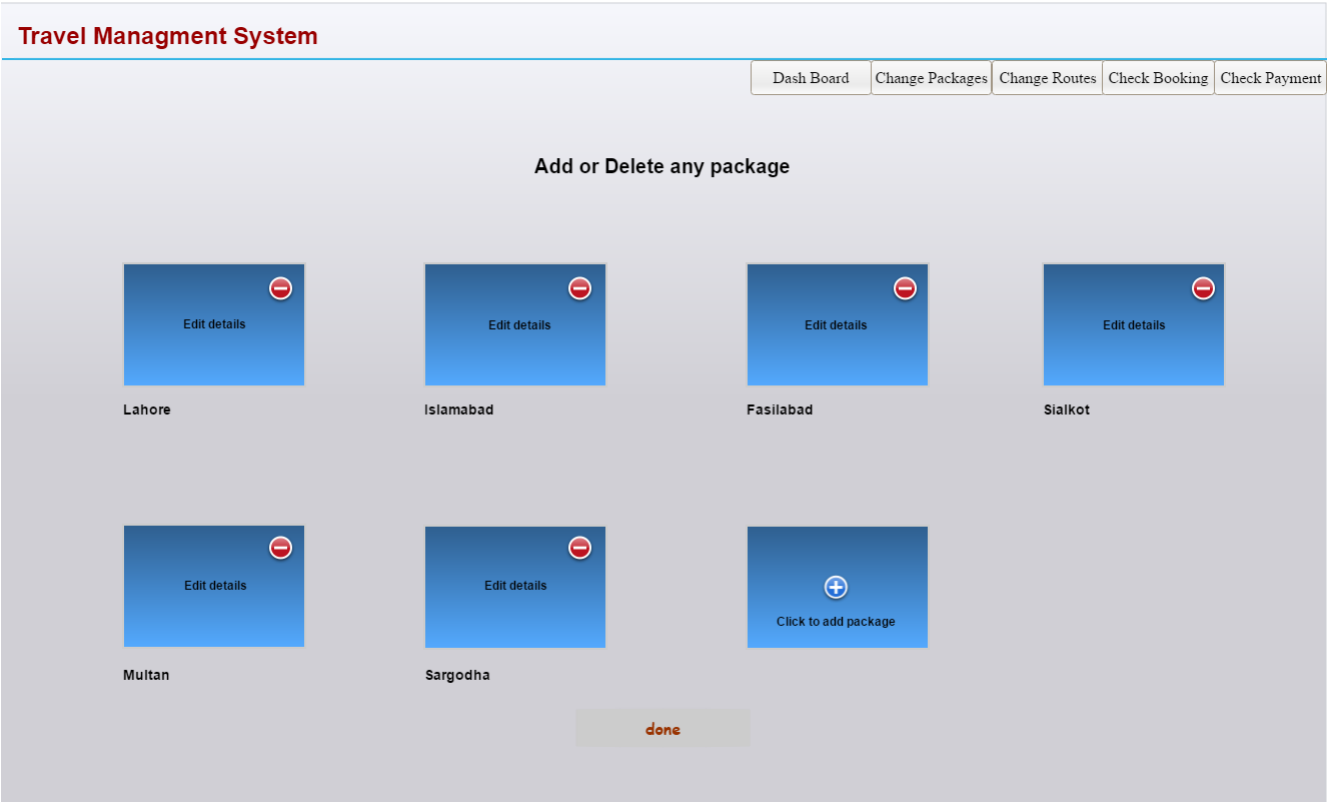
Add Done

Exception:

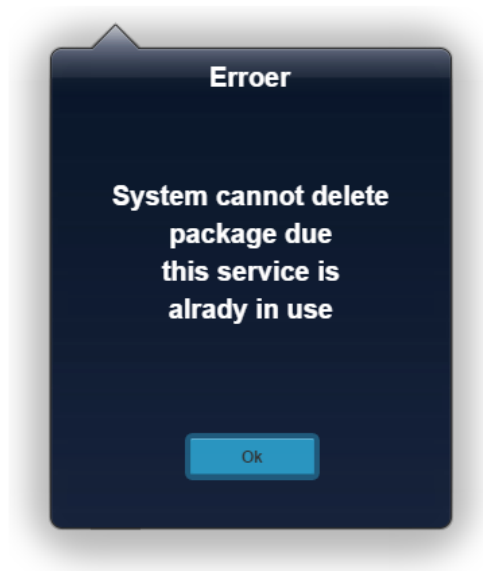


UC-11: Delete Package (Hamza Aslam)

Normal Flow:



Exception:



UC-12: Check Booking Status (Hamza Aslam)

Normal Flow:

Travel Managment System

Dash Board

Change Packages

Change Routes

Check Booking

Check Payment

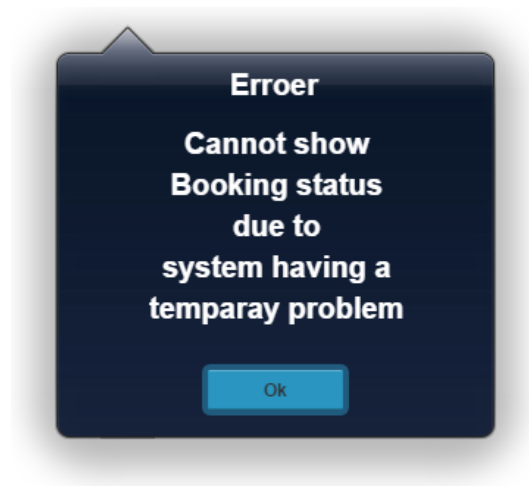
Booking Status

Lahore	Islamabad	Fasilabad	Sialkot	Multan	Sargohda
Hamza: 14	Hamza: 14	Hamza: 14	Hamza: 14	Hamza: 14	Hamza: 14
Talha Aftab: 15	Talha Aftab: 15	Talha Aftab: 15	Talha Aftab: 15	Talha Aftab: 15	Talha Aftab: 15
Kinza Iman: 16	Kinza Iman: 16	Kinza Iman: 16	Kinza Iman: 16	Kinza Iman: 16	Kinza Iman: 16
AhsanAli: 17	AhsanAli: 17	AhsanAli: 17	AhsanAli: 17	AhsanAli: 17	AhsanAli: 17
Tehseen: 18	Tehseen: 18	Tehseen: 18	Tehseen: 18	Tehseen: 18	Tehseen: 18

They all had reseved seats

OK

Exception:



UC-12: Check Payment Status (Hamza Aslam)

Normal Flow:

Travel Managment System

Dash Board

Change Packages

Change Routes

Check Booking

Check Payment

Payment Status

Lahore	Islamabad	Fasilabad	Sialkot	Multan	Sargohda
Hamza	Hamza	Hamza	Hamza	Hamza	Hamza
Talha Aftab	Talha Aftab	Talha Aftab	Talha Aftab	Talha Aftab	Talha Aftab
Kinza Iman	Kinza Iman	Kinza Iman	Kinza Iman	Kinza Iman	Kinza Iman
AhsanAli	AhsanAli	AhsanAli	AhsanAli	AhsanAli	AhsanAli
Tehseen	Tehseen	Tehseen	Tehseen	Tehseen	Tehseen

They all had done his/her payment

OK

Exception:

