Domain Document

Travel Management System (N)

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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 routes or cities. In this system, people can book tickets online by sitting at home, without going anywhere. People will pay online without standing in lines.

Objectives:

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 to find different traveling places and ticket booking on the web. This project will help the customers to find the details and guidance of traveling places. 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 the travel 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.

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:

An individual would be able to:
- Choose offered Packages.
- Book the ticket online.
- Cancel the booking.
- Change the Package.
- Choose Bus Service (First class, Business class, and Economy class).
- Pay online.

Don't:

An individual wouldn't be able to:
- Pay offline.
- Book the hotel.
- Buy the food.
- Choose the Package that is not offered by the system.
- Cook the ticket offline.
- Cancel the booking offline.
- Change the Package offline.

Book ticket (Reservation)

Facts:
- Every ticket has a unique number.
- There is no sales tax on tickets.

Constraints:
- Passenger must book ticket 6 hours before the start of the journey.
- Passenger must pay online 6 hours before the start of the journey.
- Passengers must arrive at the station 30 minutes before departure.
- Passenger has to choose the bus service before booking.
- Passenger has to choose the traveling package before booking.
- Passenger must have a CNIC number.
- Passenger must have a mobile number.
- Passenger must have an address.
- Passenger must have a bank account.

Computation:
- The system will only calculate the ticket price, sales tax will not be included in this amount.

Choose Bus Service

Facts:
- Bus service will be assigned for each ticket.
- Each service/category has different chargers from the other.

Inferences:
- If the passenger does not select for bus service, he/she cannot book a ticket.

Constraints:
- Passenger must select the bus service before booking the ticket.
- Once a passenger chooses a bus service, he/she cannot change it again.

Computation:
- The system will calculate the ticket price according to the user's selected bus service.

Pay online (After booking)

Facts:
- Every ticket has a unique number.
- There is no sales tax on tickets.
- Tickets are refundable up to 6 hours before the start of the journey.

Constraints:
- Passenger must pay online (after booking) 6 hours before the start of the journey.
- Passenger must have a CNIC number.
- Passenger must have a mobile number.
- Passenger must have an address.
- Passenger must have a bank account.
- There must be a balance in the passenger's account for payment.

Inferences:
- If the passenger has a low balance than the ticket amount, then cancel the booking.

Computation:
- The system will calculate the ticket price according to the user's selected bus service and selected package.
- The system will deduct the amount of all these services from the passenger.

Change Package

Facts:
- There are no additional charges for changing the package.
- If the newly selected package is cheaper than the old one, the extra money will be transferred to the passenger's account.
- If the newly selected package is more expensive than the old one, the passenger will have to pay extra.

Constraints:
- The passenger must have selected a package before changing the package.
- Passenger must change package 6 hours before the start of the journey.
- The passenger must have chosen the bus service before changing the package.

Computation:
The system will calculate the ticket price according to the newly selected package.

Cancel the booking

Constraints:

- The passenger must cancel the booking 6 hours before the start of the journey.

Inferences:
- If the passenger cancels the booking 6 hours before the start of the journey. Then all the money will be transferred to the passenger's account.
- If the passenger cancels the booking 5 hours before or after the start of the journey. Then no money will be transferred to the passenger's account.

Computation:
- The money will be refunded if the passenger follows the 6-hour rule only.

Procedures of the organization:
- The organization will transfer money to the passenger's account if the passenger cancels the booking 6 hours before the start of the journey.

Add Route Place

Facts:
- The manager must include complete information (Distance from Grw, Name/Id … etc.) about the new route place.
- Each route place's name / ID must be unique.

Action Enablers:
- The manager can only add root place.

Delete Route Place

Constraints:
- The manager has to select one route place from the list available.

Action Enablers:
- The manager can only delete root place.

Add Package

Facts:
- The manager must include complete information (Price, Name/Id of route place, Duration… etc.) about the new package.
- Each package's name / ID must be unique.

Action Enablers:
The manager can only add root place.

Delete Package

Constraints:
- The manager has to select one package from the list available.

Action Enablers:
The manager can only delete package.