Tesla

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Problem:

To build an airline reservation system. The Airline Reservation System project is an implementation of a general Airline Ticketing website like Kayak, where the customers can search the availability of flights offered by various airlines to destined location and their prices. The features to be covered by the system are user-profiles (the user can create an account with the website), where the user can updated his/her personal details, booking history, 'Buy' and 'Cancel' option to purchase tickets and cancel already purchased tickets. The user should be able to compare the prices and filter the search results according to his travel plans such as his travel date, number of stops duration of the journey etc. The user can write reviews and rate the airlines about his experience during a journey. The user also gets points for every purchase and can also purchase tickets using the points. Any user can take a look at the reviews and check the profile of the user who has given the review.

Solution:

We plan to implement the project by creating a profile page for the user. From the home page the user can search the availability of tickets. This search query is sent to the web services and the data is fetched by using an API which returns the data either in XML or JSON. Once the data has been fetched it will be displayed in the search results page. The user can decide to check the details of the flight in the 'Details page' and 'Buy' / 'Cancel' the ticket. This information will be stored in a database

corresponding to the user profile. The user's reviews and comments about a flight experience will also stored in the database and can be viewed by other users.

List of APIs:

1. http://www.skyscanner.com
2. Http://www.expedia.com

List of pages :

1.   **Home page:** Displays the initial page and the 'Search' option for flights. The user can also log in to his/her profile.

2.   **User Profile page:** Displays his previous booking history and the points accumulated

3.   **Search Results page:** Displays the available flights between the specifies arrival and destination airports at specified dates.

4.   **Details page:** Displays the details of the selected flight with 'Buy' and 'Cancel' or 'Add' option.

5.   **Ticket Booking Page :** Displays the selected flight journey and details about layover. The user can also select the number of tickets to purchase.