

# **TRAVELING AGENCY MANAGEMENT SYSTEM**

## **CS209 – Data Structures & Algorithms**

### **Project Description:**

This project will help a Travel agency to maintain and manage data of passengers as well as employees of agency. Through this system the passenger can book or cancel ticket at any place for example sitting in home and can pay the ticket fee through online banking or cash. This project will also reduce the No of employees currently working at agency as a single Employee will manage a lot of data. It enables the passenger to create his/ her account and book ticket. The user can check available Schedule and book ticket. He/she can also cancel ticket. The user can also check his/her traveling history. This project will develop a management system for a traveling agency. This project will help a traveling agency to maintain its employee record, Passenger record, Ticket Record etc. This project will save the time of user and produce tickets and manage data quickly and efficiently.

### **Features**

This project will include many key features described below:

1. **Login based.**
2. **Passenger Account management.**
3. **Employee Record management.**
4. **Passenger Record management.**
5. **Passenger History maintenance.**
6. **Ticket Booking.**
7. **Ticket Record management.**
8. **Schedule management.**
9. **Ticket Validation.**
10. **Agency management.**
11. **Payment methods.**
12. **Different authorization to system.**
13. **Completely menu driven.**

#### 14. Passenger feedback.

### **Features description**

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#### **Login based:**

This system will be secured with login to protect it from unauthorized access. Only the Agency manager can change or reset the logins of Employees.

#### **Passenger Account management:**

Passenger can create their account. One passenger can have only one account. Once passenger created account his/her data will be saved and for next time he/she has only to login with his/her username and password and has no need to provide data and he/she can book ticket. If he/she forgets his/her login they will be asked to provide some rare information to reset their login. Passenger can have also access to update his/her data. Once passenger cancel the ticket, the passenger record for that ticket will be delete from passenger history and ticket record. The system will also stops the passenger to create multiple accounts from same CNIC.

#### **Passenger Record management:**

Through this system the agency staff employee can manage the record of Passenger. Staff person can Search, Delete and Display etc. the record of passengers. **Passenger History**

#### **management:**

This system will allow the staff person to manage the history of Passenger. He/ she can check how many times a particular passenger has travel. Staff members can also Delete, Search, Display and Sort the passenger history.

### **Employee Record management:**

This system will give access to Agency manger to modify the record of Employees. He/she has access to Add, remove, update and search the record of a employee. No other person can access the record of employees.

### **Ticket Booking:**

This system will provide user Fridley interface (not GUI) to the passenger to book his/her ticket. Once he/she created their account they have no need to enter their record for the next time when they want to book a ticket. Their credentials will be saved.

### **Ticket Record management:**

This project will also allow a staff member to maintain and manage record of booked tickets. They have no any access to remove data of ticket as ticket data is linked to passenger's history. But they can search and view the history.

### **Schedule management:**

The Staff user has access to maintain the schedule of different roots. They will have access to add, delete, update and Sort the schedule.

### **Ticket Validation.**

This system will also provide the feature to validate a ticket. The Passenger can check validation of ticket by entering Ticket ID and he/she can also check expiry date of ticket. If the ticket is expired the system will pop up a message that the particular ticket has been expired buy a new ticket please.

### **Agency management:**

This system allows the manger to modify the agency details like agency name, Email, address, contact # etc.

### **Payment methods.**

One a passenger books ticket he/she will be asked to choose payment method either to pay it through bank or any online payment method or to pay the cash. If ones want to pay the payment by cash the system will generates a receipt that he/she has to pay in a particular bank or at agency branch.

### **Different authorization to system:**

The best feature of this system will be an authorization access to different persons. For example the passenger has access to only his/her data he/she cannot access the data of other passenger or the staff person has access to Passengers record he/she cannot modify the employee record as they are also employees of agency.

### **Menu Driven:**

The system will provides the user friendly (not GUI) environment so that the staff and passenger can easily operate the system. This system has several control menus for different accesses.

### **Passenger Feedback:**

Passenger feedback will also be welcomed to improve the working of system .

**Note:** The default login is username: 88945 , password: 88945