

# BUS TRAVEL MANAGEMENT SYSTEM

## *Functional Requirements*

### **1. Maintains the information of drivers in 'Driver\_Details' table:**

- i. Members of the manager group should be able to enter, delete and retrieve details of their sub-ordinates.
- ii. Members of the driver group should only be able to retrieve their details.

### **2. Maintains the information of managers in 'Driver\_Manager\_Details' table:**

- i. Members of the manager group should only be able to retrieve their details.
- ii. Members of the administrative group should be able to enter, delete and retrieve details of a manager.

### **3. Maintains the information of buses in 'Bus\_Details' table:**

- i. Members of the driver group should only be able to retrieve the details of the buses assigned to them.
- ii. Members of the manager group should be able to assign buses to their sub-ordinates, cancel the buses already assigned to their sub-ordinates and retrieve the details of the buses assigned to their sub-ordinates.
- iii. Members of the administrative group should be able to enter, delete and retrieve details of buses.
- iv. Members of the customer group should only be able to retrieve the details of the buses for which they have made a booking or are travelling in that bus.
- v. The service employee (of garages) should be able to retrieve the details of the buses assigned to their garages.

**4. Maintains the information of passengers in 'Passenger\_Details' table:**

- i. Members of the customer group should be able to enter, retrieve and delete their details only.
- ii. Members of the administrative group should be able to retrieve, enter and delete the details of any customer.

**5. Maintains the information of journeys in 'Journey\_Details' table:**

- i. Members of the manager group should only be able to retrieve journey details of buses assigned to their sub-ordinates.
- ii. Members of the driver group should only be able to see the journey details of buses assigned to them.
- iii. The members of the customer group should be able to see the journey details of the journeys for which they have booked a ticket of or are currently in that journey.
- iv. Members of the administrative group should be able to enter, delete and retrieve journey details.
- v. The journey operators should be able to view the journey details of the journeys assigned to them.

**6. Maintains the information of routes in 'Service\_Route\_Details' table:**

- i. Members of the manager group should be able to retrieve and change the route details of the journeys that will be undertaken by their sub-ordinates.
- ii. Members of the driver group should only be able to retrieve the route details of the journeys that will be undertaken by them.
- iii. Members of the administrative group should be able to enter, delete and retrieve route details.

**7. Maintains the information of routes in 'Service\_Route\_Details' table:**

- i. Members of the manager group should be able to retrieve the details of garages assigned to the buses assigned to their sub-ordinates and should be able to change the garages assigned to these buses based on the availability of the garages.
- ii. Members of the driver group should be able to retrieve the details of the garages assigned to the buses that they are assigned to.
- iii. Members of the administrative group should be able to enter, delete and retrieve garage details.

**8. Maintains the information of bookings in Customer\_Booking\_Details' table:**

- i. Members of the customer group should be able to enter, retrieve and delete the details of the confirmed bookings that they have made but only retrieve details of bookings that they have cancelled.
- ii. Members of the manager group should only be able to retrieve the details of the bookings made for the buses that are assigned to their sub-ordinates.
- iii. Members of the driver group should only be able to see confirmed bookings made for the buses assigned to them.
- iv. Members of the administrative group should be able to enter, delete and retrieve details of bookings made.