

Use Case Name: Create new passenger account
Actor: Passenger Description: <ol style="list-style-type: none"> 1. Input user ID, name, email, password & confirm password. 2. Check User ID. (Unique). 3. Store new passenger account into the database. Exception: <ol style="list-style-type: none"> 1. Required page not found. 2. No database connection. Precondition: <ol style="list-style-type: none"> 1. URL of “Create account” hyperlink page. Post Condition: <ol style="list-style-type: none"> 1. Successful- Create user account. 2. Unsuccessful- Stay in the same page, do not create user account & show error message. 3. Exception- Stay in the same page if possible.

Use Case Name: User login to the system
Actor: User Description: <ol style="list-style-type: none"> 1. Input user ID & password. 2. Check user ID & password. (Authentication) 3. Save ID and password. (Local Storage) 4. Remember password. Exception: <ol style="list-style-type: none"> 1. Required page not found. 2. No database connection. Precondition: <ol style="list-style-type: none"> 1. URL of “Log In” hyperlink page. Post Condition: <ol style="list-style-type: none"> 1. Successful- Log in the user into the system. 2. Unsuccessful- Stay in the same page, do not login the user & show error message. 3. Exception- Stay in the same page if possible.

Use Case Name: Passenger Booking a seat**Actor:** Passenger**Description:**

1. Input Way (Arrival/Departure), Route, Timeslot & Date.
2. Check the data. (Valid)
3. Store new booking into database.

Exception:

1. Required page not found.
2. No database connection.

Precondition:

1. Passenger logged in to the system.
2. Charge the cost from next semester's fee.

Post Condition:

1. **Successful**- Book a seat for the passenger.
2. **Unsuccessful**- Stay in the same page, do not book a seat & show error message.
3. **Exception**- Stay in the same page if possible.

Use Case Name: Checking past travels**Actor:** Passenger**Description:**

1. Retrieve and show all past travels from database.

Exception:

1. Required page not found.
2. No database connection.

Precondition:

1. Passenger logged in to the system.

Post Condition:

1. **Successful**- Show data about user's past travels.
2. **Unsuccessful**- Stay in the same page, do not show any data & show error message.
3. **Exception**- Stay in the same page if possible

Use Case Name: Seeing number of passengers**Actor:** Admin**Description:**

1. Input Way (Arrival/Departure), Route, Timeslot & Date.
2. Retrieve, calculate and show the number of passengers from database

Exception:

1. Required page not found.
2. No database connection.

Precondition:

1. Admin logged in to the system.

Post Condition:

1. **Successful**- Show number of passengers.
2. **Unsuccessful**- Stay in the same page, do not show any data & show error message.
3. **Exception**- Stay in the same page if possible.

Use Case Name: Adding a vehicle**Actor:** Admin**Description:**

1. Input brand, model, registration number & vehicle ID.
2. Check vehicle ID and registration number. (Unique)
3. Store a new vehicle into database.

Exception:

1. Required page not found.
2. No database connection.

Precondition:

1. Admin logged in to the system.
2. The vehicle does not exists.

Post Condition:

1. **Successful**- Add a vehicle.
2. **Unsuccessful**- Stay in the same page, do not add a vehicle & show error message.
3. **Exception**- Stay in the same page if possible

Use Case Name: Deleting a vehicle**Actor:** Admin**Description:**

1. Input vehicle number.
2. Check data. (Valid)
3. Delete the vehicle from database.

Exception:

1. Required page not found.
2. No database connection.

Precondition:

1. Admin logged in to the system.
2. The vehicle exists.

Post Condition:

1. **Successful**- Delete the vehicle & show success message.
2. **Unsuccessful**- Stay in the same page, do not delete the vehicle & show error message.
3. **Exception**- Stay in the same page if possible

Use Case Name: Adding a route**Actor:** Admin**Description:**

1. Input route ID & name.
2. Check route ID. (Unique)
3. Store a new route into database.

Exception:

1. Required page not found.
2. No database connection.

Precondition:

1. Admin logged in to the system.
2. The route does not exists.

Post Condition:

1. **Successful**- Add a route & show success message.
2. **Unsuccessful**- Stay in the same page, do not add a route & show error message.
3. **Exception**- Stay in the same page if possible

Use Case Name: Deleting a route**Actor:** Admin**Description:**

1. Input route ID.
2. Check route ID.(Valid)
3. Delete the route from database.

Exception:

1. Required page not found.
2. No database connection.

Precondition:

1. Admin logged in to the system.
2. The route exists.

Post Condition:

1. **Successful**- Delete the route & show success message.
2. **Unsuccessful**- Stay in the same page, do not delete the route & show error message.
3. **Exception**- Stay in the same page if possible

Use Case Name: Setting vehicle for a travel**Actor:** Admin**Description:**

1. Input Way (Arrival/Departure), Route, Timeslot, Date & vehicle number.
2. Check data. (Valid)
3. Store vehicle info to that particular travel.

Exception:

1. Required page not found.
2. No database connection.

Precondition:

1. Admin logged in to the system.

Post Condition:

1. **Successful**- Set up the vehicle for that travel & show success message.
2. **Unsuccessful**- Stay in the same page, do not set up the vehicle for the travel & show error message.
3. **Exception**- Stay in the same page if possible.