

# User Stories

## **US 01: Create a route**

As an admin, I should be able to Create a route, so that new routes are added.

Acceptance criteria:

- Route id should get auto-generated, and it should be a 3-digit number.
- The admin should be able to enter the source and destination for the new route.
- The source and destination fields should not be empty and should only contain alphabets. If the fields are empty or contain non-alphabetic characters, an error message should be displayed.
- The admin should be able to view the newly created route in the list of all routes.
- If any validation errors occur during the creation of the route, appropriate error messages should be displayed.
- Security: The admin should be authenticated before they are able to create a route.
- Data validation: The admin should not be able to create route details with invalid or incomplete information.
- Logging: All changes to route details should be logged so that they can be tracked and reviewed if necessary.
-

## **US 02: View route details**

As an admin, I should be able to view route details by route id.

Acceptance criteria:

- The admin should be able to enter a valid 3-digit route ID in the input field.
- If the admin enters an invalid route ID that is not a 3-digit number, an error message should be displayed.
- The route details should include the source, destination, and the list of trains that run on the route.
- If the specified route ID does not exist in the database, an error message should be displayed.
- If any validation errors occur during the viewing of the route details, appropriate error messages should be displayed.

## **US 03: View train details**

As a User, I want to be able to view train details by source and destination, so that I can easily find the train that best meets my needs.

Acceptance criteria:

- The source and destination fields should only contain alphabets. If the fields contain non-alphabetic characters, an error message should be displayed.

- If the source and destination fields are empty, an error message should be displayed.
- The train details should include the train number, train name, departure time, arrival time, and the days on which the train runs.
- If no trains run between the specified source and destination, an appropriate message should be displayed to the user.
- If any validation errors occur during the viewing of the train details, appropriate error messages should be displayed to the user.

#### **US 04: Update route details**

As an admin, I want to be able to update the details of a route by its ID, so that I can keep the application's routes up-to-date

Acceptance criteria:

- The admin must be able to successfully update the source and destination of a route by providing the route id.
- The route id must be a valid number that comprises 3 digits.
- If the route id is not a valid number, the admin must be notified of the error.
- The updated route details must be displayed to the admin.
- The admin should receive a success message when the route details are successfully updated.
- Security: The admin should be authenticated before they are able to update route details.
- Data validation: The admin should not be able to update route details with invalid or incomplete information.

- Logging: All changes to route details should be logged so that they can be tracked and reviewed if necessary.
- 

## **US 05: Delete a train**

As an admin, I should be able to delete a train from the list of trains available on a particular route by routeId and trainId.

Acceptance criteria:

- The deleted train should no longer be visible in the list of trains available for that route.
- The route id must be a valid number that comprises 3 digits.
- If the route id is not a valid number, the admin must be notified of the error.
- The admin should receive a success message when the train is successfully deleted.
- Security: The admin should be authenticated before they are deleting the train details.
- Data validation: The admin should not be able to delete train details with invalid or incomplete information.
- Logging: All changes to train details should be logged so that they can be tracked and reviewed if necessary.

## **US 06: Update train details**

As an admin, I should be able to update train details in an existing route.

Acceptance criteria:

- As an admin, I should be able to update the following train details in an existing route:
  - Train Id
  - Train name
  - Arrival time
  - Departure time
  - Fare
- The admin should receive a success message when the train details are successfully updated.
- Security: The admin should be authenticated before they are able to update train details.
- Data validation: The admin should not be able to update train details with invalid or incomplete information.
- Logging: All changes should be logged so that they can be tracked and reviewed if necessary.

## **US 07: Create train details**

As an admin, I want to create train details so that passengers can easily find the information they need about train schedules, fares, and name.

Acceptance criteria:

- As an admin, I should be able to add the following train details in an existing route:
  - Train Id
  - Train name
  - Arrival time
  - Departure time
  - Fare
  - Rout Id
- The created train details should be stored in the database.
- The created train details should be assigned a unique train ID.
- Security: The admin should be authenticated before they are able to create train details.
- Data validation: The admin should not be able to create train details with invalid or incomplete information.
- Logging: All changes should be logged so that they can be tracked and reviewed if necessary.

## **US 08: Update the fare**

As an admin, I want to update the fare of a particular train so that passengers can be aware of the latest changes in fares.

Acceptance criteria:

- I can update the fare of a train by providing the new fare by passing trainId.
- The admin should receive a success message when the train details are successfully updated.
- If the train id is not a valid number, the admin must be notified of the error.

- Security: The admin should be authenticated before they are able to update the fare.
- Data validation: The admin should not be able to update the fare with invalid or incomplete information.
- Logging: All changes to the fare should be logged so that they can be tracked and reviewed if necessary.
- The admin should receive a success message when the fare is successfully updated.