Railway Crossing Status

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Sprint planning

Week 1

1. Using proper naming conventions and code documentation

2. Create app structure for start coding

3. Create login functionality for security.

4. Create Admin login and Homepage

5. Create User login and Homepage

Week 2

1. **Display the status of the railway crossing: open or closed**

2. **Option to search railway crossing**

3. **Perform CRUD operations using JDBC for mysql**

4. **Add external jar files and configure the path**

5. **Navigation option to access all features**

Ensure working of all feature and function of app

Details of Classes and jsp

AddCrossingServlet

AddtoFavoritesServlet

AdminHomepageServlet

AdminLoginServlet

Database connection

DeleteCrossingServlet

LoginServlet

RemovefromFavoritesServlet

SearchCrossingServlet

UpdateCrossingServlet

UserDAO

JSP files

addRailcrossingForm

adminHome

adminLogin

Homepage

searchCrossing

updateRailCrossingForm

userHome

userHomeFavoriteCrossing

userLogin

userRegister

userSearchCrossing

Algorithm

- **Create new dynamic web project in STS**
- **Configure buildpath and add external jar files**
- **For the use of JDBC Add mysql connector**
- **Create login page in jsp**
- **Code to display the welcome screen. It displays:**
  - **Application name and the developer details**
  - **The details of the user interface such as options displaying the user interaction information**
  - **An option asking to navigate to either the public or government sections**
- **The first option is a separate webpage for the public:**
  - **It provides an option to authenticate the user. The user can create an account with basic details like name, email, password, and login if the account exists.**
  - **fetch the details of railway crossings.**
  - **With each railway crossing listed, it displays the status of the railway crossing**
  - **An option to search implemented to search for a railway crossing by name**
  - **User can mark a railway crossing as a favorite.**
  - **display the list of favorite railway crossings separately.**
- **The second option is used by the Railway Department to manage railway crossings.**
  - **A form through which an administrator can navigate to the government dashboard using a pre-created email and password in the database.**

- **Add a railway crossing to the application:**
  - create a form in HTML that can send an HTTP POST request to the Servlet to add the details to the database. Remember to use JDBC or Hibernate as a backend framework.

  - the Railway Crossing Model to have the following attributes:
    1. **Name**
    2. **Address (can have latitude and longitude as well)**
    3. **Landmark**
    4. **Train schedules (probably the timings as a textual description)**
    5. **Details of the person in charge of the railway crossing**
    6. **Status**
- **Delete a railway crossing from the application**
  - **Display a list of railway crossings with an option to delete them within the Table View**
  - **Return a suitable message upon successful deletion of the railway crossing**
  - **Option to update the status of the railway crossing**
  - **It can have the default state as open**
  - **The state can be updated to closed when a train is approaching the crossing**
  - **A proper navigation bar can be created using HTML5 to facilitate easier access to the mentioned options.**
  - **Exceptions should be handled for invalid input**