# Sprint Document

**Sprint No:** 2

**Sprint Duration:** 15 hours

**Sprint Goal:**

To develop the basic railway crossing status communication application, including user authentication, fetching and displaying railway crossing details, and basic CRUD operations for the government personnel.

## User Public Functionality:

1. **Implement User Authentication:**
   - **Description:** As a user, I want to be able to create an account and log in to access the application.
   - **Acceptance Criteria:**
     i. User registration form is available.
     ii. User login form is available.
     iii. User data is stored in the database.

2. **Display Railway Crossing Details for Public:**
   - **Description:** As a public user, I want to see a list of railway crossings and their status.
   - **Acceptance Criteria:**
     i. Create a public section.
     ii. Fetch and display railway crossing data.
     iii. Display the status of each railway crossing.

3. **Search for Railway Crossings**
   - **Description**: As a public user, I want to be able to search for railway crossings by name.
   - **Acceptance Criteria:**
     i. Implement a search functionality.
     ii. Search results are displayed dynamically.

4. **Mark Railway Crossing as Favorite**
   - **Description**: As a public user, I want to mark a railway crossing as a favorite.
   - **Acceptance Criteria:**
     i. Provide an option to mark crossings as favorite.
     ii. Store favorite crossings in the database.

5. **Display List of Favorite Crossings**
   - **Description:** As a public user, I want to see a list of my favorite railway crossings.
   - **Acceptance Criteria:**
     i. Create a separate page.
     ii. Display a list of favorite crossings.

**User Government Official Functionality:**

1.  As a government personnel, I want to authenticate and access the admin dashboard, so that I can manage railway crossings.
    - Implement the admin login functionality.
    - Design and implement the admin dashboard.
    - Implement the CURD operation according to the requirements.

**Tasks:**

1.  Implement user registration form.
2.  Implement user login form.
3.  Set up the database for user accounts.
4.  Create and display railway crossing details.
5.  Implement the search functionality.
6.  Allow users to mark crossings as favorites.
7.  Create a separate page for displaying favorite crossings.

**Definition of Done:**

- Code for user authentication is implemented and tested.
- Public section functionalities are tested and working.
- The database is updated and queries are tested.

**Additional Notes:**

- Test thoroughly and ensure all client's acceptance criteria are met.
- Update the project documentation as necessary.
- Prepare for the sprint review meeting to demonstrate the completed work to the team and stakeholders.