Assignment: Issue Management System

Objective

Build a simplified Issue Management Web App where users can report problems, track their status, and manage ongoing issues — similar to how teams handle bugs or customer tickets in real life.

Functional Requirements

- **Issue Fields:**

  - id (auto-generated)

  - title (required)

  - description

  - priority (Low, Medium, High)

  - status (Open, In Progress, Resolved, Closed)

  - createdDate

  - updatedDate

  - assignee (string field)

- **Core Features:**

  1. Create new issues

  2. View all issues

  3. Update issue details or status

  4. Delete issues

  5. Filter issues by priority or status

Technical Requirements

- **Backend:** Java + Spring Boot

  - RESTful endpoints

  - Use JPA/Hibernate with MySQL or H2 database

  - Handle validation and exception

  - Return appropriate HTTP status codes (200, 201, 404, etc.)

- **Frontend:** Angular (You may use any UI library or CSS framework)

    o   Display issues in a table or card format

    o   Provide forms for creating and editing issues

    o   Provide option to delete the issue

    o   Include basic field validations (e.g., title required)

    o   Implement filters to view issues by priority or status

- **Tools:**

    o   Git + GitHub

    o   Postman for API testing

    o   MySQL Workbench or H2 console

    o   VS Code / Spring Tool Suite (STS)

Deliverables

- Source code on GitHub (public or shared repo)

- A short README including:

    o   Setup instructions

    o   Technologies used

    o   API endpoints list

- Screenshots: Show UI and Postman tests demonstrating functionality

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Submission

- Share your GitHub repository link via email