**Assignment: Task Management System**

**Objective:**  
Build a simple **Task Management System** that allows users to create, read, update, and delete tasks using a frontend built with **HTML, CSS, Bootstrap, and JavaScript**, and a backend using a database.

**Wireframe:**

A screenshot of a computer

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A screenshot of a phone

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A white rectangular object with black lines

AI-generated content may be incorrect.

**Project Requirements**

1. **Frontend (HTML, CSS, Bootstrap, JavaScript)**
   * Create a user-friendly interface for managing tasks.
   * Use Bootstrap for styling and responsiveness.
   * Implement form validation using JavaScript.
2. **CRUD Operations**
   * **Create:** Add a new task with fields like Task Name, Description, Priority, Due Date, and Status.
   * **Read:** Display a list of tasks in a table format.
   * **Update:** Allow users to edit task details.
   * **Delete:** Provide an option to remove tasks.
3. **Backend & Database**
   * Use **MySQL** to store task details.
4. **API Endpoints (Example for Node.js)**

* GET /tasks → Fetch all tasks.
* POST /tasks → Add a new task.
* PUT /tasks/:id → Update task details.
* DELETE /tasks/:id → Remove a task.

**Frontend Implementation**

1. **Task Form:** Create a form similar to the wireframe with dropdowns, text fields, and file uploads.
2. **Task List Page:** Display tasks in a **table** with options to **Edit** and **Delete**.
3. **Validations:**
   * Required fields must be validated.
   * Estimated and completed hours should be numeric.
   * Comments should be limited to 500 characters.

**Bonus Features**

* Add **Search & Filter** functionality in the task list.
* Implement **pagination** in the task list.

**Deliverables**

* GitHub repository with **README.md** file explaining setup instructions.
* Working with CRUD operations.
* Fully functional UI with task management features.