SRM Madurai College for Engineering and Technology

Department: Information Technology
College Code: 9111
Student Name: Yohalakshmi K R
Student NM-ID: F88A177913E7D008C2449F0CD6701F61
Roll No: 23IT58
Date: 15.9.25
Phase: Phase 1
Technology Project Name: To-Do List Application
Mobile Number: 7604941457

Introduction

A To-Do List app helps users keep track of daily tasks. This project focuses on building a simple, responsive web app integrated with a Node.js REST API. Phase 1 defines the problem statement, users, MVP scope, and acceptance criteria.

Problem Statement

Students and professionals face difficulty organizing day-to-day work. Existing solutions may be too heavy or do not clearly demonstrate API integration.
Requirement: A lightweight, beginner-friendly To-Do list with REST API.

Objectives

- Build an easy-to-use web app.
- Demonstrate frontend and backend integration (React & Node.js).
- Offer CRUD (Create, Read, Update, Delete) operations on tasks.
- Ensure responsive, secure, and fast task management.

Users & Stakeholders

Stakeholder	Role
End Users	Students / working professionals
Developers	Team implementing frontend & REST API
Faculty / Mentors	Guide & evaluate
IBM / College	Platform & curriculum support

User Stories

- As a user, I can add a task with title and description.
- I can mark tasks complete/incomplete.
- I can edit or delete tasks.
- As admin/developer, I can monitor API responses and logs.

MVP Features

- Add, view, edit, and delete tasks.
- Mark tasks as done or pending.
- Optional simple login for authentication.
- Local storage or database persistence.
- Responsive design for desktop and mobile.

Wireframes (Sample)

- **Home screen:** Header, task list, "Add Task" button.
- **Task form:** Fields for title, description, save/cancel.
- **List controls:** Mark done, edit, delete.

(Insert your drawings or Figma screenshots in the PPT)

API Endpoint List & Acceptance Criteria

Method	Endpoint	Description
GET	/tasks	Fetch all tasks
POST	/tasks	Add a new task
PUT	/tasks/:id	Update task
DELETE	/tasks/:id	Delete task

Acceptance Criteria:

- User can create, update, delete, and mark tasks.
- Data persists (local state or database).
- API works in Postman.
- Interface is clean and mobile-friendly.
- Code versioned on GitHub.

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