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COMPUTER SCIENCE ENGINEERING

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Completed The Project Named as

Phase 1

TO-DO LIST APPLICATION

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Phase 1 — Problem Understanding & Requirements

Problem Statement

In today's fast-paced life, people often struggle to remember and organize their daily activities, assignments, and responsibilities. Traditional methods such as writing tasks on paper or memorizing them are unreliable and can lead to missed deadlines and reduced productivity.

The problem is the lack of a simple, effective, and easily accessible tool to manage tasks in an organized manner.

A To-Do List Application is required to allow users to:

Add tasks they need to complete,

Edit tasks when changes are needed,

Delete tasks once they are done, and

View all tasks in a clear, structured list.

Users & Stakeholders

Primary Users

Students → To manage assignments, exams, and daily study schedules.

Working Professionals → To track meetings, deadlines, and work-related tasks.

General Users → To organize personal activities, shopping lists, and reminders.

Stakeholders

End Users → The people who use the app for their daily task management.

Development Team → Designers and developers responsible for building and maintaining the app.

Academic Evaluators / Faculty → In case of a project submission, teachers and evaluators are stakeholders as they review and grade the project.

Future Business Stakeholders (Optional) → If the app is expanded commercially, product managers, investors, or organizations may also be stakeholders. This solution will provide users with an efficient way to manage their daily activities, stay organized, and increase productivity

User Stories – To-Do List Application

1. As a user, I want to add new tasks so that I can keep track of things I need to do.
2. As a user, I want to edit tasks so that I can update details when something changes.
3. As a user, I want to delete tasks so that I can remove completed or irrelevant items.
4. As a user, I want to mark tasks as completed so that I can see my progress.
5. As a user, I want to view all my tasks in a clear list so that I can easily organize my day.
6. As a user, I want my tasks to be saved (in local storage or database) so that they are not lost when I close the app.

MVP (Minimum Viable Product) Features – To-Do List Application

1. Add Task → User can add new tasks to the list.
2. Edit Task → User can update/modify existing tasks.
3. Delete Task → User can remove tasks once they are completed or no longer needed.
4. Mark as Completed → User can check off tasks to track progress.

5. View Task List → All tasks are displayed in a clear, structured list format.

6. Instant UI Update → All changes (add/edit/delete) are reflected immediately without page reload.

Wireframes – To-Do List Application

Main Page Layout

	To-Do List Application	

	[Enter your task here...] [+]	← Input box + Add button

	• Task 1	[Edit] [Delete]
	• Task 2	[Edit] [Delete]
	• Task 3	[Edit] [Delete]

Header → Title of the app

Input Section → Text field + Add button to create a task

Task List Section → List of tasks with options to edit, delete, and mark as completed

API Endpoint List (Optional – If Backend is Used)

If you extend your To-Do List with a backend (Node.js + Express + MongoDB/SQL), the API endpoints could be:

POST /tasks → Add a new task

GET /tasks → Retrieve all tasks

PUT /tasks/:id → Edit an existing task

DELETE /tasks/:id → Delete a task

PATCH /tasks/:id/complete → Mark a task as completed

Acceptance Criteria – To-Do List Application

1. Add Task

Given a user enters a task in the input field and clicks the Add button,

Then the task should appear in the task list instantly.

2. Edit Task

Given a user clicks the Edit button on a task,

Then the task text should become editable and the updated text should be saved after confirmation.

3. Delete Task

Given a user clicks the Delete button on a task,

Then that task should be removed from the task list immediately.

4. Mark as Completed

Given a user clicks a checkbox (or mark option) beside a task,

Then the task should appear visually different (e.g., crossed out or with a checkmark) to indicate completion.

5. View Task List

When the user opens the app,

Then all existing tasks (from memory or localStorage) should be displayed in a clear list.

6. Instant Updates

All add, edit, delete, and complete actions must update the UI dynamically without requiring a page reload.