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COMPLETED THE PROJECT NAME-:
PHASE 1

TECHNOLOGY PROJECT NAME
To-Do List Application

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1. Problem Statement

In today's fast-paced lifestyle, people face difficulties in remembering and organizing their daily tasks. Forgetting important work, assignments, or deadlines leads to decreased productivity and stress.

A To-Do List Application provides a simple, user-friendly platform where users can add, edit, delete, and track tasks easily. This ensures they stay organized, focused, and efficient in managing personal and professional responsibilities.

2. Users & Stakeholders

Users

Students: To track assignments, study schedules, and exams.

Working Professionals: To manage meetings, projects, and deadlines.

General Public: To handle daily routines, shopping lists, and personal reminders.

Stakeholders

End Users: People who use the application.

Developers: Team building and maintaining the app.

Project Manager / Product Owner: Oversees development and ensures features align with requirements.

Investors / Sponsors (optional): May support advanced features (ads, premium version).

3. User Stories

1. As a user, I want to add a new task with a title and optional description, so I can remember it later.
2. As a user, I want to edit/update a task, so I can modify the task details when needed.
3. As a user, I want to delete tasks, so I can remove completed or irrelevant tasks.
4. As a user, I want to mark tasks as completed, so I can track my progress.
5. As a user, I want to filter/view tasks (All, Completed, Pending), so I can organize better.
6. As a user, I want to set due dates or deadlines (future enhancement), so I can prioritize important tasks.
7. As a user, I want a simple, clean UI, so that I can use the app without confusion.

4. MVP Features

☞ The MVP (Minimum Viable Product) should contain the must-have features for basic usability:

- ☒ Add new tasks
- ☒ View all tasks in a list
- ☒ Edit/Update tasks
- ☒ Delete tasks
- ☒ Mark tasks as completed
- ☒ Basic filter (All, Completed, Pending)

(Future Enhancements: Reminders, Notifications, Categories, User Login, Cloud Sync, Dark Mode, Voice Input, Collaboration features, etc.)

5. Wireframes & API Endpoint List

Wireframe (Conceptual Design)

Home Screen (Task List):

To-Do List App

[Add Task]

☐ Buy Groceries

[Edit] [Del]

☒ Finish Homework

[Edit] [Del]

☐ Pay Electricity

[Edit] [Del]

Filter: [All] [Completed] [Pending]

Add/Edit Task Screen:

Add / Edit Task

Task Title:

Description:

[Save] [Cancel]

API Endpoint List (If Backend is used)

POST /tasks → Add a new task

GET /tasks → Get all tasks

GET /tasks/{id} → Get a specific task

PUT /tasks/{id} → Update a task

DELETE /tasks/{id} → Delete a task

PATCH /tasks/{id}/complete → Mark a task as completed

6. Acceptance Criteria

- ☒ User must be able to add a new task with at least a title.
- ☒ Tasks must be stored and retrievable when reopening the app.
- ☒ Users can edit/update task details.
- ☒ Users can delete tasks, and deletion must be reflected instantly.
- ☒ Users can mark tasks as completed, and completed tasks should appear differently (e.g., strikethrough, green tick).
- ☒ Filter option (All/Completed/Pending) must work correctly.
- ☒ UI should be responsive, simple, and intuitive.
- ☒ Application should not crash during normal usage.

⚡ Extra Detailing Additions for Next Phase:

Priority levels (High/Medium/Low).

Deadline calendar integration.

Notification system for overdue tasks.

Multi-device sync using cloud backend.