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**ROLL NUMBER:**  950423104041

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**COMPLETED THE PROJECT NAME-:**

PHASE 1

**TECHNOLOGY PROJECT NAME**

**To-Do List Application**

**SUMITTED BY:**

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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.

1. 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):

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| To-Do List App |

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| [Add Task] |

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| ☐ Buy Groceries [Edit] [Del] |

| ☑ Finish Homework [Edit] [Del] |

| ☐ Pay Electricity [Edit] [Del] |

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Filter: [All] [Completed] [Pending]

Add/Edit Task Screen:

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| Add / Edit Task |

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| Task Title: [\_] |

| Description: [\_] |

| [Save] [Cancel] |

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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.