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AI-Powered To-Do List Project

1. Components

1. **User Interface (UI):**
   - A simple front-end where users can manage their tasks.
   - Includes fields for adding a task, editing it, deleting it, and entering a due date for each task.
2. **Backend System:**
   - Manages tasks and stores task data.
   - Facilitates adding, editing, deleting, and retrieving tasks from the database.
3. **AI Chatbot:**
   - A simple chatbot that provides suggestions to users based on their task list.
   - Users can ask the chatbot questions like:
     - "Which task should I do next?"
     - "Which task is the most important?"
   - The AI ranks tasks based on the due date and suggests tasks accordingly.
4. **Database:**
   - Stores task details, including task description and the last date to complete it

2. Features

1. **Add, Edit, and Delete Tasks:**
   - Users can create new tasks, modify existing ones, or remove completed or unnecessary tasks.
   - Each task has a description and a due date (last date to complete the task).
2. **Task Suggestions via Chatbot:**
   - Users can interact with the chatbot and ask which task they should prioritize.
   - Example Input: "What task should I complete first?"
   - Example Output: "Complete ‘Submit assignment’ by tomorrow."
3. **Due Date for Tasks:**
   - Users can set a last date to complete each task, helping prioritize and organize their schedule.
4. **Simple User Interaction:**
   - Tasks are displayed in a list format with their due dates.
   - Users can mark tasks as completed, and the list updates accordingly

3. Generative AI Use Case

The generative AI is used to suggest task prioritization based on the due dates:

- **Scenario:** A user inputs tasks with deadlines and asks the chatbot, "Which task should I do next?"
- **AI Response:** "You should complete ‘Buy groceries’ as it is due tomorrow.