

Project Proposal: TaskEase - Simplify Your Tasks

Group 3:

Members: Janhavi Kulkarni
Vyshnavi Gavara
Abdu Raziq Hidayathulla.

Application Name: TaskEase

Application Description:

TaskEase is a comprehensive task management application designed to simplify task organization and boost productivity for individuals and teams. Whether you're a busy professional juggling multiple projects, a collaborative team member working towards common goals, or a diligent student managing academic assignments, TaskEase provides the essential tools you need to stay organized, focused, and on track. With its intuitive interface and robust features, TaskEase empowers users to create, manage, prioritize, and track tasks effortlessly, streamlining task management and reducing stress.

Scenarios:

- Individual Task Management:** Sarah, a busy professional, uses TaskEase to manage her daily tasks. From client meetings to project deadlines, she relies on TaskEase to create, organize, and prioritize her tasks efficiently.

- **Team Collaboration:** The marketing team at XYZ Company uses TaskEase to collaborate on a new campaign. Team members create tasks, assign responsibilities, track progress, and communicate seamlessly within the application, ensuring project success and coordination.
- **Deadline Tracking:** John, a student, leverages TaskEase to manage his academic assignments and deadlines. With TaskEase's reminder system and progress tracking features, he stays on top of his coursework, meets deadlines, and achieves academic success.

Functional Requirements:

1. User Authentication:

We need to ensure that our users' accounts and data are secure. Let's implement a robust user authentication system.

Users should be able to sign up with unique usernames and strong passwords.

We should encrypt passwords using techniques like bcrypt before storing them in the database.

Consider implementing session management to keep users logged in securely.

Let's add a password recovery/reset functionality through email verification for added security.

2. Task Creation:

Users should be able to create tasks easily. Let's design a simple interface for this.

Include fields for task title, description, deadline, and priority level. Make sure to validate the input to ensure all required fields are filled and deadlines are in the future.

It might be helpful to generate unique identifiers for each task to track them efficiently.

3. Task Editing:

Users will likely need to edit tasks sometimes. Let's allow them to do this easily.

Provide options to edit task title, description, deadline, and priority level. Ensure that only the task owner or authorized users can edit tasks.

Let's implement validation to prevent unauthorized edits.

4. Task Deletion:

Sometimes tasks become irrelevant or unnecessary. We should allow users to delete them.

Provide a delete option with confirmation dialogs to prevent accidental deletion.

Upon confirmation, remove the task from the database.

5. Reminders:

To help users stay organized and meet deadlines, we should implement a reminder system.

Schedule reminders based on task deadlines.

Users should be able to customize reminder settings.

Consider using push notifications, emails, or in-app notifications for reminders.

6. Progress Tracking:

Users will want to track their task progress. Let's add features for this. Include visual indicators or progress bars to show task status.

Allow users to manually update task status (To Do, In Progress, Completed).

Implement sorting or filtering options to view tasks based on status.

7. Collaboration:

Collaboration is important for teams. Let's facilitate this within our app.

Enable task assignment to specific team members.

Implement a comment system for discussing tasks.

Allow file attachments to tasks for sharing relevant documents.

8. Data Synchronization:

Users should have seamless access to tasks across devices. Let's ensure data synchronization capabilities.

Utilize a cloud-based database for storing task data.

Implement synchronization mechanisms using APIs or web sockets for real-time updates.

Handle conflicts that may arise from simultaneous edits on different devices.

Project Plan:

- **Version 1 (Week 1-2):**

- Implement user authentication and basic task creation functionality.
- Develop initial user interface prototype for task management.

- **Version 2 (Week 3-4):**

- Enhance task management functionalities by adding editing, deletion, and priority setting features.
- Integrate reminder system to provide deadline notifications.

- **Version 3 (Week 5-6):**

- Implement collaboration features for task assignment, commenting, and file sharing.
- Enhance user interface design for improved usability and aesthetics.

- **Final Version (Week 7):**

- Implement progress tracking functionality to monitor task statuses.
- Ensure data synchronization across multiple devices for seamless access.
- Perform thorough testing, debugging, and documentation for final release.

UI Prototype:

The UI prototype for TaskEase will encompass the initial design and user interactions related to task management. It will focus on depicting the look and feel of all screens relevant to task creation, editing, deletion, priority setting, reminders, progress tracking, and collaboration. The prototype will aim to provide a visual representation of the application's functionality and user interactions, ensuring clarity and usability for users.

Additionally, the prototype will demonstrate how users will interact with the application to accomplish tasks effectively. This includes showcasing the process of creating, editing, and deleting tasks, setting status, receiving reminders, tracking progress, and collaborating with team members. User interactions such as button clicks, form submissions, and navigation paths will be simulated to illustrate the flow of actions within the application.

By creating a comprehensive UI prototype that accurately represents the application's features and user interactions, we aim to ensure that stakeholders have a clear understanding of the proposed design and functionality. This will facilitate effective communication and alignment throughout the development process, leading to the creation of a user-friendly and intuitive task management application.

TaskEase Application

Login	-	X
User	<input type="text"/>	
password	<input type="password"/>	
<input type="button" value="Login"/>	<input type="button" value="Signup"/>	

New User Signup!

First name	<input type="text"/>
Last name	<input type="text"/>
Username	<input type="text"/>
password	<input type="password"/>
Re-enter	<input type="text"/>
<input type="button" value="Sign UP"/>	

TaskEase Application

what do you need to do today?

Add Some more notes!!

Tasks!!

VIEW:	To Do	▼
	To Do	
	In Progress	
	Completed	

last updated, 04/04/2024

Created, 03/04/2024