**Software Requirements Specification (SRS)**

**Project: AI Generated Project**

Prepared By: Your Company Name  
Version: 1.0  
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**1. Introduction**

**1.1 Purpose**

This document outlines the functional and non-functional requirements for the AI Generated Project system. The primary purpose of this project is To help users manage tasks efficiently..

**1.2 Scope**

The AI Generated Project system will provide functionalities for:

* Task Management
* Project Planning

**1.3 Intended Audience**

This document is intended for the following stakeholders:

* Students
* Professionals
* General users
* Project Managers
* Developers
* QA/Testers

**2. System Overview**

A simple and intuitive to-do list app designed to help users manage tasks efficiently.

The system will consist of the following primary functional areas:

* Task Creation
* Task Editing
* Task Deletion
* Task Due Dates
* Task Reminders
* Task Categorization
* Calendar View
* List View
* Task Completion
* Data Synchronization
* User Authentication

**3. Functional Requirements**

**3.1 Task Creation [0]**

**Description:** Users can create new tasks with a title, description, and optional due date and reminder.

**Application:** To-Do List App

**Priority:** High

**Type:** Functional

**Dependencies:** []

**Constraints:** Task title must be at least 3 characters long.

* Due date must be in a valid date format.

**Acceptance Criteria:** A user can enter a task title and description to create a new task.

* A user can optionally set a due date for a task.
* A user can optionally set a reminder for a task.
* Created tasks are displayed in the task list.

**3.2 Task Editing [1]**

**Description:** Users can modify existing tasks by updating their title, description, due date, reminder, or status.

**Application:** To-Do List App

**Priority:** High

**Type:** Functional

**Dependencies:** []

**Constraints:** Edits should be reflected in real-time.

**Acceptance Criteria:** Users can change the title of an existing task.

* Users can add or modify the description of an existing task.
* Users can update the due date of an existing task.
* Users can set or modify a reminder for an existing task.
* Users can change the status of an existing task (e.g., from 'Pending' to 'In Progress' or 'Completed').

**3.3 Task Deletion [2]**

**Description:** Users can permanently remove tasks from the to-do list.

**Application Area:** Task Management

**Priority:** High

**Type:** Functional

**Stakeholders:** End Users

**Constraints:** Deleted tasks cannot be recovered.

* Deletion should be irreversible.

**Acceptance Criteria:** A user can select a task and delete it.

* Deleted tasks are removed from the task list display.
* Confirmation dialog should appear before deleting a task.
* The confirmation dialog should clearly state the action (deleting the task) and its irreversibility.
* The user should be able to cancel the deletion action.

**3.4 Task Due Dates [3]**

**Description:** Users can set due dates for tasks to track deadlines.

**Constraints:** Due dates must be in a valid date format (e.g., YYYY-MM-DD).

**Acceptance Criteria:** Users can input a due date for a new task.

* Existing tasks can have their due dates updated.
* The app should display the due date for each task.
* Tasks should be sorted by due date (ascending or descending).

**Priority:** High

**Category:** Core Functionality

**3.5 Task Reminders [4]**

**Description:** Users can set reminders for tasks to prompt them about upcoming deadlines.

**Constraints:** Reminders must be set within a valid date and time range.

* Users should be able to select the type of reminder notification (e.g., sound, vibration, email).

**Acceptance Criteria:** Users can specify a date and time for a reminder.

* The app should display a notification to the user when a reminder is triggered.
* Users can view a list of upcoming reminders.
* Reminders should be adjustable or cancellable by the user.

**Priority:** High

**Type:** Functional

**3.6 Task Categorization [5]**

**Description:** Users can categorize tasks using tags or labels for better organization.

**Application Area:** Task Management

**Priority:** High

**Type:** Functional

**Dependencies:** []

**Constraints:** Tags should be alphanumeric and allow spaces.

* Users should be able to apply multiple tags to a single task.

**Acceptance Criteria:** Users can create new tags.

* Users can assign existing tags to tasks.
* Users can view tasks filtered by specific tags.
* Users can search for tasks by tag.

**3.7 Calendar View [6]**

**Description:** The app provides a view to display tasks in a calendar format, showing task due dates.

**Constraints:** []

**Acceptance Criteria:** Tasks should be displayed as events on the calendar.

* The calendar should display tasks for the current day, week, and month.
* Users should be able to navigate between different calendar views (day, week, month).
* Each calendar event should display the task title and due date.
* Users should be able to click on a calendar event to view the associated task details.

**Priority:** High

**Stakeholders:** End Users

**Dependencies:** []

**Related Requirements:** []

**3.8 List View [7]**

**Description:** The app provides a list view to display all tasks, allowing users to sort and filter them.

**Priority:** High

**Type:** Functional

**Application Area:** User Interface

**Constraints:** The list view should be responsive and adapt to different screen sizes.

**Acceptance Criteria:** Display all tasks in an organized list format.

* Allow sorting tasks by due date, priority, or creation date.
* Enable filtering tasks by status (e.g., completed, pending)
* Provide clear visual indicators for task status (e.g., completed tasks marked with a checkmark).

**3.9 Task Completion [8]**

**Description:** Users can mark tasks as complete to indicate they have been finished.

**Constraints:** []

**Acceptance Criteria:** A user should be able to visually mark a task as complete.

* Marking a task as complete should update its status in the application.
* Completed tasks should be distinguishable from incomplete tasks.
* There should be a clear action to unmark a task as complete, reverting it to incomplete status.

**Priority:** High

**Business Value:** Improves user satisfaction and task management efficiency by allowing users to track progress.

**Stakeholders:** End-users

* Product Manager

**3.10 Data Synchronization [9]**

**Description:** The app allows users to synchronize their task data across multiple devices.

**Priority:** High

**Type:** Functional

**Stakeholders:** Users

* Development Team

**Constraints:** Synchronization should occur seamlessly in the background.

* Data loss during synchronization should be avoided.

**Acceptance Criteria:** Users can add, edit, and delete tasks on one device and have the changes reflected on other devices.

* Synchronization should happen automatically when the device is connected to the internet.
* Users should be notified of successful synchronization.
* Users should be informed if synchronization fails and provided with troubleshooting steps.

**3.11 User Authentication [10]**

**Description:** The app maintains user accounts and handles secure user authentication.

**Priority:** High

**Type:** Functional

**Application Area:** Login/Registration

**Stakeholders:** Users

* Administrators

**Dependencies:** []

**Constraints:** Authentication must be secure and protect user data.

* User accounts must be unique.

**Acceptance Criteria:** Users can create new accounts with unique usernames and passwords.

* Existing users can log in using their valid credentials.
* The app supports password recovery through email.
* User sessions should timeout after a period of inactivity.
* The app should enforce strong password policies.

**4. Non-Functional Requirements**

|  |  |
| --- | --- |
| **ID** | **Description** |
| NFR-1 | The application should be responsive and mobile-friendly. |
| NFR-2 | Tasks should sync across devices using cloud storage. |
| NFR-3 | The system should support at least 10,000 users simultaneously. |