**Software Requirements Specification (SRS) Document**

**Day Planner Application  
by team**

**Document Information**

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**1. Introduction**

**1.1 Purpose**

The purpose of this Software Requirements Specification (SRS) document is to define the requirements for the development of a **Day Planner Web Application** which makes tasks management easier and follows the idea of supervision. This app allows user to input tasks which can be prioritized by allowing task overwrite for the most important tasks and set reminders accordingly. This project is an attempt to make a user-friendly interactive platform where each user is allowed to specifically design their daily tasks.

This document outlines the features, functionality, and constraints of the software to guide its design and development.

**1.2 Scope**

The Day Planner Web Application is intended to provide users with a digital tool for managing their daily schedules, events, tasks, and reminders. It will offer a user-friendly interface with features that help users organize and optimize their time efficiently.

**1.3 Definitions, Acronyms, and Abbreviations**

SRS: Software Requirements Specification

UI: User Interface

API: Application Programming Interface

**1.4 Overview**

This document is organized into several sections, including an introduction, an overall description of the software, specific requirements, system features, external interfaces, functional requirements, non-functional requirements, system constraints, user documentation, and assumptions and dependencies.

**1.5 Unique Selling Point**

Widget Feature in Our Day Planner Application

Our daily planner system introduces a Widget feature, offering users quick and convenient access to their schedules and tasks directly from their device's home screen. With this unique feature, users can effortlessly stay organized, monitor their daily progress, and efficiently manage their time—all without the need to open the app. The Widget provides a seamless and time-saving way to stay on top of the user’s daily planning and productivity goals.

**2. Overall Description**

**2.1 Product Perspective**

The Day Planner Application will be a standalone application designed to run on mobile devices. It will interact with users through a graphical user interface and may integrate with external calendar services and email clients.

**2.2 Product Features**

**The software will include the following key features:**

* User Registration and Authentication
* Create and Manage Events
* Calendar View
* Task Management
* Reminders and Notifications
* Data Backup and Recovery
* User Profile

**2.3 User Classes and Characteristics**

The primary users of the Day Planner Application will be individuals who need to manage their daily schedules, appointments, and tasks efficiently. Users may include professionals, students, and anyone who values effective time management.

**2.4 Operating Environment**

The software will be compatible with the Android OS (versions 8.0 and above).

**2.5 Design and Implementation Constraints**

* The software will be developed using Flutter for front end MySQL to manage the database and Django for the back end development.
* The user interface will be designed to be intuitive and user-friendly.
* Data storage and synchronization will require internet connectivity.

**2.6 User Documentation**

User documentation, including user manuals and online help, will be provided to assist users in learning how to use the software effectively.

**2.7 Assumptions and Dependencies**

* The software assumes that users have access to a compatible device and internet connectivity.
* Dependencies may include third-party libraries, APIs, or services for features like calendar synchronization.

**3. Specific Requirements**

This section provides detailed information about the specific requirements of the Day Planner Application.

**3.1 External Interface Requirements**

**3.1.1 User Interface**

The user will be able to track his/her progress, check whether the scheduled task is completed or not and if there is any need to modify his schedule for the particular day. We will be adding specific features like tracking of tasks so that the user will be notified when an important task is upcoming. We will also allow user to add reminders for 5 mins before the task or an hour before the task.

**3.1.2 Hardware Interfaces**

Any compatible device with a stable internet connection.

**3.1.3 Software Interfaces**

External applications such as the device’s Calendar application, email clients, etc.

**3.1.4 Communication Interfaces**

The software will work with external system features such as Time and Date, Calendar, email clients,

**3.2 Functional Requirements**

* Feature 1: User Registration and Authentication
* Requirement 1.1: Users must be able to create an account.
* Requirement 1.2: Users must be able to log in with their credentials.
* Requirement 1.3: User authentication must be secure.

**3.3 Non-Functional Requirements**

**3.3.1 Performance Requirements**

**Response Time:** The software must load the calendar view within 2 seconds.

**Concurrent Users:** The software must handle a minimum of 1,000 users concurrently.

**Data Synchronization:** Synchronization of data with external calendars should occur in real-time or with a delay of no more than 5 minutes.

**Scalability:** The system must be able to scale horizontally to accommodate increased user load.

**3.3.2 Security Requirements**

* User data must be encrypted during transmission.
* User passwords must be securely stored using industry-standard hashing algorithms.

**3.3.3 Reliability Requirements**

* The software must have a minimum uptime of 99.9%.
* Data loss during synchronization should be minimized.

**3.3.4 Compatibility Requirements**

* The software must be compatible with popular web browsers.
* Mobile apps must be compatible with major mobile operating systems.

**4. System Features**

**4.1 Feature 1: User Registration and Authentication**

* Users must be able to create a new account.
* Users must be able to log in with their username and password.
* User authentication must be secure and protect user data.
* System Behavior
* Users can register by providing their email address and creating a password.
* Passwords are securely hashed and stored in the database.
* Users can log in using their registered email and password.
* Authentication tokens are issued to verified users.

**4.2 Feature 2: Task Management**

* To-Do List: A list which will track all the tasks to be completed for the day.
* Priority Levels: Users can designate task priorities by color coding and labelling.
* Due Dates and Deadlines: Allow users to specify task deadlines.
* Checkboxes: Provide checkboxes or markers to indicate whether the task is completed.
* Notes and Details: Space for users to add task descriptions or short notes.
* Task Categorization: Segregate the tasks in various categories.
* Drag-and-Drop Functionality: User can reorder tasks by moving them to different time slots.
* Task Progress Tracking: Users can track the progress of ongoing tasks (progress bar or percentage completion).

**4.3 Feature 3: Time Management**

* Reminders and Notifications: Send reminders and notifications for upcoming tasks or deadlines.
* Weekly timesheet: To track the time spent on a task during the entire week.
* Daily timesheet: A list of daily tasks to be done on that day.
* Task Timer: Display timer to log time spent on individual tasks.

**4.4 Feature 4: Customization**

* Custom Tags: User can add tags (doing/completed/cancelled) to the tags.
* Layouts & Themes: User can change the theme(light/dark) and can also change the colour schemes of the layout.

**4.5 Feature 5: Layout**

* Priority Task Display: According to the actual time, display the tasks according to that slot on the top.
* Activity Stream: Display all the activity updates.
* Calendar view: User can view all the events/tasks along-with their deadlines.
* Summary view: View of all the key events for the previous, current, and the following week.

**4.6 Feature 6: Reports and Analytics**

* Task Reports: These reports will help users track their progress on various projects or tasks.
* Time reports: A detailed view of the time spent by a user on the tasks along with the time spent on it.
* Total Hours Worked: Display the total hours worked by summing up the daily totals.

**4.7 Feature 7: Data Backup and Recovery**

* Users can create manual backups of their data.
* In case of data loss, users can restore their data from a backup.

**4.8 Feature 8: User Profile**

* Users can update their profile information (e.g., name, profile picture).
* Users can customize notification preferences.
* Language and time zone settings can be adjusted.

**5. User Documentation**

The user documentation will include the manual on how to use the application providing guidance on how to customize the software according to personal interests.

It will also include the Terms and Conditions explaining how much of user data will be gathered and stored in our servers. The gathered data will help in providing a better experience to the user.