SRS for Time Tracking Management

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**Software Requirements Specifications (SRS) for Time Tracking**

**Management**

# Introduction

A software requirements specification (SRS) is a comprehensive description of the intended purpose and environment for [software](https://searchapparchitecture.techtarget.com/definition/software) under development. The SRS fully describes what the software will do and how it will be expected to perform.

## Purpose

A software requirements specification describes how time management system should be developed. it provides everyone involved with a roadmap for that system.

The audience of this SRS will be any conference, profession or clients that needs assistance with increasing efficiency, employees who are stressed out at work are another key audience, and the technical professionals developing the software.

## Scope

The objective of this project is to create and implement an app TTM system.

The application TTM system involves organizing and planning your time so you can get the most out of your days and accomplish your goals. If you’re struggling to balance work and life demands, a few simple tools can help you feel less overwhelmed and ensure that you don’t overlook important. TTM can also help you set goals, beat procrastination, prioritize responsibilities, and even analyze your current time usage so that you can quickly change practices that eat up your time. The app will allow users to create and maintain individual secured accounts, and adding tasks, and will offer you activities to-do in your free time, and samples tables to manage your time in different way.

## Definitions, Acronyms, and Abbreviations

This document uses the following definitions, acronyms, and abbreviations:

TTM : **T**ime **T**racking **M**anagement

## References

The following material was used in creating this document:

IEEE Std 830-1998, IEEE Recommended Practice for Software Requirements Specifications.

## Overview

The rest of the SRS is organized as follows:

• Section 2 is an overall description of the project.

• Section 3 cites the specific requirements.

**2. Overall Description**

**2.1 Product Perspective**

The system will interact with the Inventory database, which records the date of each task, and the tasks in to-do list tables.

**2.2.Product Functions**

**2.2.1. Account Registration**

Will allow users to create their own account by entering username, password and email.

**2.2.2. Account Login**

After the registration, the user will be able to enter the username and password, also the user will be able to access the features in the website.

**2.2.3 Adding tasks**

Adding task will allow users to save the tasks in specific date.

**2.2.4 Removing tasks**

Remove any unwanted tasks from specific date.

**2.2.5 Updating tasks**

Update tasks on a specific date.

**2.2.6 Creating to-do list table**

Adding new tables to schedule the tasks.

**2.2.7 Removing to-do list table**

It will allow users to remove tables and all tasks associated with those tables.

**2.2.8 updating to-do list table**

It will allow users to update the description of the tasks, the dates of the tasks and the name of to-do list table.

**2.2.9 Set reminder**

With each task will offer you to set reminder.

**2.2.10 Activities to-do**

This option offers users activities to do in their spare time according to their schedule.

**2.2.11 Samples tables**

Will offer users samples table to manage their time in a different way.

**2.2.12 Search**

The search function offer users the ability to search for to-do list tables by its name.

**2.2.13 update account information**

The update account information function gives account members access to edit their stored information.

**2.2.14 Account logout**

The account logout function allows account members to exit their account for security purposes.

**2.2.15 Help**

The help function gives the user an overview of how to use the different functions listed above.

**2.3. User Characteristics**

Users of the website must know how to navigate in a application.

**2.4.Constraints**

Our application doesn’t support web browser and system logs out user after a ten minute inactivity period.

**2.5. Assumptions and Dependencies**

Since the TTM is accessible without the Internet, it is assumed that the end user has a mobile (ios or android) to download the application through app store or Google play.

**2.6. Apportioning of Requirements**

The future version of the system that users can communicate with each other and have a chat.

# Specific Requirements

**3.1. External Interface Requirements**

**3.1.1. System Interfaces**

The system will interface with inventory database via an ORACLE connection and programming language is java.

**3.1.2. User Interfaces**

The system will provide the ability for customers to access the TTM. There will be one type of users.

Customer: must be required to login at all times in order to perform any feature in the app. Once logged in will be able to add tasks, add to-do list tables and make any changes to their personal online account.

**3.1.3. Hardware Interfaces**

There are no special hardware interface requirements

**3.1.4. Software Interfaces**

There are no special software interface requirements.

**3.1.5. Communication Interfaces**

There are no special communication interfaces requirements.

**3.2. Functional Requirements**

Stimulus: Click "Register" Button: Account Registration

1. The system allows a non-registered user to create an account.

2. The system requires the following information from the user: Name, and email.

3. The system asks the user for a username and password.

4. The system confirms the username and password are acceptable.

5. The system stores the information in the database.

Stimulus: Click "Login" Button: Account Login

1. The system allows a registered user to log-in to their account.

2. The system requires a username and password from the user.

3. The system will verify the username and password, and the user will be considered “logged-in”.

Stimulus: Click "Add task" Button:

1.The system allows a registered and logged-in user to add tasks.

2.The system displays the checkbox set reminder, if the user wants a reminder for the specific task.

3.The system displays the tasks in order in the home page.

Stimulus: Click "Delete Task" button:

1. The system allows a registered and logged-in user to remove any unwanted task from home page.

2. The system provides the user a way to select one of the tasks for deletion.

3. After the user has indicated the particular task to be deleted from their home page, the display should be updated to show only the tasks remaining in the page.

Stimulus: Click "Update Task" Button:

1.The system allows a registered and logged-in user to update any task from home page.

2. The system provides the user a way to select one of the tasks for updating.

3. After the user has indicated the particular task to be updated from their home page, the display should be updated to show only the updated tasks in the home page.

Stimulus: Click "Add to-do list table" Button:

1.The system allows a registered and logged-in user to add to-do list table.

2.The system displays a new table to add from previous tasks (which display in the home page) or new tasks.

Stimulus: Click "Delete to-do list table" Button:

1. The system allows a registered and logged-in user to remove any unwanted table.

2. The system provides the user a way to select one of the table for deletion.

3. After the user has indicated the particular table to be deleted, the display should be updated to show only the tables remaining in the page.

Stimulus: Click "Update To-do list table" Button:

1.The system allows a registered and logged-in user to update any table.

2. The system provides the user a way to select one of the table for updating.

3. After the user has indicated the particular table to be updated , the display the updated table.

Stimulus: Click "Activities to do" Button:

After creating to-do list table system will offer users activities to do in their spare time.

Stimulus: Click "Samples table" Button:

After creating to-do list table system will offer users sample tables in a different way.

Stimulus: Click "Search" Button:

1. The system allows a user to search for to-do list tables by its name.

2. The search results will be shown above the page.

Stimulus: Click "Update Account Information" Button:

1. The system allows a user to update the information in their account.

2. The user will be allowed to view and change their username and email.

3. The user shall be able to change their password by entering the old one once, and a new one twice.

Stimulus: Click "Logout" Button:

1. The system allows the registered and logged-in user to exit his/her account, so that access to operations requiring a user to be logged in are now disabled.

Stimulus: Click "Help" Button:

1. The system allows the user to view an overview of how to used the various operations defined above.

2. The system must allow the user to select one of the operations by name.

3. The system shall then display information on how to use that operation.

**3.3. Non-Functional Requirements**

|  |  |
| --- | --- |
| 1. Reliability | * Enable backup of data so information is recoverable in the event of a system or hardware failure * . Be able to reliably perform input tasks within an appropriate amount of time with resistance to failure * Be deployable in an environment with average or irregular internet connectivity * Allow for devices with low bandwidths or irregular connectivity |
| 1. Usability | * **Provide a pleasing and satisfying interaction for the user ( look and feel and user friendliness) .** * **Enable easy data entry that is organized and easily disseminated .** * **. Support real time data entry validation and logic to prevent data entry errors from being recorded .** * **Allow users to easily locate functions and features with limited data clicks .** |
| 1. Maintainability | * **Have adequate support resources available to ensure scalability and sustainability .** * **Include an administrator content control system .** * **Background support for repair or upgrade of the solution including automatic updates that do not, or minimally, interrupt delivery of services .** |
| 1. Data Base consistency | **The new creations, changes or deleting operations should be recorded on the database at the moment.** |
| 1. Multi user | **The system should allow the interaction of two or more users at the same time.** |
| 1. Intuitive | **The user may be able to use all the system’s functionality in an intuitive way** |
| 1. Privacy and Security | * **Allow administrator controls to establish unique user logins for each user and establish access privileges and priorities based on user role .** * **Support administrator controlled data access feature capabilities ( viewing, entry, editing, auditing, and deleting ).** * **Create an automated time stamped audit trail record on each unique record to trace and track changes to data by users (updates, deletions, additions) .** * **Provide flexible password control to users .** * **. Prevent unauthorized access to personal health information .** |

**3.3. Performance Requirements**

The performance requirements are as follows:

• System login/logout shall take less than 5 seconds.

• Searches return results within 10 seconds.

**3.4. Logical Structure of the Data**

**3.4.1. Data Model**

The following diagram describes the classes and attributes of data.

