Software Requirements Specification

for

Here I Am !!!!

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

A personal assistant software can come handy in managing the schedule, documents, photos and what not. This particular software **Here I Am** enables the user to create a personal dashboard which helps him/her manage his/her schedule with ease -- allows the user to keep note of upcoming events, add media files and documents required as per the schedule and search the information regarding the same on the web. Moreover, it allows the user to keep a track of the events he/she has attended (history).

1.2 Document Conventions

There are no document conventions used as such. Any concerned person using this document should be able to understand it with ease.

1.3 Intended Audience //and Reading Suggestions

Anyone who is willing to have a personal assistant and desire a customized experience is welcome to use this system.

1.4 Product Scope

This software takes in the personal data, educational details and the professional information as input and renders the details in the form of a resume as the output. This software also allows the user to store his/her schedule and get a notification for an event as specified by the user. This product helps the user in maintaining a schedule, keeping track of activities and tasks while providing the user a friendly interface and thus acting as a personal assistant worth having.

1.5 References

SRS IEEE TEMPLATE is used to construct this Document.

2. Overall Description

2.1 Product Perspective

Here I am is a new, self-contained product that aims to render its users personal assistance by helping them to manage their schedule, keep track of upcoming activities and tasks, storing media files and other documents according to the dates they will be required on.

2.2 Product Functions

- **General information** : This option takes the basic input of the user. It helps get the information about yourself like your personal data(generally the information which you give in social networking sites). This general information can be broken up like
    - **Personal data** : Name, sex, date of birth, email id, phone number, address, likes , dislikes etc.
    - **Education** : User's educational background.
    - **Professional information** : Basic information about user's profession. Name of the organization, your designation, role etc.
    - **Output** : Based on the detail information about the user the application should generate the documented personal details like CV for that user

- **Reminder** : User can store his/her important schedule and gets the alert or notification of it.
    - **Input** : User should have the option to enter the important dates,time and the brief about the event and save it.
    - **Output** : User can search a particular date and see if there is any schedule for that date.
- **Other Features**
    - User can search the information in web.
    - User can upload files, pictures etc for future work. User can access those files or picture later.
    - Tracks the past records of user's meeting activities, so that user can see the past records as well.
    - Option to take a note of content of any conversation or meeting and save it to file. He or she can able to access those files in future.
    - Option to share one's schedule of a particular date or time with others using their email or phone number.

2.3 User Classes and Characteristics

- **Students** : The users who are attending a regular school/college/university.
    - Any user belonging to this category should be able to upload his/her academic time table to the system and the system should add the events corresponding to the time table to the schedule till the date the user wants to.
- **Employees** : The users who are accustomed to a paid job.
- **Businessmen** : The users who work in commerce, specially on an executive level.
- **Other Professionals and Non-Professionals** : Any other person who wishes to avail the benefits of this software.

2.4 Operating Environment

This will be a web based system. It will have a server that will actually perform all the functions and will store the customizable details of the user. The user end will simply be a graphical interface.

2.5 Design and Implementation Constraints

Currently, the notification can be sent on the desktop (on which the browser to use the webapp is there). Later on, it can be expanded to include cell phone notifications also.
Also, the student category users need to upload their time tables manually. Later on, images and pdfs can be considered as an option. The resume can be downloaded only in pdf format. The maximum total size of all the documents that are uploaded by a user is 50 Megabytes.

2.6 User Documentation

Online help and tutorials regarding the software will be available.

2.7 Assumptions and Dependencies

It is assumed that the user will have the basic resources required for this software, this includes :

- Active Internet Connection
- A browser to access internet
- A desktop system or a cell phone to work on

Other than these, the software depends on an email software, which is required in order to share schedule with other users.

3. External Interface Requirements

3.1 User Interfaces

There will exist an interactive Graphical User Interface. Text boxes and button events will be created where ever possible. All errors to be displayed using dialog boxes. All the main menu and settings options such as account settings, storage management etc. will always be available to the user. Most of the button events will have additional selections to be made, this will be done through an interactive dialog box.

3.2 Hardware Interfaces

The server will have decent processing unit (6 cores at 3 GHz average clock speed) and a good graphical processing unit to enable efficient and fast computation of a few modules. The user

side need to be at all sophisticated. Any device with an internet connectivity and internet browser will be suitable for using the system.

3.3 Software Interfaces

The Graphical user interface will be constructed upon HTML5, CSS and JavaScript. The backend will be made using the python framework Flask and the server will be hosted on Heroku.

3.4 Communications Interfaces

The communication interfaces include e-mail and web browser. E-mail is required for carrying out the necessary communications with the user and the web browser is required to send the notifications to the user.

4. System Features

4.1 Creating an Account

4.1.1 Description and Priority

This is the first step for any user to start using these services. The user needs to create an account by signing up to these services.

4.1.2 Stimulus/Response Sequences

User has to input his personal, educational and professional details. The system will create a space for the user along with his information.

4.1.3 Functional Requirements

- Req 1: Ask for user details.
- Req 2: Allocate space in the server memory.
- Req 3: A function to provide a secure username (unique) and password to the user.
- Req 4: A function to provide an extension to keep the user logged in.
- Req 5: A function to create a cv for the user and personalizing his dashboard for him

4.2 Scheduling Appointments

4.2.1 Description and Priority

This is the primary task of our system. It stores all our appointments dynamically and keeps us updated about our engagements.

4.2.2 Stimulus/Response Sequence

User has to input his appointments to the system. The system reminds the user on the morning of his appointment or any other specified time.

4.2.3 Functional Requirements

- Req 1: User enters his appointment details with time,place and objectives. Optionally user can input any preferred time for notification.
- Req 2: User also classifies the meeting into work, fun , exercise , etc
- Req 3: System updates the user's calendar filling all the entered details
- Req 4: System sends a text notification to the user's desktop on the specified time(if any) or on the morning of the specified date.
- Req 5: User should be able to access this calendar anytime he requires.

4.3 Uploading Files

4.3.1 Description and Priority

User is able to share some photos, text documentation, songs with his system which he can access later. The maximum total size of all the files that are uploaded is 50 Megabytes.

4.3.2 Functional Requirements

- Req 1:The user needs to upload the files to the system which he wants to store.
- Req 2:System stores the files in the memory assigned to the user
- Req 3:User can access these files anytime and even download them.

4.4 Tracking Meetings

4.4.1 Description and Priority

The system keeps a record of all our previous meetings and we can access them. User can add footnotes/minutes for important meetings.

4.4.2 Functional Requirements

- Req 1: User provides footnotes or minutes at the end of a meeting
- Req 2: System keeps these information in it's system for about an year.
- Req 3: User can access these footnotes within this time to get important information.
- Req 4: After about a year system automatically removes the appointment data.

4.5 Creating Statistics

4.5.1 Description and Priority

System takes the data provided for the various details and classifies them into clusters of work, fun, fitness, exercise ,etc

4.5.2 Stimulus/Response Sequence

System produces various charts and statistics to show the percentage activities of these clusters.

4.5.3 Functional Requirements

- Req 1: System takes the scheduling data in as input
- Req 2: The system organizes the data into various clusters of work,fun,fitness, exercise,leisure,etc.
- Req 3: System takes into account the time spent into these activities and prepares the corresponding statistics.
- Req 4: The system also warns the user in case of excessive indulging in one of the activities.

4.6 Searching Web/Suggestion System

4.6.1 Description and Priority

This is a utility service for the user. User can ask the system to search anything on the web and the system provides it. The user can also get advice for restaurants, hotels, movies,etc.

4.6.2 Stimulus/Response Sequence

User can search for handy keywords.

4.6.3 Functional Requirements

- Req 1: User gives the input to the user to search for something.
- Req 2: System searches the web for the information and produces the corresponding result.
- Req 3: System has an additional adviser feature which user can invoke to get good restaurants,movies,hotels,etc.

4.7 Maintaining accounts

4.7.1 Description and Priority

System maintains the monthly expenditure of the user .System cross-checks the expenditure with monthly limit and warns the user in case of excessive spent.

4.7.2 Stimulus/Response Sequence

User updates his monthly expenditure limit and updates the data every time he spends money.

4.7.3 Functional Requirements

- Req 1: User shares the monthly expenditure limit with the system
- Req 2: User updates his account every time a transaction is done.
- Req 3: System takes into account all the calculation and displays the account state in the form of a meter instead of an exact amount on request.
- Req 4: System sends an alert to the user if he is running low on account.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

The response of server should be fast (within 2 seconds) when coupled with high speed internet. The photos uploaded to the system must be compressed to 3 mb limit before being uploaded to maintain system space.

5.2 Safety Requirements

There is no risk of any threat that can be issued by the system. Since it is a web based application, there will definitely be chances of internet based threats. These need to be minimized as much as possible. A virus scanner will scan all the documents and photos before a user can upload it.

5.3 Security Requirements

All the personal data stored for a particular user will be encrypted by using the standard encryption algorithm.This needs to be protected from any possible data theft.

5.4 Software Quality Attributes

The software must work with at least chrome and firefox browser. User must have a fast internet connection. Software must operate on both windows and ubuntu operating systems.

5.5 Business Rules

This system is going to be rolled out free. Though to sustain our project we will be endorsing paid ads on side panes. Also the voice activation feature will be paid.

6. Goals of Implementation

6.1 Voice activation

As an additional feature we want to make the system voice activated. The system should take input as speech and give an audio output. This could help visually challenged people if implemented.

6.2 Connectivity between different user

Different users of our services must be connected to each other through their own personal assistants. This allows them to book appointments with each other through this software without contacting the person directly.