
Software Requirements Specification

for

Here I am...

Version-1.0 approved

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Table of Contents

| | |
|--|-----------|
| Table of Contents..... | ii |
| Revision History..... | ii |
| 1. Introduction..... | 1 |
| 1.1 Purpose..... | 1 |
| 1.2 Intended Audience and Reading Suggestions..... | 1 |
| 1.3 Product Scope..... | 1 |
| 2. Overall Description..... | 1 |
| 2.1 Product Functions..... | 1 |
| 2.2 Operating Environment..... | 2 |
| 2.3 Design and Implementation Constraints..... | 2 |
| 2.4 User Documentation..... | 2 |
| 3. External Interface Requirements..... | 2 |
| 3.1 User Interfaces..... | 2 |
| 3.2 Software Interfaces..... | 3 |
| 3.3 Communications Interfaces..... | 3 |
| 4. System Features..... | 3 |
| 4.1 Login..... | 3 |
| 4.2 Reminder..... | 3 |
| 4.3 Tracker..... | 4 |
| 4.4 Web search..... | 4 |
| 4.5 Notes..... | 4 |
| 5. Other Nonfunctional Requirements..... | 5 |
| 5.1 Performance Requirements..... | 5 |
| 5.2 Safety Requirements..... | 5 |
| 5.3 Security Requirements..... | 5 |
| 5.4 Portability Requirements..... | 5 |

Revision History

| Name | Date | Reason For Changes | Version |
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| Siddharth Jain | 27/01/17 | Here I am (a virtual assistant) – First Revision | Version-1.0 |
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1. Introduction

Technology is converging the globe onto a common platform with exponentially increasing dependency of mankind on automated systems. Increased working hours and stringent official deadlines compel people to spend majority of their time in office or while commuting. In view of the above, it is of utmost importance that the user gets assistance in his daily tasks. "Here I am" is a virtual assistant that provides assistance to the user.

1.1 Purpose

The purpose of "Here I am" is to provide the users with maximum virtual assistance. The user can create his portal which will act his own virtual assistant.

1.2 Intended Audience and Reading Suggestions

The intended audience for this document is project developers and users who wish to view the project requirements and specifications. The rest of the documents has been highlighted the overall description, functional requirement, non-functional requirement, deployment strategy.

1.3 Product Scope

The purpose is to create a Java based Virtual Assistance Web Application. This application helps the users to create a profile of them in which they can store their personal information and photos for future references. User can store his important schedule and get the alert or notification of it. User can search the information in web. It tracks the past records of user meeting activities, so that user can see the past records as well. Options to take a note of content of any conversation or meeting and save it in a file. He will be able to access those files in future.

2. Overall Description

2.1 Product Functions

- Login :
Every user will have his own account in the software which will contain all the information of his profile.
 - Input :
 - Profile Input :
 - 1.) Personal data: Name, sex, date of birth, email id, phone no., address, likes ,dislikes etc.
 - 2.) Education: User's educational background.

3.) Professional information: Basic information about user's profession.

Name of the organization, your designation, role etc.

4.) Upload files, pictures etc. for future work. User can access those files or picture later.

- Profile 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.
- Tracker : Tracks the past records of user are meeting activities, so that user can see the past records as well.
- Web Search :Search the information in web.
- Notes : 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.

2.2 Operating Environment

Windows and Linux Operating System are the best as they both support Java. The application is developed using JAVA JDK 1.8 and MySQL Database.

2.3 Design and Implementation Constraints

The databases referred are online databases as this software is a web application.

2.4 User Documentation

All the documents regarding the working of the software will be available in a read me file of this software.

3. External Interface Requirements

3.1 User Interfaces

The login interface will be the first interface the user will encounter ,it will contain the options for login, making a new account and forget password. The profile interface will contain all the features. The GUI will be the same for different users. The web search will be located at the top of each page of the software. The add "notes" option will be located just below the web search in every page. The first page will show the user information details, the bottom of the page will have an option to generate the personal information document. The reminder page will contain all the tracker information and input for the reminders will be taken in this page.

3.2 Software Interfaces

*The application is developed using JAVA JDK 1.8 and MySQL Database.
The reminder database will be cached to the system every time it is updated.
The System clock is required to be set to the time available on the internet.*

3.3 Communications Interfaces

*At the time the user set for the reminder ,user is notified.
Internet connection is required for accessing information.*

4. System Features

Initially user has to feed the general information of themselves like age, sex, profession, hobby, education, information about work etc. Based on these input data, it helps user to maintain his/her daily activity, schedule, appointment etc.

4.1 Login

4.1.1 Description and Priority

*At opening the software ,an account is required to direct the user to his portal.
If the user is new he can register make a portal.*

4.1.2 Stimulus/Response Sequences

The login page will take the user to his profile page if the required information matches to the information given by the user at the time of registration.

4.1.3 Functional Requirements

*The profile page of the user contains the user information. The user is prompted to fill up the information to maintain his daily schedule.
The profile page contains all the features of the software which will be available to him after he finishes entering the required information.*

REQ-1: Profile Database : A database of the profiles of each user is required.

4.2 Reminder

4.1.1 Description and Priority

*The reminders helps the user to get notified of any upcoming event.
Reminders are the basic features of the software.
Even when the system is offline the user will be alerted for the reminder he set.*

4.1.2 Stimulus/Response Sequences

The input is taken from the user to set a reminder ,which is stored and at the time the reminder is set for the user is notified.

4.1.3 Functional Requirements

The profile page of the user contains the user information. The user is prompted to fill up the information to maintain his daily schedule.

The profile page contains all the features of the software which will be available to him after he finishes entering the required information.

REQ-1: System-Clock :To match the time a reminder is set for and notify the user.

REQ-2: Reminder Database :All the reminders are stored. The Tracker uses this information to keep track of all the activities of the user.

REQ-3: Cache :To have offline data available for the software to give notifications at the reminder times ,the system will have to cache the new entries in reminder database.

4.3 Tracker

4.1.1 Description and Priority

Tracker is required to maintain a record of all the past activities of the user.

The user can see all of his previous engagements in this feature

4.1.2 Stimulus/Response Sequences

The Reminder database keeps all the information for tracker. This data is shown to the user in appropriate style (eg – graphs, charts, etc)

4.1.3 Functional Requirements

REQ-1: Reminder Database :All the reminders are stored. The Tracker uses this information to keep track of all the activities of the user.

4.4 Web Search

4.1.1 Description and Priority

Allows the user to search the internet for any query or input.

4.1.2 Stimulus/Response Sequences

Redirects the user to Google search engine.

4.5 Notes

4.1.1 Description and Priority

Allows the user to make quick notes on any conversation or meeting and see it at any time.

4.1.2 Stimulus/Response Sequences

The notes are saved in a database

4.1.3 Functional Requirements

REQ-1: Note -Database :The notes are saved in a database.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

The search result would depend on the Internet speed.

The System Clock should match the global time, any error in this time will lead to reminders being a failure when the system is offline.

5.2 Safety Requirements

The reminder data should not be overwritten on.

If the user changes any data, the changes should be updated in the database.

5.3 Security Requirements

The user information should be secured including his reminder database. Only the user can see his profile.

5.4 Portability Requirements

Completely portable allowing remote access to the user at the place of interest irrespective of his own location just the connection of internet is required.