

**COMSATS University Islamabad,   
Park Road, Chak Shahzad, Islamabad Pakistan**

**Software Requirements Specification**

**For**

**Style me**

(*An android application*)

Version 1.0

***By***

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## Introduction

This document provides brief overview for System specification requirements for the AR based daily look recommendation system in smart phones. It contains document purpose, product scope, audience, definition and overall view of the product.

## Document Purpose

This **SRS** document contains the software functional requirement and its non-functional requirement. It will provide a brief overview of use-case, which will provide ease of understanding of software for others. It contains performance and minimum requirements that are needed to run the application smoothly on smart phone. Our application will be developed for android, but this document will allow ease of importing it.

## Product Scope

Self-grooming is a necessity in the modern era and my application is contributing in fulfilling that necessity in a form of a recommendation system. Style me solves the problem of what to wear at what event. This application is a recommendation system that gives suggestions for daily clothes to wear along with the suitable accessories. The user of this application will be allowed to login with a unique ID and a new profile is created in case of a new user. The user will enter additional information while signing up such as his favorite color, personality, and gender. The user would be asked about the date and event and in return a look would be suggested for the user considering the weather and the user’s demand. The user would select a look out of the suggested ones. If the similar look can be created from the user’s wardrobe then he would wear it, otherwise he would be able to shop or exchange his clothes with other users of the application by giving them the description and photo of the items to be exchanged. If the look cannot be created from the wardrobe then the user can add whatever he wears to help in maintaining the history of looks worn. The looks can be marked favorite to be viewed in augmented reality and the saved looks or the scheduled ones can be viewed on calendar. For more inspiration and knowledge, the user can read articles on clothing and fashion.

## Intended Audience

This document is intended for developers, users and testers.

It will help developers to create and develop the FRs for the system. User can view use case as a guide to understand the and learn the application. Testers can use the document to validate the FRs based on the dependencies on the software.

## Definitions, Acronyms and Abbreviations

Following are the definitions, acronyms and abbreviations used:

**Table 1: Definitions, Acronyms and Abbreviations**

|  |  |
| --- | --- |
| **Term** | **Definition** |
| User | Someone who will interact with the application. |
| SRS | Software Requirement Specification |
| Testers | Someone who will test modules of the application |
| Developers | Someone who will code the application |
| AR | Augmented Reality |

## Overall Description

This section of the **SRS** describes the product perspective and in which environment it will be deployed on. It also contains software assumption and dependencies that may help the developers in coding. It will also help testers to test the software based on those dependencies. This section user characteristics and general constraint on the system.

## Operating Environment

The application will be deployed on android operating system. It will support from android 5.0 and on-wards. It requires android phone, which support hardware acceleration in order to run the AR smoothly. .

## General Constraints

The application will only run android phone that runs on android 5.0 or greater. It will not support android version less than this. This application is also limited to android only, so it will not support other operating systems like IOS or windows.

## Requirement Elicitation Techniques.

Following are the requirement elicitation Techniques:

* **Brainstorming Session:** For gathering and creating new ideas for the document.
* **Document Analysis:** To gather information for Functional Requirements and Non-functional Requirements.

## Use Cases.

Following are the use cases:

**Module 1: User Profiling**

|  |  |  |
| --- | --- | --- |
| **Use Case ID** | **Use Case Title** | **Use Case Description** |
| **M1-UC1** | Sign In | Provide credentials to enter the application. |
| **M1-UC2** | Sign Up | To register for application. |
| **M1-UC3** | Forgot Password | To reset the password of application if you forgot. |
| **M1-UC4** | Remember me | To remember the password and username. |
| **M1-UC5** | Change Password | To reset the password of application. |
| **M1-UC6** | Add profession | To add profession. |
| **M1-UC7** | Edit information | To change the personal information entered. |
| **M1-UC8** | View information | To view the information entered. |
| **M1-UC9** | Logout | To logout of the account. |

**Module 2: Data Collection and Pre-Processing**

|  |  |  |
| --- | --- | --- |
| **Use Case ID** | **Use Case Title** | **Use Case Description** |
| **M2-UC1** | Upload Document | User can upload the document on which data science tools will be used. |
| **M2-UC2** | Edit Document | User can edit the text of document. |
| **M2-UC3** | Delete document | User can delete the content of document which he/she uploaded |
| **M2-UC4** | View Cleaning tools | User will be given different data cleaning techniques to clean document. |
| **M2-UC5** | Removal of extra spaces | User can get rid of any extra spaces in the document. |
| **M2-UC6** | Convert Case | User can convert text between different letter cases. |
| **M2-UC7** | Lowercase | User can convert text into lowercase. |
| **M2-UC8** | Uppercase | User can convert text into uppercase |
| **M2-UC9** | Proper case | User can convert text into proper case. |
| **M2-UC10** | Remove non alphabetic characters | User can remove words with special characters from the document. |

**Module 3: Development and Integration of Data Science Tools**

|  |  |  |
| --- | --- | --- |
| **Use Case ID** | **Use Case Title** | **Use Case Description** |
| **M3-UC1** | View Toolkit | User can view and select different data science tools. |
| **M3-UC2** | Text Summarization | User can get the summary of the document he/she uploaded. |
| **M3-UC3** | Topic Modeling | User can discover topics that occur in a collection of documents. |
| **M3-UC4** | Upload more documents | User can upload more topics to apply topic modeling. |
| **M3-UC5** | Sentiment Analysis | User can detect polarity of the document either its positive or negative. |

**Module 4: Report**

|  |  |  |
| --- | --- | --- |
| **Use Case ID** | **Use Case Title** | **Use Case Description** |
| **M4-UC1** | Get Report | User can extract the information he/she wants to extract from uploaded document. |
| **M4-UC2** | Add Description | User can add description of the report that is created. |
| **M4-UC3** | Save Report | User can save the report. It will be saved in database. |
| **M4-UC4** | Delete Report | User can delete the report from database. |
| **M4-UC5** | View Report | User can view the list of reports that have been created from his/her account. |
| **M4-UC6** | Download Report | User will be able to download the report. |

**Module 5: Data Repository Management and Sharing**

|  |  |  |
| --- | --- | --- |
| **Use Case ID** | **Use Case Title** | **Use Case Description** |
| **M5-UC1** | Store document in repository | User can store uploaded documents in repository. |
| **M5-UC2** | Download document | User can download the uploaded document. |
| **M5-UC3** | Edit Document | User can convert document into editable form. |
| **M5-UC4** | Share document | User can share document with other users. |

## Use Case(s) Diagram:

Following are the use case diagrams:

A close up of text on a white background

Description automatically generated

**Figure 1: Use case Diagram (1/2)**

A close up of a map

Description automatically generated

**Figure 2: Use case diagram (2/2)**

## Use Case(s):

## Use Case(s) (Tabular):

The tabular forms of use cases are given below:

**Module 1: User Management**

1. Sign In

|  |  |
| --- | --- |
| **Use Case ID:** | UC 1.1 |
| **Use Case Name:** | Log In |
| **Actors:** | User |
| **Description:** | A form will appear. User needs to enter username and password to Log In to the website. |
| **Level:** | High |
| **Trigger:** | User will click the **Log in button** |
| **Preconditions:** | 1. Internet should be available. 2. User should already have an account for the website |
| **Includes:** | UC-1.2 |
| **Normal Flow:** | 1. User opens the web application. 2. User clicks the log in button. 3. User enters his/her username and password. 4. User then clicks on login button in order to access the web application. |
| **Alternative Flows:** | None |
| **Exceptions:** | 1. User enters the wrong password or username. 2. User is unable to connect to the server. |
| **Post conditions:** | 1. User logged in to website. 2. User moves to home page of website. |
| **Special Requirements:** | None |
| **Assumptions:** |  |
| **Notes and Issues:** | None. |

1. Sign Up

|  |  |
| --- | --- |
| **Use Case ID:** | UC 1.2 |
| **Use Case Name:** | Sign Up |
| **Actors:** | User |
| **Description:** | A form will appear. User needs to input username, password, email, profession and date of birth. |
| **Level:** | High |
| **Trigger:** | User starts the application and selects sign up button |
| **Preconditions:** | 1. User should run the application. 2. User needs to select sign up button. |
| **Includes:** | None |
| **Normal Flow:** | 1. User starts the application. 2. User selects the sign-up button. 3. User enters a username, password, email, profession and date of birth. 4. User then clicks the Create Account button. |
| **Alternative Flows:** | None |
| **Exceptions:** | 1. User enters username that is already in used. 2. User is unable to connect to the server. |
| **Post conditions:** | 1. User will be able to create an account successfully. 2. User can Sign-in to application. |
| **Special Requirements:** | The size of password must be greater than six. |
| **Assumptions:** |  |
| **Notes and Issues:** | Size of password and username.  Special characters may or may not be allowed |

1. Remember me

|  |  |
| --- | --- |
| **Use Case ID:** | UC 1.3 |
| **Use Case Name:** | Remember me |
| **Actors:** | User |
| **Description:** | A checkbox enables user to save the password for the future. |
| **Level:** | Low |
| **Trigger:** | User clicks the checkbox of remember me. |
| **Preconditions:** | 1. User should run the application 2. User has to select the sign in button 3. User has to enter username, email and password. |
| **Includes:** | UC 1.2 |
| **Normal Flow:** | 1. User starts the application. 2. User selects the sign in button. 3. User enters username, email and password. 4. User checks the checkbox of remember me. |
| **Alternative Flows:** | None |
| **Exceptions:** | 1. User does not have an account 2. User is unable to connect to the server. |
| **Post conditions:** | 1. User can select the login button |
| **Special Requirements:** | None |
| **Assumptions:** |  |
| **Notes and Issues:** | Size of password. |

1. Forgot password

|  |  |
| --- | --- |
| **Use Case ID:** | UC 1.4 |
| **Use Case Name:** | Forgot password |
| **Actors:** | User |
| **Description:** | A form will appear. User needs to input recovery email that user provided in sign up. A reset password link will be provided in that link. User can reset his/her password from that link. |
| **Level:** | Medium |
| **Trigger:** | User starts the application and selects forgot password button |
| **Preconditions:** | 1. User should have an account 2. User should have an internet access. |
| **Includes:** | UC 1.2 |
| **Normal Flow:** | 1. User starts the application. 2. User selects log in button 3. User enters username. 4. User selects the forgot password button. 5. User enters an email address. 6. User then clicks the OK button |
| **Alternative Flows:** | None |
| **Exceptions:** | 1. User does not have an account 2. User is unable to connect to the server. |
| **Post conditions:** | 1. User has provided new password for the account. |
| **Special Requirements:** | The user should enter a working email address. |
| **Assumptions:** |  |
| **Notes and Issues:** | Size of password. |

1. Change Password

|  |  |
| --- | --- |
| **Use Case ID:** | UC 1.5 |
| **Use Case Name:** | Change password |
| **Actors:** | User |
| **Description:** | A form will appear. User needs to provide the old password and a new one. The new password should follow the rules. |
| **Level:** | Medium |
| **Trigger:** | User goes to the settings and selects change password button |
| **Preconditions:** | 1. User should have logged in. 2. User must remember the old password 3. User should have an internet access. |
| **Includes:** | UC 1.1 |
| **Normal Flow:** | 1. User starts the application. 2. User goes to profile and then settings. 3. User enters old password and new password. 4. User then clicks the Done button. |
| **Alternative Flows:** | None |
| **Exceptions:** | 1. User does not have an account. 2. User is unable to connect server. 3. User doesn’t remember old password. |
| **Post conditions:** | 1. User will log in again with the new password. |
| **Special Requirements:** | The new password must follow the standards. |
| **Assumptions:** |  |
| **Notes and Issues:** | Size of password. |

1. Add information

|  |  |
| --- | --- |
| **Use Case ID:** | UC 1.6 |
| **Use Case Name:** | Add Information |
| **Actors:** | User |
| **Description:** | A form will appear to add personal information. |
| **Level:** | Medium |
| **Trigger:** | User selects create account button |
| **Preconditions:** | 1. User must be logged in to the application 2. User must select create account button. |
| **Includes:** | UC 1.2 |
| **Normal Flow:** | 1. User opens the application. 2. User selects the sign-up button. 3. User signs up 4. User clicks create account button. 5. The form to add information appears. |
| **Alternative Flows:** | None |
| **Exceptions:** | 1. Application is unable to fetch profile information from the server. |
| **Post conditions:** | 1. User can view their profile information. |
| **Special Requirements:** | None |
| **Assumptions:** |  |
| **Notes and Issues:** | None. |

1. Edit information

|  |  |
| --- | --- |
| **Use Case ID:** | UC 1.7 |
| **Use Case Name:** | Edit Information |
| **Actors:** | User |
| **Description:** | A form filled earlier will appear to change the information |
| **Level:** | Medium |
| **Trigger:** | User selects edit information button from settings |
| **Preconditions:** | 1. User must be logged in to the application 2. User must enter information |
| **Includes:** | UC 1.2, UC-1.6 |
| **Normal Flow:** | 1. User opens the application. 2. User logs in 3. User goes to the settings from profile. 4. User then selects the account information button. 5. User then selects edit information button. 6. User edits information and selects done button. |
| **Alternative Flows:** | None |
| **Exceptions:** | Application is unable to fetch profile information from the server. |
| **Post conditions:** | User can view his/her profile information. |
| **Special Requirements:** | The information must be valid. |
| **Assumptions:** |  |
| **Notes and Issues:** | None. |

1. View information

|  |  |
| --- | --- |
| **Use Case ID:** | UC 1.8 |
| **Use Case Name:** | View Information |
| **Actors:** | User |
| **Description:** | A form filled earlier will appear. |
| **Level:** | Medium |
| **Trigger:** | User selects view information from settings |
| **Preconditions:** | 1. User must be logged in to the application 2. User must enter information |
| **Includes:** | UC 1.1, UC-1.6 |
| **Normal Flow:** | 1. User opens the application 2. User signs in 3. User goes to the settings from profile. 4. User then selects the account information button. 5. User then selects view information button |
| **Alternative Flows:** | None |
| **Exceptions:** | Application is unable to fetch information from the server. |
| **Post conditions:** | The user will be able to edit information if it is wrong. |
| **Special Requirements:** | None |
| **Assumptions:** |  |
| **Notes and Issues:** | None. |

1. Log out

|  |  |
| --- | --- |
| **Use Case ID:** | UC 1.9 |
| **Use Case Name:** | Log out |
| **Actors:** | User |
| **Description:** | User would be able to logout from his account |
| **Level:** | High |
| **Trigger:** | User selects logout button from the profile |
| **Preconditions:** | 1. User goes to the profile 2. User needs to select logout button |
| **Includes:** | UC 1.1 |
| **Normal Flow:** | 1. User opens the application 2. User logs in 3. User goes to profile 4. User selects logout button. |
| **Alternative Flows:** | None |
| **Exceptions:** | User is unable to connect to server. |
| **Post conditions:** | User can login in again to use the application |
| **Special Requirements:** | None |
| **Assumptions:** |  |
| **Notes and Issues:** | None. |

**Module 2: Data Collection and Pre-Processing**

1. Upload Document

|  |  |
| --- | --- |
| **Use Case ID:** | UC 2.1 |
| **Use Case Name:** | Upload Document |
| **Actors:** | User |
| **Description:** | User can upload document of any type. |
| **Level:** |  |
| **Trigger:** | User clicks/taps on upload document. |
| **Preconditions:** | 1. User must be logged in to the application. |
| **Includes:** |  |
| **Normal Flow:** | 1. User logs in to application. 2. User clicks on upload document. 3. User selects a document of their choice. 4. User clicks on upload. |
| **Alternative Flows:** | User applies web scraping |
| **Exceptions:** |  |
| **Post conditions:** | 1. The document has been uploaded. |
| **Special Requirements:** |  |
| **Assumptions:** |  |
| **Notes and Issues:** | None. |

1. Edit Document

|  |  |
| --- | --- |
| **Use Case ID:** | UC 2.2 |
| **Use Case Name:** | Edit Document |
| **Actors:** | User |
| **Description:** | User can edit the text of document that is uploaded. |
| **Level:** |  |
| **Trigger:** |  |
| **Preconditions:** | 1. User must have uploaded the document. |
| **Includes:** |  |
| **Normal Flow:** | 1. User uploads a document. 2. User edits the text of document. |
| **Alternative Flows:** |  |
| **Exceptions:** |  |
| **Post conditions:** |  |
| **Special Requirements:** |  |
| **Assumptions:** |  |
| **Notes and Issues:** | None. |

1. Delete Document

|  |  |
| --- | --- |
| **Use Case ID:** | UC 2.3 |
| **Use Case Name:** | Delete Document |
| **Actors:** | User |
| **Description:** | User can delete the uploaded document. |
| **Level:** |  |
| **Trigger:** | User clicks on delete button. |
| **Preconditions:** | 1. Document must be uploaded. |
| **Includes:** |  |
| **Normal Flow:** | 1. User uploads a document. 2. User clicks on delete button. 3. User selects another document to upload. |
| **Alternative Flows:** |  |
| **Exceptions:** |  |
| **Post conditions:** | 1. Document is removed. 2. User uploads another document. |
| **Special Requirements:** |  |
| **Assumptions:** |  |
| **Notes and Issues:** |  |

1. View Cleaning tools

|  |  |
| --- | --- |
| **Use Case ID:** | UC 2.4 |
| **Use Case Name:** | View Cleaning tools |
| **Actors:** | User |
| **Description:** | User can view data cleaning techniques. |
| **Level:** |  |
| **Trigger:** | User clicks on Clean Document. |
| **Preconditions:** | 1. User must have uploaded a document. 2. Document must be in editable form. |
| **Includes:** |  |
| **Normal Flow:** | 1. User uploads a document. 2. User clicks on Clean document. 3. User gets options of different data cleaning techniques. |
| **Alternative Flows:** |  |
| **Exceptions:** |  |
| **Post conditions:** | 1. User selects some data cleaning technique to apply. |
| **Special Requirements:** |  |
| **Assumptions:** |  |
| **Notes and Issues:** | None. |

1. Removal of extra spaces

|  |  |
| --- | --- |
| **Use Case ID:** | UC 2.5 |
| **Use Case Name:** | Removal of extra spaces |
| **Actors:** | User |
| **Description:** | User can remove irrelevant/extra spaces in the document. |
| **Level:** |  |
| **Trigger:** | User selects Remove Extra Spaces from cleaning options. |
| **Preconditions:** | 1. User must upload the document. 2. User must select Clean Data. |
| **Includes:** |  |
| **Normal Flow:** | 1. User uploads a document. 2. User then clicks on Clean Data. 3. User views different data cleaning techniques. 4. User clicks on Remove extra spaces. |
| **Alternative Flows:** |  |
| **Exceptions:** |  |
| **Post conditions:** | 1. User will get the clean document with no extra spaces. 2. User can apply more cleaning options. |
| **Special Requirements:** |  |
| **Assumptions:** |  |
| **Notes and Issues:** | None. |

1. Convert Case

|  |  |
| --- | --- |
| **Use Case ID:** | UC 2.6 |
| **Use Case Name:** | Convert Case |
| **Actors:** | User |
| **Description:** | User can view three convert case techniques. |
| **Level:** |  |
| **Trigger:** | User selects Convert case from options. |
| **Preconditions:** | User must click Clean Data.  User must select Convert Case. |
| **Includes:** |  |
| **Normal Flow:** | 1. User clicks on Clean Data. 2. User gets a list of data cleaning techniques. 3. User then clicks on Convert case. |
| **Alternative Flows:** |  |
| **Exceptions:** |  |
| **Post conditions:** | 1. User can view three convert case strategies.  2. User can select from these options. |
| **Special Requirements:** |  |
| **Assumptions:** |  |
| **Notes and Issues:** | None. |

1. Lowercase

|  |  |
| --- | --- |
| **Use Case ID:** | UC 2.7 |
| **Use Case Name:** | Lowercase |
| **Actors:** | User |
| **Description:** | User can convert text of document into lowercase |
| **Level:** |  |
| **Trigger:** | User selects Lowercase option. |
| **Preconditions:** | 1. User must select Convert Case from data cleaning techniques. |
| **Includes:** |  |
| **Normal Flow:** | 1. User selects Convert case. 2. User then clicks on Lowercase. |
| **Alternative Flows:** | 1. User clicks on Uppercase. 2. User clicks Proper case. |
| **Exceptions:** |  |
| **Post conditions:** | 1. User will get the document with whole text in lowercase. |
| **Special Requirements:** |  |
| **Assumptions:** |  |
| **Notes and Issues:** | None. |

1. Uppercase

|  |  |
| --- | --- |
| **Use Case ID:** | UC 2.8 |
| **Use Case Name:** | Uppercase |
| **Actors:** | User |
| **Description:** | User can convert text of document into uppercase. |
| **Level:** |  |
| **Trigger:** | User selects Uppercase from options. |
| **Preconditions:** | User must select Convert Case from data cleaning techniques. |
| **Includes:** |  |
| **Normal Flow:** | User selects Convert case.  User then clicks on Uppercase. |
| **Alternative Flows:** |  |
| **Exceptions:** |  |
| **Post conditions:** | 1. User will get the document with whole text in lowercase. |
| **Special Requirements:** |  |
| **Assumptions:** |  |
| **Notes and Issues:** | None. |

1. Proper case

|  |  |
| --- | --- |
| **Use Case ID:** | UC 2.9 |
| **Use Case Name:** | Proper case |
| **Actors:** | User |
| **Description:** | User can convert text of document in proper case. |
| **Level:** |  |
| **Trigger:** | User selects Proper case from options. |
| **Preconditions:** | User must select Convert Case from data cleaning techniques. |
| **Includes:** |  |
| **Normal Flow:** | 1. User selects Convert case. 2. User then clicks on Proper case |
| **Alternative Flows:** |  |
| **Exceptions:** |  |
| **Post conditions:** | 1. User will get the document with whole text in proper case. |
| **Special Requirements:** |  |
| **Assumptions:** |  |
| **Notes and Issues:** | None. |

1. Remove non-alphabetic characters

|  |  |
| --- | --- |
| **Use Case ID:** | UC 2.10 |
| **Use Case Name:** | Remove non alphabetic characters. |
| **Actors:** | User |
| **Description:** | User can remove all non-alphabetic characters from the document. |
| **Level:** |  |
| **Trigger:** | User selects Remove special characters option. |
| **Preconditions:** | User must upload a document.  User must select Clean Document. |
| **Includes:** |  |
| **Normal Flow:** | 1. User uploads a document.  2. User selects Clean document.  3. User then clicks the Remove special character button. |
| **Alternative Flows:** |  |
| **Exceptions:** |  |
| **Post conditions:** | User gets the document without any non-alphabetic characters. |
| **Special Requirements:** |  |
| **Assumptions:** |  |
| **Notes and Issues:** | None. |

**Module 3: Development and Integration of Data science tools**

1. View Info

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.1 |
| **Use Case Name:** | View Info |
| **Actors:** | User |
| **Description:** | User can view details about data science tools from info option in navbar. |
| **Level:** | Medium |
| **Trigger:** | User clicks on Info option in navbar to view details about data science tools. |
| **Preconditions:** | 1. User must be logged in. |
| **Includes:** |  |
| **Normal Flow:** | 1. User logs in to the website. 2. User clicks on Info option in navbar. |
| **Alternative Flows:** | None |
| **Exceptions:** |  |
| **Post conditions:** | Information about all data science tools will be displayed on the screen. |
| **Special Requirements:** | None |
| **Assumptions:** |  |
| **Notes and Issues:** | NA |

1. Text Summarization

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.2 |
| **Use Case Name:** | Text Summarization |
| **Actors:** | User |
| **Description:** | User can get summary of text/document that is uploaded. |
| **Level:** | High |
| **Trigger:** | User clicks on Text Summarization from navbar. |
| **Preconditions:** | 1. User must be logged in. |
| **Includes:** |  |
| **Normal Flow:** | 1. User logs in to the application. 2. User selects Text Summarization from navbar. |
| **Alternative Flows:** | None |
| **Exceptions:** |  |
| **Post conditions:** | Text Summarization interface will be displayed. |
| **Special Requirements:** |  |
| **Assumptions:** |  |
| **Notes and Issues:** | NA |

1. Manual Summary

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.3 |
| **Use Case Name:** | Manual Summary |
| **Actors:** | User |
| **Description:** | User can get summary of text/document in specified number of lines. |
| **Level:** | High |
| **Trigger:** | User clicks on Manual button. |
| **Preconditions:** | 1. User must be logged in.   1. User must select Text Summarization. 2. User must have entered text in textbox or uploaded a document. |
| **Includes:** |  |
| **Normal Flow:** | User logs in to the application.  User selects Text Summarization from navbar.  User enters text in textbox or user uploads a document.  User clicks on Manual option.  User enters the number of lines of summary he/she wants.  User clicks Apply. |
| **Alternative Flows:** | None |
| **Exceptions:** |  |
| **Post conditions:** | Summary of document in specified number of lines is displayed. |
| **Special Requirements:** | None |
| **Assumptions:** |  |
| **Notes and Issues:** | NA |

1. Analyze

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.4 |
| **Use Case Name:** | Analyze |
| **Actors:** | User |
| **Description:** | User can get important words of the document in highlighted form. |
| **Level:** | Medium |
| **Trigger:** | User clicks on Analyze button. |
| **Preconditions:** | User must be logged in.  User must select Text Summarization.  User must have entered text in textbox or uploaded a document. |
| **Includes:** |  |
| **Normal Flow:** | User logs in to the application.  User selects Text Summarization from navbar.  User enters text in textbox or user uploads a document.  User clicks on Analyze button.  User clicks Apply. |
| **Alternative Flows:** | None |
| **Exceptions:** |  |
| **Post conditions:** | All the important words in the document are displayed in bold form. |
| **Special Requirements:** | None |
| **Assumptions:** |  |
| **Notes and Issues:** | NA |

1. Automatic Summary

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.5 |
| **Use Case Name:** | Automatic Summary |
| **Actors:** | User |
| **Description:** | User can get automatic summary of text/document. |
| **Level:** | High |
| **Trigger:** | User clicks on Automatic button. |
| **Preconditions:** | 1. User must be logged in.   1. User must select Text Summarization. 2. User must have entered text in textbox or uploaded a document. |
| **Includes:** |  |
| **Normal Flow:** | User logs in to the application.  User selects Text Summarization from navbar.  User enters text in textbox or user uploads a document.  User clicks on Automatic option.  User clicks Apply. |
| **Alternative Flows:** | None |
| **Exceptions:** |  |
| **Post conditions:** | Automatic summary of document will be displayed on the screen. |
| **Special Requirements:** | None |
| **Assumptions:** |  |
| **Notes and Issues:** | NA |

1. Topic Modeling

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.6 |
| **Use Case Name:** | Topic Modeling |
| **Actors:** | User |
| **Description:** | User can discover topics that occur in a collection of documents. |
| **Level:** | High |
| **Trigger:** | User clicks on Topic Modeling from navbar. |
| **Preconditions:** | 1. User must be logged in. |
| **Includes:** |  |
| **Normal Flow:** | 1. User logs in to the application 2. User selects Topic Modeling from navbar. |
| **Alternative Flows:** | None |
| **Exceptions:** |  |
| **Post conditions:** | Topic Modeling interface will be displayed. |
| **Special Requirements:** | None |
| **Assumptions:** |  |
| **Notes and Issues:** | NA |

1. Sentiment Analysis

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.5 |
| **Use Case Name:** | Sentiment Analysis |
| **Actors:** | User |
| **Description:** | User can detect polarity of the document either its positive or negative. |
| **Level:** | High |
| **Trigger:** | Clicking on the capture button |
| **Preconditions:** | 1. User must be signed in |
| **Includes:** |  |
| **Normal Flow:** | 1. User logs in to the application. 2. User clicks on Sentiment Analysis in navbar. 3. User Uploads a document or enter text in textbox. 4. User clicks Apply. |
| **Alternative Flows:** |  |
| **Exceptions:** |  |
| **Post conditions:** | Results will be displayed to user in a graph form. |
| **Special Requirements:** | None |
| **Assumptions:** |  |
| **Notes and Issues:** | NA |

**Module 4: Report**

1. Save Report

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.1 |
| **Use Case Name:** | Save Report |
| **Actors:** | User |
| **Description:** | User can save report of the document after applying data science tools. |
| **Level:** | High |
| **Trigger:** | User clicks on Save button. |
| **Preconditions:** | User has entered some texts or uploaded a document.  User has applied at least one data cleaning tool. |
| **Includes:** |  |
| **Normal Flow:** | 1. User logs in. 2. User selects a data science tool from navbar. 3. User uploads document/enters text. 4. User applies the tools. 5. User clicks on save report button. 6. A textbox will appear which asks user to enter description of the report. 7. User enters description. 8. User clicks Done. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | NA |
| **Exceptions:** |  |
| **Postconditions:** | The report of document is saved in the database. |
| **Special Requirements:** | NA |
| **Assumptions:** |  |
| **Notes and Issues:** | NA |

1. View Report

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.4 |
| **Use Case Name:** | View Report |
| **Actors:** | User |
| **Description:** | User can view reports saved in database from report section in navbar. |
| **Level:** | Medium |
| **Trigger:** |  |
| **Preconditions:** |  |
| **Includes:** | NA |
| **Normal Flow:** | 1. User logs in. 2. User clicks Report from navbar. |
| **Alternative Flows:** |  |
| **Exceptions:** | User has no saved reports in database. |
| **Post conditions:** | A list of all saved reports will be displayed to user. |
| **Special Requirements:** | NA |
| **Assumptions:** |  |
| **Notes and Issues:** | NA |

1. Delete Report

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.5 |
| **Use Case Name:** | Delete report |
| **Actors:** | User |
| **Description:** | User can delete saved reports from the database. |
| **Level:** | Medium |
| **Trigger:** | User clicks on Delete button. |
| **Preconditions:** | User has opened report. |
| **Includes:** | NA |
| **Normal Flow:** | User logs in.  User clicks Report from navbar.  User select a report from a list of saved reports.  User opens a report  User clicks on Delete button. |
| **Alternative Flows:** |  |
| **Exceptions:** |  |
| **Post conditions:** | The intended report is deleted from the database and list of reports. |
| **Special Requirements:** | NA |
| **Assumptions:** |  |
| **Notes and Issues:** | NA |

# 

1. Download Report

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.5 |
| **Use Case Name:** | Download Report |
| **Actors:** | User |
| **Description:** | User can download the reports from the list of reports. |
| **Level:** | Medium |
| **Trigger:** | User clicks on Download button. |
| **Preconditions:** | User has opened a report from list. |
| **Includes:** | NA |
| **Normal Flow:** | User clicks on Report button from navbar.  User selects a report from list of reports.  User clicks on Download button. |
| **Alternative Flows:** |  |
| **Exceptions:** | NA |
| **Post conditions:** | The selected report is downloaded on the device. |
| **Special Requirements:** | NA |
| **Assumptions:** |  |
| **Notes and Issues:** | NA |

**Module 5: Data Repository Management and Sharing**

1. Store document in repository

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.1 |
| **Use Case Name:** | Store document in repository. |
| **Actors:** | User |
| **Description:** | User can store the document he/she uploaded in the repository. |
| **Level:** | Medium |
| **Trigger:** | User clicks on upload document. |
| **Preconditions:** | User must be logged in. |
| **Includes:** | NA |
| **Normal Flow:** | User logs in to account.  User clicks on Repository option from navbar.  User clicks Upload button.  User selects a document to upload. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | NA |
| **Exceptions:** |  |
| **Post conditions:** | Selected document will be uploaded in the repository. |
| **Special Requirements:** | NA |
| **Assumptions:** |  |
| **Notes and Issues:** | NA |

1. Download document

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.2 |
| **Use Case Name:** | Download document |
| **Actors:** | User |
| **Description:** | User can download document from repository. |
| **Level:** | Low |
| **Trigger:** | User clicks on download button. |
| **Preconditions:** | User has selected a document. |
| **Includes:** |  |
| **Normal Flow:** | User logs in.  User clicks on Repository from navbar.  User selects a previously uploaded document.  User clicks on Download button. |
| **Alternative Flows:** | NA |
| **Exceptions:** |  |
| **Postconditions:** | Document is download on the device. |
| **Special Requirements:** | NA |
| **Assumptions:** |  |
| **Notes and Issues:** | NA |

1. Edit Document

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.3 |
| **Use Case Name:** | Edit document |
| **Actors:** | User |
| **Description:** | User can use the document to perform operations |
| **Level:** | High |
| **Trigger:** | Clicking on the item. |
| **Preconditions:** | The user must add item |
| **Includes:** | UC-4.1 |
| **Normal Flow:** | 1. Go to Exchange items 2. Click on the item |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | NA |
| **Exceptions:** |  |
| **Post conditions:** | The details can be edited. |
| **Special Requirements:** | NA |
| **Assumptions:** |  |
| **Notes and Issues:** | NA |

1. Share Document

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.4 |
| **Use Case Name:** | Read articles |
| **Actors:** | User |
| **Description:** | User can read articles or blogs from the self-grooming sites |
| **Level:** | Medium |
| **Trigger:** | Clicking on the read articles button |
| **Preconditions:** |  |
| **Includes:** | NA |
| **Normal Flow:** | 1. Go to Exchange items 2. Click on read articles. |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** |  |
| **Exceptions:** | NA |
| **Post conditions:** |  |
| **Special Requirements:** | NA |
| **Assumptions:** |  |
| **Notes and Issues:** | NA |

# Specific Requirements

Following are the functional requirements of **Style me**

## Functional Requirement 1

|  |  |
| --- | --- |
| Identifier | 1.1.1 |
| Title | User-name |
| Requirement | User will be to input user-name in order to log in to the application |
| Source | Nabegha |
| Rationale | User-name will help in signing in. |
| Restrictions and Risk | User-name must be unique |
| Dependencies | none |
| Priority | High |

## Functional Requirement 2

|  |  |
| --- | --- |
| Identifier | 1.1.2 |
| Title | Password |
| Requirement | User will be to input Password of his account. |
| Source | Nabegha |
| Rationale | Password is set in order to protect account from unauthorized access |
| Restrictions and Risk | Password must be 8 character long. |
| Dependencies | none |
| Priority | High |

## Functional Requirement 3

|  |  |
| --- | --- |
| Identifier | 1.1.3 |
| Title | Log in button |
| Requirement | User will click log in button to log into his/her account. |
| Source | Supervisor |
| Rationale | Log in button sends the form data to server |
| Restrictions and Risk | User-name and Password must be filled |
| Dependencies | 1.1.1, 1.1.2 |
| Priority | High |

## Functional Requirement 4

|  |  |
| --- | --- |
| Identifier | 1.1.4 |
| Title | Gmail |
| Requirement | User will click in order to sign in through Gmail |
| Source | Supervisor |
| Rationale | User can sign in or sign up through email and does not have to go through the sign up procedure again. |
| Restrictions and Risk | None |
| Dependencies | None |
| Priority | Medium |

## Functional Requirement 5

|  |  |
| --- | --- |
| Identifier | 1.2.1 |
| Title | User-name |
| Requirement | User needs to provide a unique ID to identify his/her account |
| Source | Supervisor |
| Rationale | User-name separates a user account from others |
| Restrictions and Risk | User-name is needed to log in to account |
| Dependencies | None |
| Priority | High |

## Functional Requirement 6

|  |  |
| --- | --- |
| Identifier | 1.2.2 |
| Title | Password |
| Requirement | User needs to set a password for his/her account |
| Source | Nabegha |
| Rationale | Password stops unauthorized access to account |
| Restrictions and Risk | Password is needed to log in to account |
| Dependencies | None |
| Priority | High |

## Functional Requirement 7

|  |  |
| --- | --- |
| Identifier | 1.2.2 |
| Title | Confirm Password |
| Requirement | User needs to confirm before setting a password for his/her account |
| Source | Nabegha |
| Rationale | Password stops unauthorized access to account |
| Restrictions and Risk | Password is needed to log in to account |
| Dependencies | 1.2.1 |
| Priority | High |

## Functional Requirement 8

|  |  |
| --- | --- |
| Identifier | 1.2.3 |
| Title | Email |
| Requirement | User will provide email address for the application |
| Source | Nabegha |
| Rationale | It will link their account to their email. They can reset password with their email address in case they forgot it |
| Restrictions and Risk | None |
| Dependencies | None |
| Priority | High |

## Functional Requirement 9

|  |  |
| --- | --- |
| Identifier | 1.2.4 |
| Title | Sign up button |
| Requirement | It will send the form data to server. |
| Source | Nabegha |
| Rationale | Form data contains user information. It needs to be stored in server, so user can later log in to account |
| Restrictions and Risk | All fields must be filled i.e. user-name, password and email |
| Dependencies | 1.2.1, 1.2.2, 1.2.3 |
| Priority | High |

## Functional Requirement 10

|  |  |
| --- | --- |
| Identifier | 1.3.1 |
| Title | Email verification |
| Requirement | It will allow user to reset his/her account password. Email of the account will be provided to reset the password. |
| Source | Nabegha |
| Rationale | It is required in case user forgets his/her account password |
| Restrictions and Risk | User can reset password if he/she provided correct email of account |
| Dependencies | 1.2.3 |
| Priority | Medium |

## Functional Requirement 11

|  |  |
| --- | --- |
| Identifier | 1.3.2 |
| Title | New Password |
| Requirement | User needs to reset a password for his/her account incase he/she forgets it |
| Source | Nabegha |
| Rationale | Password stops unauthorized access to account |
| Restrictions and Risk | Password must be 8 character long. |
| Dependencies | None |
| Priority | High |

## Functional Requirement 12

|  |  |
| --- | --- |
| Identifier | 1.3.3 |
| Title | Confirm Password |
| Requirement | User needs to confirm before setting a new password for his/her account |
| Source | Nabegha |
| Rationale | Password stops unauthorized access to account |
| Restrictions and Risk | Password must be 8 character long |
| Dependencies | 1.3.2 |
| Priority | High |

## Functional Requirement 13

|  |  |
| --- | --- |
| Identifier | 1.3.4 |
| Title | Submit button |
| Requirement | It will send the form data to server. |
| Source | Nabegha |
| Rationale | Form data contains password information. It needs to be stored in server, so user can later log in to account |
| Restrictions and Risk | All fields must be filled i.e password and email |
| Dependencies | 1.3.1, 1.3.2, 1.3.3 |
| Priority | High |

## Functional Requirement 14

|  |  |
| --- | --- |
| Identifier | 1.4.1 |
| Title | Remember username |
| Requirement | User can check remember me option to be remembered for next time. |
| Source | Nabegha |
| Rationale | Next time user can select username without typing it |
| Restrictions and Risk |
| Dependencies | 1.1.1 |
| Priority | Low |

## Functional Requirement 15

|  |  |
| --- | --- |
| Identifier | 1.4.2 |
| Title | Remember password |
| Requirement | User can check remember me option to be remembered for next time. |
| Source | Nabegha |
| Rationale | Next time user can select username and password will automatically be entered. |
| Restrictions and Risk |
| Dependencies | 1.1.2 |
| Priority | Low |

## Functional Requirement 16

|  |  |
| --- | --- |
| Identifier | 1.4.3 |
| Title | Sign in button |
| Requirement | It will send the form data to server. |
| Source | Nabegha |
| Rationale | Form data contains user information. It needs to be stored in server, so user can later log in to account |
| Restrictions and Risk | All fields must be filled i.e. user-name, password |
| Dependencies | 1.4.1, 1.4.2 |
| Priority | High |

## Functional Requirement 17

|  |  |
| --- | --- |
| Identifier | 1.5.1 |
| Title | Old Password |
| Requirement | User needs to enter old password for his/her account to reset. |
| Source | Nabegha |
| Rationale | Password stops unauthorized access to account |
| Restrictions and Risk | Password is needed to log in to account |
| Dependencies | 1.1.2 |
| Priority | Medium |

## Functional Requirement 18

|  |  |
| --- | --- |
| Identifier | 1.5.2 |
| Title | New Password |
| Requirement | User needs to new a password for his/her account. |
| Source | Supervisor |
| Rationale | Password stops unauthorized access to account |
| Restrictions and Risk | Password must be 8 character long |
| Dependencies | None |
| Priority | Medium |

## Functional Requirement 19

|  |  |
| --- | --- |
| Identifier | 1.5.3 |
| Title | Confirm Password |
| Requirement | User needs to confirm before setting a new password for his/her account |
| Source | Supervisor |
| Rationale | Password stops unauthorized access to account |
| Restrictions and Risk | Password must be 8 character long |
| Dependencies | 1.5.2 |
| Priority | Medium |

## Functional Requirement 20

|  |  |
| --- | --- |
| Identifier | 1.5.4 |
| Title | Submit button |
| Requirement | It will send the data to server. |
| Source | Supervisor |
| Rationale | The data needs to be stored in server, so user can later log in to account |
| Restrictions and Risk | All fields must be filled. |
| Dependencies | 1.5.1, 1.5.2,1.5.3 |
| Priority | Medium |

## Functional Requirement 21

|  |  |
| --- | --- |
| Identifier | 1.6.1 |
| Title | Name |
| Requirement | It will show the user’s name that user provided in account |
| Source | Supervisor |
| Rationale | User can give their profile a name, so others can view their name |
| Restrictions and Risk | Name must be unique |
| Dependencies | None |
| Priority | Low |

## Functional Requirement 22

|  |  |
| --- | --- |
| Identifier | 1.6.2 |
| Title | Date of birth |
| Requirement | It will display user date of birth |
| Source | Supervisor |
| Rationale | User can view their date of birth. Other users can also view date of birth |
| Restrictions and Risk | None |
| Dependencies | None |
| Priority | Low |

## Functional Requirement 23

|  |  |
| --- | --- |
| Identifier | 1.6.3 |
| Title | Gender |
| Requirement | It will ask the user about the gender |
| Source | Nabegha |
| Rationale | User will be shown recommendations according to the gender |
| Restrictions and Risk | It only has two options |
| Dependencies | None |
| Priority | Low |

## Functional Requirement 24

|  |  |
| --- | --- |
| Identifier | 1.6.4 |
| Title | Personality |
| Requirement | It will ask the user to choose his/her personality |
| Source | Nabegha |
| Rationale | User can have recommendations according to his personality. |
| Restrictions and Risk | None |
| Dependencies | None |
| Priority | Low |

## Functional Requirement 25

|  |  |
| --- | --- |
| Identifier | 1.6.5 |
| Title | Favorite color |
| Requirement | It will ask the user to enter his/her favorite color. |
| Source | Nabegha |
| Rationale | User can have recommendations according to his/her favorite color. |
| Restrictions and Risk | Limited colors are provided |
| Dependencies | none |
| Priority | Low |

## Functional Requirement 26

|  |  |
| --- | --- |
| Identifier | 1.6.6 |
| Title | Preference |
| Requirement | It will ask the user to choose his/her preference |
| Source | Nabegha |
| Rationale | User can have recommendations according to his/her preference. |
| Restrictions and Risk | Limited options |
| Dependencies | None |
| Priority | Low |

## Functional Requirement 27

|  |  |
| --- | --- |
| Identifier | 1.7.1 |
| Title | Edit Name |
| Requirement | It will allow to edit the user’s name that user provided in account |
| Source | Nabegha |
| Rationale | User can give their profile a name, so others can view their name |
| Restrictions and Risk | Name must be entered. |
| Dependencies | 1.6.1 |
| Priority | Low |

## Functional Requirement 28

|  |  |
| --- | --- |
| Identifier | 1.7.2 |
| Title | Edit Date of birth |
| Requirement | It will edit user date of birth |
| Source | Nabegha |
| Rationale | User can view their date of birth. Other users can also view date of birth |
| Restrictions and Risk | Date of birth must already be provided |
| Dependencies | 1.6.2 |
| Priority | Low |

## Functional Requirement 29

|  |  |
| --- | --- |
| Identifier | 1.7.3 |
| Title | Edit Gender |
| Requirement | It will edit the gender |
| Source | Nabegha |
| Rationale | User will be shown recommendations according to the gender |
| Restrictions and Risk | None |
| Dependencies | 1.6.3 |
| Priority | Low |

## Functional Requirement 30

|  |  |
| --- | --- |
| Identifier | 1.7.4 |
| Title | Edit Personality |
| Requirement | It will allow the user to edit his/her personality |
| Source | Nabegha |
| Rationale | User can have recommendations according to his personality. |
| Restrictions and Risk | Limited options |
| Dependencies | 1.6.4 |
| Priority | Low |

## Functional Requirement 31

|  |  |
| --- | --- |
| Identifier | 1.7.5 |
| Title | Edit Favorite color |
| Requirement | It will ask the user to edit his/her favorite color. |
| Source | Nabegha |
| Rationale | User can have recommendations according to his/her favorite color. |
| Restrictions and Risk | Limited favorite colors |
| Dependencies | 1.6.5 |
| Priority | Low |

## Functional Requirement 32

|  |  |
| --- | --- |
| Identifier | 1.7.6 |
| Title | Edit Preference |
| Requirement | It will allow the user to edit choose his/her preference |
| Source | Nabegha |
| Rationale | User can have recommendations according to his/her preference. |
| Restrictions and Risk | Limited options |
| Dependencies | 1.7.6 |
| Priority | Low |

## Functional Requirement 33

|  |  |
| --- | --- |
| Identifier | 1.8.1 |
| Title | View information |
| Requirement | It will display description of profile that user has written on profile |
| Source | Supervisor |
| Rationale | User can view their description which help in recommendations |
| Restrictions and Risk | None |
| Dependencies | 1.6.1,1.6.2,1.6.3,1.6.4,1.6.5 |
| Priority | Low |

## Functional Requirement 34

|  |  |
| --- | --- |
| Identifier | 1.9.1 |
| Title | Log out |
| Requirement | User can log out of their account. |
| Source | Supervisor |
| Rationale | It will not allow the application to use the data. |
| Restrictions and Risk | None |
| Dependencies | 1.1.1,1.1.2 |
| Priority | Low |

## Functional Requirement 35

|  |  |
| --- | --- |
| Identifier | 1.9.2 |
| Title | Confirm logout |
| Requirement | It will ask for confirmation to log out. |
| Source | None |
| Rationale | It will prevent the mistaken log out. |
| Restrictions and Risk | None |
| Dependencies | 1.9.1 |
| Priority | Medium |

## Functional Requirement 36

|  |  |
| --- | --- |
| Identifier | 2.1.1 |
| Title | Day |
| Requirement | It will ask the user to select day |
| Source | Nabegha |
| Rationale | It will help in selecting date for the event. |
| Restrictions and Risk | None |
| Dependencies | None |
| Priority | High |

## Functional Requirement 37

|  |  |
| --- | --- |
| Identifier | 2.1.2 |
| Title | Month |
| Requirement | It will ask the user to select the month |
| Source | Nabegha |
| Rationale | It will help in selecting the date for the event. |
| Restrictions and Risk | None |
| Dependencies | None |
| Priority | High |

## Functional Requirement 38

|  |  |
| --- | --- |
| Identifier | 2.1.3 |
| Title | Year |
| Requirement | It will ask the user to select the year. |
| Source | Nabegha |
| Rationale | It will help in selecting the date for the event. |
| Restrictions and Risk | None |
| Dependencies | None |
| Priority | High |

## Functional Requirement 39

|  |  |
| --- | --- |
| Identifier | 2.2.1 |
| Title | Event name |
| Requirement | User can add the name of the event for recommendation |
| Source | Nabegha |
| Rationale | It will allow user to keep a record of events |
| Restrictions and Risk | Name must be elaborative |
| Dependencies | None |
| Priority | High |

## Functional Requirement 40

|  |  |
| --- | --- |
| Identifier | 2.2.2 |
| Title | Event type |
| Requirement | User can add the type of the event. |
| Source | Nabegha |
| Rationale | User can have recommendations based on event’s type. |
| Restrictions and Risk | None |
| Dependencies | None |
| Priority | High |

## Functional Requirement 41

|  |  |
| --- | --- |
| Identifier | 2.2.3 |
| Title | Event Type Description |
| Requirement | User will see the description of the type of event. |
| Source | Nabegha |
| Rationale | Description of event type is necessary so that others can understand it easily. |
| Restrictions and Risk | None |
| Dependencies | None |
| Priority | Low |

## Functional Requirement 42

|  |  |
| --- | --- |
| Identifier | 2.3.1 |
| Title | Get event |
| Requirement | It will get the event data. |
| Source | Nabegha |
| Rationale | This will help in giving recommendations. |
| Restrictions and Risk | None |
| Dependencies | None |
| Priority | High |

## Functional Requirement 43

|  |  |
| --- | --- |
| Identifier | 2.3.2 |
| Title | Get date |
| Requirement | The system will get the date entered. |
| Source | Nabegha |
| Rationale | This will help in giving recommendations |
| Restrictions and Risk | It will get the specified date only |
| Dependencies | None |
| Priority | High |

## Functional Requirement 44

|  |  |
| --- | --- |
| Identifier | 2.3.3 |
| Title | Get weather data |
| Requirement | The system will get the data entered. |
| Source | Nabegha |
| Rationale | This will help in giving recommendations |
| Restrictions and Risk | Weather is not accurate always. |
| Dependencies | None |
| Priority | High |

## Functional Requirement 25

|  |  |
| --- | --- |
| Identifier | 2.3.4 |
| Title | Check event |
| Requirement | This will check the event entered. |
| Source | Supervisor |
| Rationale | This will help in giving recommendations |
| Restrictions and Risk | None |
| Dependencies | 2.2.2 |
| Priority | High |

## Functional Requirement 46

|  |  |
| --- | --- |
| Identifier | 2.3.5 |
| Title | Check weather |
| Requirement | This will check the current weather. |
| Source | Supervisor |
| Rationale | This will help in giving recommendations |
| Restrictions and Risk | Wrong weather forecast. |
| Dependencies | 2.2.4 |
| Priority | High |

## Functional Requirement 47

|  |  |
| --- | --- |
| Identifier | 2.3.6 |
| Title | Check color |
| Requirement | This will check the color preference |
| Source | Supervisor |
| Rationale | This will help in giving recommendations |
| Restrictions and Risk | None |
| Dependencies | 2.2.5 |
| Priority | Low |

## Functional Requirement 28

|  |  |
| --- | --- |
| Identifier | 2.3.7 |
| Title | Check preference |
| Requirement | It will check the preference of the person. |
| Source | Supervisor |
| Rationale | This will help in giving recommendations. |
| Restrictions and Risk | None |
| Dependencies | 2.2.6 |
| Priority | Low |

## Functional Requirement 49

|  |  |
| --- | --- |
| Identifier | 2.3.8 |
| Title | Check personality |
| Requirement | It will check the personality of the user |
| Source | Supervisor |
| Rationale | This will help in giving appropriate recommendations |
| Restrictions and Risk | None |
| Dependencies | 2.2.7 |
| Priority | low |

## Functional Requirement 50

|  |  |
| --- | --- |
| Identifier | 2.3.9 |
| Title | Check gender |
| Requirement | It will check the gender of the user. |
| Source | Supervisor |
| Rationale | This will help in giving recommendations |
| Restrictions and Risk | None |
| Dependencies | 2.2.8 |
| Priority | Low |

## Functional Requirement 51

|  |  |
| --- | --- |
| Identifier | 2.3.10 |
| Title | API key |
| Requirement | It will take the key to use the API |
| Source | Nabegha |
| Rationale | It will allow to check weather |
| Restrictions and Risk | None |
| Dependencies | None |
| Priority | Low |

## Functional Requirement 52

|  |  |
| --- | --- |
| Identifier | 2.3.11 |
| Title | Generate List |
| Requirement | It will generate a list of looks recommended |
| Source | Nabegha |
| Rationale | It will allow user to view the looks recommended |
| Restrictions and Risk | None |
| Dependencies | 2.3.9, 2.3.8,2.3.7 |
| Priority | High |

## Functional Requirement 53

|  |  |
| --- | --- |
| Identifier | 2.3.12 |
| Title | Show list |
| Requirement | It will allow user to view the list of looks recommended. |
| Source | Nabegha |
| Rationale | User can view the looks in the collages foam. |
| Restrictions and Risk | List can be repeated |
| Dependencies | 2.3.11 |
| Priority | Low |

## Functional Requirement 54

|  |  |
| --- | --- |
| Identifier | 2.4.1 |
| Title | Select Look |
| Requirement | It will allow user to select a look to wear. |
| Source | Nabegha |
| Rationale | User can select an appropriate look |
| Restrictions and Risk | None |
| Dependencies | None |
| Priority | Medium |

## Functional Requirement 55

|  |  |
| --- | --- |
| Identifier | 2.4.2 |
| Title | Confirm Look |
| Requirement | User would need to confirm a look to wear. |
| Source | Nabegha |
| Rationale | The assurance counters mistakes |
| Restrictions and Risk | Limited Looks |
| Dependencies | 2.4.1 |
| Priority | Low |

## Functional Requirement 56

|  |  |
| --- | --- |
| Identifier | 2.4.3 |
| Title | Check wardrobe |
| Requirement | It will ask the user if the chosen recommendation is in the wardrobe |
| Source | Nabegha |
| Rationale | It will help in decision-making. |
| Restrictions and Risk | Limited length of words for description |
| Dependencies | None |
| Priority | Medium |

## Functional Requirement 57

|  |  |
| --- | --- |
| Identifier | 2.4.4 |
| Title | Add to history |
| Requirement | It will add the look to history. |
| Source | Nabegha |
| Rationale | Keeping record of the items worn helps |
| Restrictions and Risk | None |
| Dependencies | 2.4.1 |
| Priority | Low |

## Functional Requirement 58

|  |  |
| --- | --- |
| Identifier | 2.5.1 |
| Title | Open calendar |
| Requirement | It will open calendar to view the schedule |
| Source | Nabegha |
| Rationale | User can reschedule. |
| Restrictions and Risk | Dependent on calendar |
| Dependencies | None |
| Priority | Medium |

## Functional Requirement 59

|  |  |
| --- | --- |
| Identifier | 2.5.2 |
| Title | Highlight events |
| Requirement | It will highlight the events on the colander. |
| Source | Nabegha |
| Rationale | A better view of the scheduled events. |
| Restrictions and Risk | Events must be selected |
| Dependencies | 2.4.5 |
| Priority | Medium |

## Functional Requirement 60

|  |  |
| --- | --- |
| Identifier | 2.5.3 |
| Title | Select event date |
| Requirement | It will select the event date on the calendar |
| Source | Nabegha |
| Rationale | Event date signifies the important detail of it. |
| Restrictions and Risk | None |
| Dependencies | None |
| Priority | Medium |

## Functional Requirement 61

|  |  |
| --- | --- |
| Identifier | 2.5.4 |
| Title | Open event details |
| Requirement | It is used to open the details of the event. |
| Source | Nabegha |
| Rationale | The details give all the information stored at the point of scheduling. |
| Restrictions and Risk | Event details are the ones added by user. |
| Dependencies | 2.4.3 |
| Priority | Medium |

## Functional Requirement 62

|  |  |
| --- | --- |
| Identifier | 2.5.5 |
| Title | Show date |
| Requirement | It is used to show the date of the event. |
| Source | Nabegha |
| Rationale | The date is necessary for scheduling |
| Restrictions and Risk | There must be a date selected |
| Dependencies | 2.4.4 |
| Priority | Low |

## Functional Requirement 63

|  |  |
| --- | --- |
| Identifier | 2.5.6 |
| Title | Show event |
| Requirement | It is used to show event. |
| Source | Nabegha |
| Rationale | The event is necessary for scheduling |
| Restrictions and Risk | None |
| Dependencies | 2.4.6 |
| Priority | Medium |

## Functional Requirement 64

|  |  |
| --- | --- |
| Identifier | 2.5.7 |
| Title | Show name |
| Requirement | The name is displayed for the event |
| Source | Nabegha |
| Rationale | Name makes the user remember the event. |
| Restrictions and Risk | Name must be unique |
| Dependencies | 2.4.7 |
| Priority | Medium |

## Functional Requirement 65

|  |  |
| --- | --- |
| Identifier | 2.5.8 |
| Title | Show type |
| Requirement | User will click to show type of the event |
| Source | Nabegha |
| Rationale | To categorize the events |
| Restrictions and Risk | The types are limited. |
| Dependencies | 1.2.4 |
| Priority | Medium |

## Functional Requirement 66

|  |  |
| --- | --- |
| Identifier | 2.5.9 |
| Title | Show look |
| Requirement | The user will be able to view look |
| Source | Nabegha |
| Rationale | It is used to choose the look |
| Restrictions and Risk | Looks can be repeated. |
| Dependencies | 2.5.1 - 2.5.3 |
| Priority | High |

## Functional Requirement 67

|  |  |
| --- | --- |
| Identifier | 2.5.10 |
| Title | Select random outfit |
| Requirement | The user will select outfit generator button. |
| Source | Supervisor |
| Rationale | To notify about the outfit |
| Restrictions and Risk | None |
| Dependencies | 2.6.5 |
| Priority | Medium |

## Functional Requirement 68

|  |  |
| --- | --- |
| Identifier | 2.6.1 |
| Title | Daily notification |
| Requirement | The user is notified about the look. |
| Source | Supervisor |
| Rationale | Needed for login |
| Restrictions and Risk | The user will be notified daily. |
| Dependencies | 2.5.1 |
| Priority | High |

## Functional Requirement 69

|  |  |
| --- | --- |
| Identifier | 2.6.2 |
| Title | Select date |
| Requirement | To choose the event according to date. |
| Source | Nabegha |
| Rationale | To schedules |
| Restrictions and Risk | None |
| Dependencies | 1.6.5 |
| Priority | Low |

## Functional Requirement 70

|  |  |
| --- | --- |
| Identifier | 2.7.1 |
| Title | Select event |
| Requirement | It is to select the event for scheduling |
| Source | Supervisor |
| Rationale | It is to schedules. |
| Restrictions and Risk | None |
| Dependencies | 2.6.5 |
| Priority | Low |

## Functional Requirement 71

|  |  |
| --- | --- |
| Identifier | 2.7.2 |
| Title | Select outfit |
| Requirement | It is to select the outfit for particular event. |
| Source | Supervisor |
| Rationale | It is used to schedules. |
| Restrictions and Risk | All the previous fields must be filled to login. |
| Dependencies | None |
| Priority | Medium |

## Functional Requirement 72

|  |  |
| --- | --- |
| Identifier | 2.8.1 |
| Title | Event reminder |
| Requirement | To remind about the upcoming event. |
| Source | Nabegha |
| Rationale | Needed for notification |
| Restrictions and Risk | None |
| Dependencies | None |
| Priority | High |

## Functional Requirement 73

|  |  |
| --- | --- |
| Identifier | 3.1.1 |
| Title | View Look |
| Requirement | The user can clicks on the look. |
| Source | Supervisor |
| Rationale | Needed to analyses outfits. |
| Restrictions and Risk | It can view certain looks only |
| Dependencies | None |
| Priority | High |

## Functional Requirement 74

|  |  |
| --- | --- |
| Identifier | 3.2.1 |
| Title | Zoom in |
| Requirement | The user clicks on zoom in button |
| Source | Supervisor |
| Rationale | To fit the outfit correctly |
| Restrictions and Risk | It can zoom in to a certain limit |
| Dependencies | None |
| Priority | Low |

## Functional Requirement 75

|  |  |
| --- | --- |
| Identifier | 3.3.1 |
| Title | Zoom out |
| Requirement | The user clicks on zoom out button. |
| Source | Nabegha |
| Rationale | To fit the outfit correctly |
| Restrictions and Risk | It can zoom out to a certain limit. |
| Dependencies | 2.7.1 - 2.7.3 |
| Priority | High |

## Functional Requirement 76

|  |  |
| --- | --- |
| Identifier | 3.4.1 |
| Title | 360 rotate |
| Requirement | It is to rotate the picture . |
| Source | Nabegha |
| Rationale | For a better display |
| Restrictions and Risk | There must be a limit of rotation |
| Dependencies | 3.1.1 |
| Priority | High |

## Functional Requirement 77

|  |  |
| --- | --- |
| Identifier | 3.5.1 |
| Title | AR capture |
| Requirement | It is to take a snap of the AR screen. |
| Source | Supervisor |
| Rationale | To be able to save the capture. |
| Restrictions and Risk | The camera must sink in with the phone camera |
| Dependencies | 3.1.1 |
| Priority | Medium |

## Functional Requirement 78

|  |  |
| --- | --- |
| Identifier | 4.1.1 |
| Title | Browse photo |
| Requirement | It allows to add photo by clicking the button |
| Source | Supervisor |
| Rationale | For exchange items |
| Restrictions and Risk | There photo isn’t compatible |
| Dependencies | None |
| Priority | Low |

## Functional Requirement 79

|  |  |
| --- | --- |
| Identifier | 4.1.2 |
| Title | Send to application |
| Requirement | It is to send to the application. |
| Source | Nabegha |
| Rationale | For further processing |
| Restrictions and Risk | None |
| Dependencies | 4.1.1 |
| Priority | Low |

## Functional Requirement 80

|  |  |
| --- | --- |
| Identifier | 4.1.2 |
| Title | Add price |
| Requirement | To input the price of item. |
| Source | Nabegha |
| Rationale | For a full description of item |
| Restrictions and Risk | There must be a constant currency |
| Dependencies | None |
| Priority | Medium |

## Functional Requirement 81

|  |  |
| --- | --- |
| Identifier | 4.1.3 |
| Title | Add name |
| Requirement | To input name of the item. |
| Source | Nabegha |
| Rationale | To make the search easy. |
| Restrictions and Risk | The name must be elaborative |
| Dependencies | None |
| Priority | High |

## Functional Requirement 82

|  |  |
| --- | --- |
| Identifier | 4.1.4 |
| Title | Add color |
| Requirement | To add color of the item |
| Source | Nabegha |
| Rationale | To make the search easy. |
| Restrictions and Risk | The colors are limited. |
| Dependencies | None |
| Priority | Low |

## Functional Requirement 83

|  |  |
| --- | --- |
| Identifier | 4.1.5 |
| Title | Add contact number |
| Requirement | The user clicks on add number |
| Source | Nabegha |
| Rationale | To be able to stay in contact. |
| Restrictions and Risk | The codes of countries should be known. |
| Dependencies | None |
| Priority | High |

## Functional Requirement 84

|  |  |
| --- | --- |
| Identifier | 4.1.6 |
| Title | Add exchange |
| Requirement | The user clicks the add exchange button |
| Source | Nabegha |
| Rationale | To make the process of exchanging easy. |
| Restrictions and Risk | It doesn’t focus on picture quality. |
| Dependencies | None |
| Priority | Medium |

## 

## Functional Requirement 85

|  |  |
| --- | --- |
| Identifier | 4.2.1 |
| Title | View item |
| Requirement | It is to enable the user view item |
| Source | Supervisor |
| Rationale | For further changes |
| Restrictions and Risk | None. |
| Dependencies | 4.1.2 |
| Priority | Low |

## Functional Requirement 86

|  |  |
| --- | --- |
| Identifier | 4.3.1 |
| Title | Select shopping sites list |
| Requirement | It is to select the sites for shopping |
| Source | Nabegha |
| Rationale | To shop more. |
| Restrictions and Risk | Limited options. |
| Dependencies | None |
| Priority | Medium |

## Functional Requirement 87

|  |  |
| --- | --- |
| Identifier | 4.3.2 |
| Title | Select random shopping sites |
| Requirement | It is to select sites. |
| Source | Self |
| Rationale | To shop more. |
| Restrictions and Risk | None |
| Dependencies | 4.3.1 |
| Priority | Medium |

## Functional Requirement 88

|  |  |
| --- | --- |
| Identifier | 4.3.3 |
| Title | Redirect to browser |
| Requirement | To redirect to the browser. |
| Source | Supervisor |
| Rationale | To be able to explore sites. |
| Restrictions and Risk | There might be connectivity issues. |
| Dependencies | None |
| Priority | High |

## Functional Requirement 89

|  |  |
| --- | --- |
| Identifier | 4.4.1 |
| Title | Send url |
| Requirement | To direct to sites |
| Source | Supervisor |
| Rationale | To be able to read articles |
| Restrictions and Risk | There must be a valid url |
| Dependencies | None |
| Priority | High |

## Functional Requirement 90

|  |  |
| --- | --- |
| Identifier | 4.4.2 |
| Title | Select article list |
| Requirement | It is to select list of sites |
| Source | Nabegha |
| Rationale | To show sites |
| Restrictions and Risk | This has limited options |
| Dependencies | None |
| Priority | Medium |

## Functional Requirement 91

|  |  |
| --- | --- |
| Identifier | 4.4.3 |
| Title | Select random article sites |
| Requirement | It is to select random sites |
| Source | Supervisor |
| Rationale | To show articles |
| Restrictions and Risk | This has limited options |
| Dependencies | 4.4.2 |
| Priority | Medium |

## Functional Requirement 92

|  |  |
| --- | --- |
| Identifier | 4.4.4 |
| Title | Redirect to browser |
| Requirement | It is to redirect to websites |
| Source | Supervisor |
| Rationale | To direct to a website |
| Restrictions and Risk | None |
| Dependencies | None |
| Priority | Medium |

## Functional Requirement 93

|  |  |
| --- | --- |
| Identifier | 4.4.5 |
| Title | Send url |
| Requirement | To direct to sites |
| Source | Supervisor |
| Rationale | To be able to read articles |
| Restrictions and Risk | There must be a valid url |
| Dependencies | none |
| Priority | High |

### Non-functional Requirements

Following are the NFRs for the system.

#### Performance Requirements

The performance requirements of **Style me** are as follows:

* + 1. **Response Time**

The system would not be slow .It will take the time to load but the System average response time will be 2ms and maximum would be 10ms.

##### Throughput

The system would be able to respond quickly by handling 1000 alerts per second.

* + 1. **Capacity**

It will be able to accommodate more than nine thousands user data.

#### Reliability

Following is the reliability of the system.

* + 1. **Availability**

System will be available 24/7.

* + 1. **Mean Time Between Failures (MTBF)**

The mean time between failures would be less than 6hours

* + 1. **Mean Time to Repair (MTTR)**

The mean time to repair would be Less than 6 hours

* + 1. **Maximum Bugs or Defect Rate**

The system will achieve such a standard in which it experiences 2 bugs per hundred of lines of code at maximum.

* + 1. **Usability**

Application will confirm certain common International usability standards such as user interface design and usability assurance. Usability assurance standards provide guidelines and some requirements on how to prepare, run, and document usability tests to make sure that product is usable.

#### Design Constraints

Following are the design constraints of the system.

* + 1. **Android Studio**

The software tool would be used to develop the android application. The lollipop version of android would be used and supported.

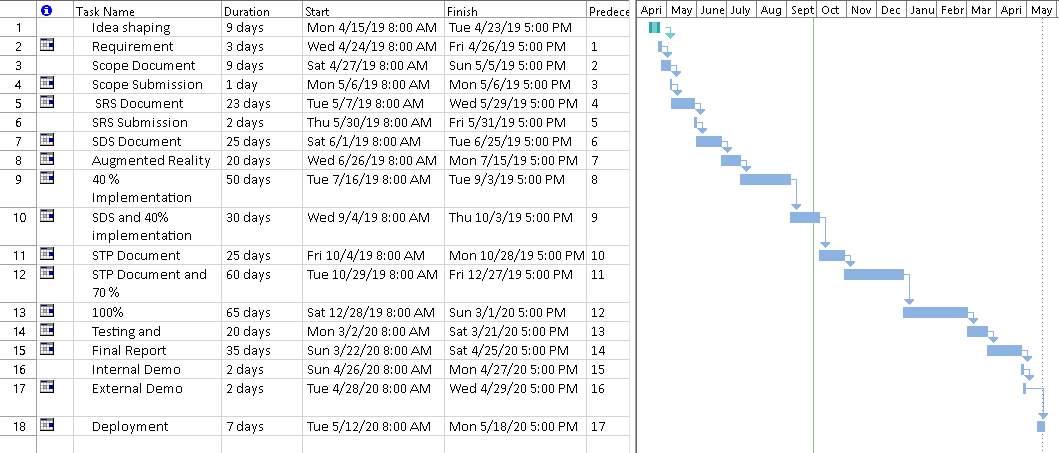
* + 1. **Firebase**

This software tool would be used to develop the database of the system.

#### Security

System should have password encryption .The database will not allow an authorized user to modify the data and thus it will be hard to get into the system.

## Gantt chart



**Figure 3: Gantt chart**

## Conclusion

This document will help the developer and customer to understand the details of the application as a whole including all its requirements. The document will not only analyses the requirements but the system.

## References

**Web links:**

* <https://pdfs.semanticscholar.org/c5dd/c78cfa4c14cd7e6cfbc1e5cda4a56da9414b.pdf>
* <https://prezi.com/x0rdukz3joob/clothing-recommender-system/>
* <https://emerj.com/ai-application-comparisons/recommendation-engines-for-fashion-6-current-applications/>
* <https://www.researchgate.net/publication/321916529_Clothing_Recommendation_System_Based_on_Advanced_User-Based_Collaborative_Filtering_Algorithm>

**Book links:**

**SOFTWARE ENGINEERING, Ninth Edition, Ian Sommerville**

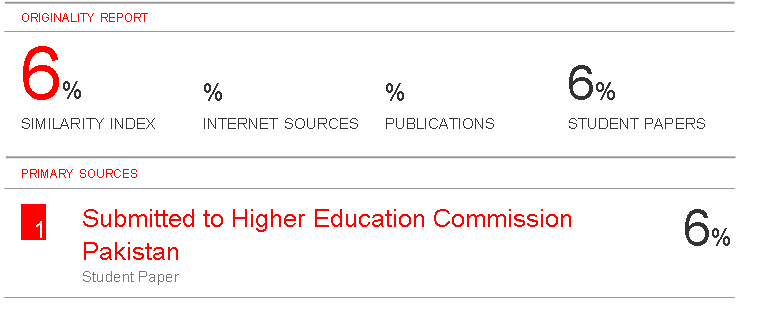
* + <https://edisciplinas.usp.br/pluginfile.php/2150022/mod_resource/content/1/1429431793.203Software%20Engineering%20by%20Somerville.pdf>

**Software Engineering a Practitioner’s Approach, seventh edition, roger s. pressman, Ph.D.**

* + <http://dinus.ac.id/repository/docs/ajar/RPL-7th_ed_software_engineering_a_practitioners_approach_by_roger_s._pressman_.pdf>

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**Figure 4: Plagarism Report**