
Software Requirements Specification

for

Virtual Stylist

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

This document is meant to delineate the features of visual stylist, so as to serve as a guide to the developers on one hand and software validation document for the prospective client on the other. Visual Stylist is intended to provide users the ability to have outfit ideas based on diverse categories. Moreover the users can see a 3D figure of themselves wearing the clothes and can track whether their clothes need to be washed or not.

<Identify the product whose software requirements are specified in this document, including the revision or release number. Describe the scope of the product that is covered by this SRS, particularly if this SRS describes only part of the system or a single subsystem.>

1.2 Document Conventions

The used font of this document is Times. The standard size of the font is 12. The color is black. Every subsection is numerated and its text offset is tabulated. The headings are bold.

<Describe any standards or typographical conventions that were followed when writing this SRS, such as fonts or highlighting that have special significance. For example, state whether priorities for higher-level requirements are assumed to be inherited by detailed requirements, or whether every requirement statement is to have its own priority.>

1.3 Intended Audience and Reading Suggestions

This document is intended for developers, users, testers, documentation readers, project managers and etc.

The document describes the following:

1.3.1 System overview.

1.3.2 Exemplary interface of Visual Stylist (on iOS)

1.3.3 Functional requirements.

1.3.4 Nonfunctional requirements.

<Describe the different types of reader that the document is intended for, such as developers, project managers, marketing staff, users, testers, and documentation writers. Describe what the rest of this SRS contains and how it is organized. Suggest a sequence for reading the document, beginning with the overview sections and proceeding through the sections that are most pertinent to each reader type.>

1.4 Product Scope

<Provide a short description of the software being specified and its purpose, including relevant benefits, objectives, and goals. Relate the software to corporate goals or business strategies. If a separate vision and scope document is available, refer to it rather than duplicating its contents here.>

1.5 References

<List any other documents or Web addresses to which this SRS refers. These may include user interface style guides, contracts, standards, system requirements specifications, use case documents, or a vision and scope document. Provide enough information so that the reader could access a copy of each reference, including title, author, version number, date, and source or location.>

2. Overall Description

2.1 Product Perspective

The product is a new, self-contained product. It is not a follow-on member of a product family.

2.2 Product Functions

The platform provides:

- Combination of tech and style to visually search and manage the user's wardrobe.
- Outfit suggestions from the user's wardrobe.
- An option to save favorite outfits with items from the user's collection on the application or phone's gallery.
- Access from any device that has the app installed and from any web browser.
- The best match considering the user's body type, the weather, the occasion, color/s and the style that has been chosen.
- A 3D figure of the user or a hologram with exact measurements and face.
- A 360° view of the figure wearing the chosen clothes.

2.3 User Classes and Characteristics

Users of the system should be able to combine and save outfits, see themselves wearing them, ease the outfit choice, save time because the user does not have to actually try on the clothes.

The users of the platform are considered to be:

- Aged from 5 to 60+ years old, but overall everyone can use it.
- Interested in fashion.
- People who care about their appearance and want to dress appropriate for the occasion.
- Occupied for the day or do not have spare time to try and choose outfits.

The user can log in using his/her account details. New customers have to set up an account. They must give the details of their full name, email address, username and password. Moreover, they can scan themselves or enter their measurements and height. Including a photo of their face is optional.

2.4 Operating Environment

Internet connection is required.
Operating systems: iOS, Android
Database: SQL+ database
Cooperation with AccuWeather is required.

2.5 Design and Implementation Constraints

Users may have access from any device that supports the specific operating system.
System shall operate in newest versions of the web browsers: Chrome, Mozilla Firefox, Safari.
Hologram option will work only if the device is supported by specific technologies.
Personal data will be stored in the database, so the database must be secure.
At least 2 GB of free space with at least 1 GB additional space for custom content and saved outfits.

2.6 User Documentation

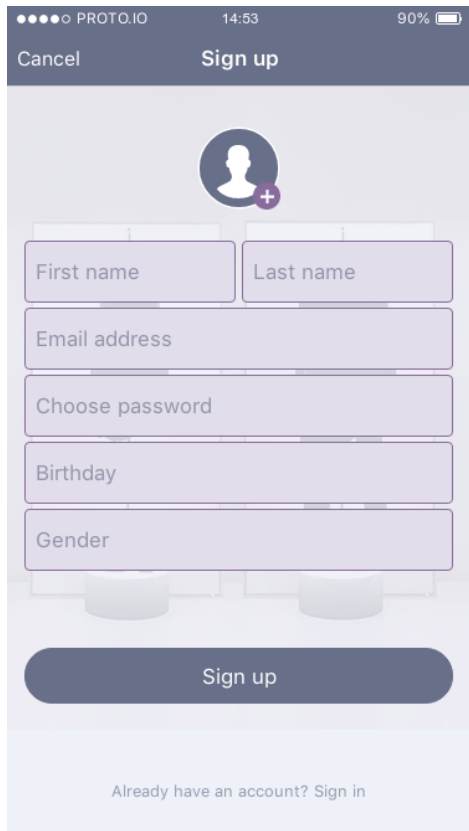
There will be a tutorial that will introduce how “Visual Stylist” works when the user signs up.
Help section will be accessible. There can be found additional information about “Visual Stylist”, as well as the tutorial.

2.7 Assumptions and Dependencies

Possibility of low use of the hologram option due to the fact that it is supported by special technology.
Dependencies:
The cooperation with AccuWeather can lead to possible problems such as unavailable weather option and inaccurate weather predictions.

3. External Interface Requirements

3.1 User Interfaces



Sign up

Cancel

First name

Last name

Email address

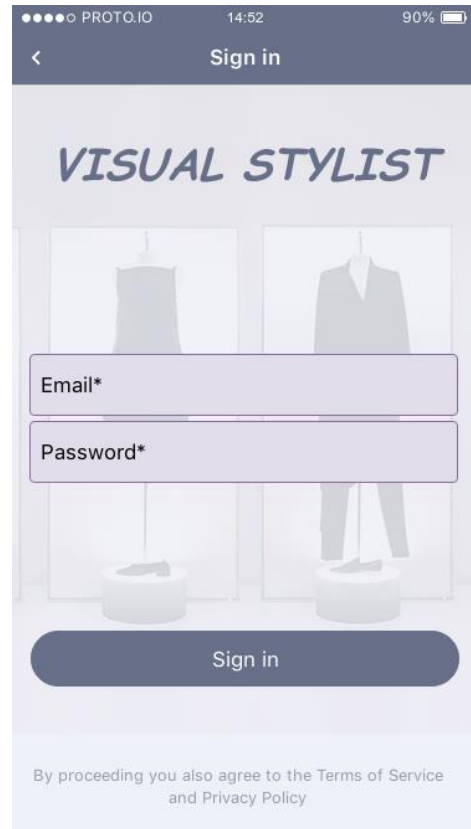
Choose password

Birthday

Gender

Sign up

Already have an account? Sign in



Sign in

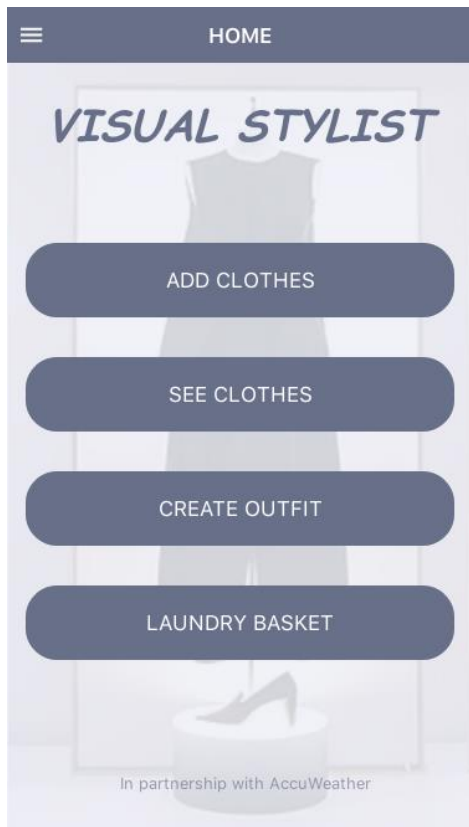
Visual Stylist

Email*

Password*

Sign in

By proceeding you also agree to the Terms of Service and Privacy Policy



HOME

Visual Stylist

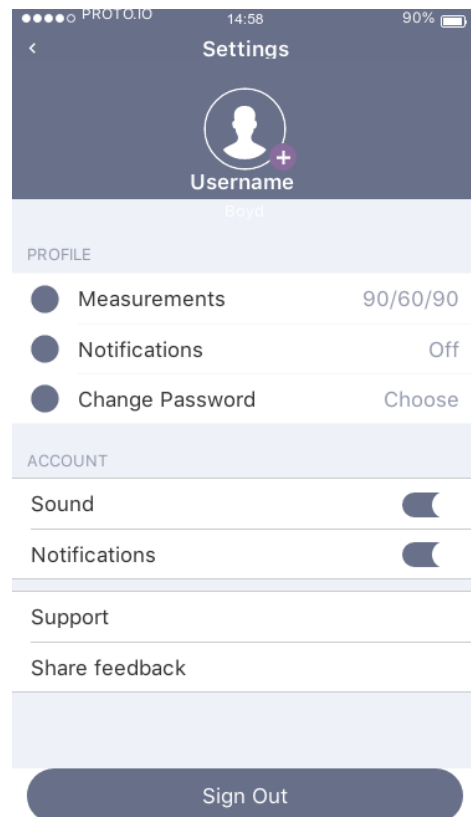
ADD CLOTHES

SEE CLOTHES

CREATE OUTFIT

LAUNDRY BASKET

In partnership with AccuWeather



Settings

Username

Profile

Measurements 90/60/90

Notifications Off

Change Password Choose

Account

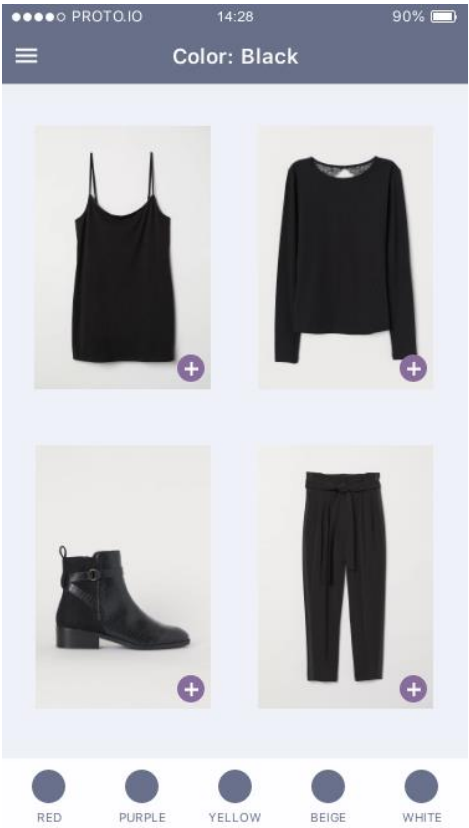
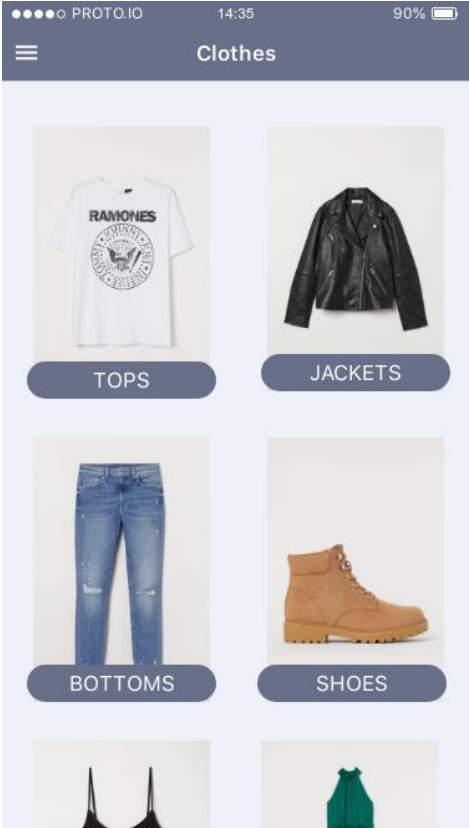
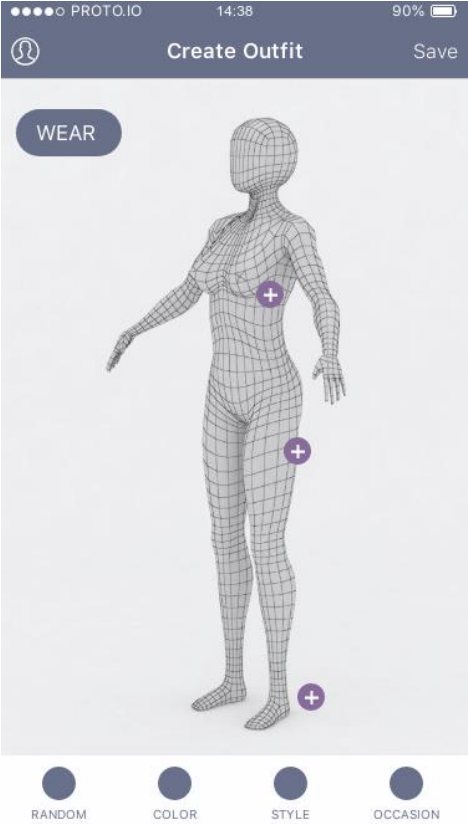
Sound

Notifications

Support

Share feedback

Sign Out



<Describe the logical characteristics of each interface between the software product and the users. This may include sample screen images, any GUI standards or product family style guides that are to be followed, screen layout constraints, standard buttons and functions (e.g., help) that will appear on every screen, keyboard shortcuts, error message display standards, and so on. Define the software components for which a user interface is needed. Details of the user interface design should be documented in a separate user interface specification.>

3.2 Hardware Interfaces

<Describe the logical and physical characteristics of each interface between the software product and the hardware components of the system. This may include the supported device types, the nature of the data and control interactions between the software and the hardware, and communication protocols to be used.>

3.3 Software Interfaces

<Describe the connections between this product and other specific software components (name and version), including databases, operating systems, tools, libraries, and integrated commercial components. Identify the data items or messages coming into the system and going out and describe the purpose of each. Describe the services needed and the nature of communications. Refer to documents that describe detailed application programming interface protocols. Identify data that will be shared across software components. If the data sharing mechanism must be implemented in a specific way (for example, use of a global data area in a multitasking operating system), specify this as an implementation constraint.>

3.4 Communications Interfaces

<Describe the requirements associated with any communications functions required by this product, including e-mail, web browser, network server communications protocols, electronic forms, and so on. Define any pertinent message formatting. Identify any communication standards that will be used, such as FTP or HTTP. Specify any communication security or encryption issues, data transfer rates, and synchronization mechanisms.>

4. System Features

4.1 Users must be registered in order to enter the system.

4.2 Entering the system requires username and password.

4.3 In order to achieve more accurate representation of his own figure, the registered user can:

4.3.1 Scan himself.

4.3.2 Provide information about his measurements (weight, height, etc.)

4.4 If the user does not provide information about his measurements, there will be default 3D figure.

4.5 The registered user has an option to upload a picture (in .jpg format) of his face which will be placed on the user's 3D figure

4.6 The system will detect the registered user's favorite style and favorite color from what he/she has worn the most. Thus the recommender's algorithm improves.

4.7 The system uses information about the weather from AccuWeather.com

4.8 The system provides the user the opportunity to add clothes. It separates them in different categories, such as tops, jackets, bottoms, shoes, dresses, bras and etc.

4.9 The system provides the user the opportunity to see added clothes by categories.

4.10 The system provides the user the opportunity to search for a piece of clothing.

4.11 The system provides the user the opportunity to create outfits. The user can choose from options, such as color, occasion, style and the recommender's random pick.

4.12 The system provides the user the opportunity to save favorite outfits and to select whether the outfit is worn or not.

4.13 The system saves how many times a piece of clothing is worn and displays message (needs to be washed) when it is worn 3 times.

4.14 The system provides the user the opportunity to check laundry basket to see used clothes or to remove them if they are washed.

4.15 A hologram option is available when the device is supported by specific technologies.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

- 5.1.1. The platform must perform equally fast nonetheless the workload.
- 5.1.2. The system should response within 3 milliseconds.
- 5.1.3. The system should be capable of supporting 40 000 customers concurrently.
- 5.1.4. The platform will remain supported through monthly quality updates.

5.2 Safety Requirements

- 5.2.1. Information transmission should be securely transmitted to server without any changes in information.

5.3 Security Requirements

- 5.3.1. System should have login mechanism in order to avoid hacking.
- 5.3.2. System should notify the user when other device logs into the system.

5.4 Software Quality Attributes

- 5.4.1. If the Internet service gets disrupted while sending information to the server, the information can be send again for verification.
- 5.4.2. Guaranteed compatibility with iOS and Android.
- 5.4.3. Guaranteed compatibility with Windows.
- 5.4.4. The system should provide direct access to the main functionalities of the system (such as login, create outfits, see clothes, etc.)
- 5.4.5. System's recovery should be provided within 24 hours.
- 5.4.6. The system provides suitable interface for different devices, such as mobile devices, PC, tablets.
- 5.4.7. The system provides database support: maintenance plan which makes copies of database – registered user's information. Thus the system's functionality is guaranteed and is able to recover in critical situations.

5.5 Business Rules

- 5.5.1. The system should consider General Data Protection Regulation (GDPR).

6. Other Requirements

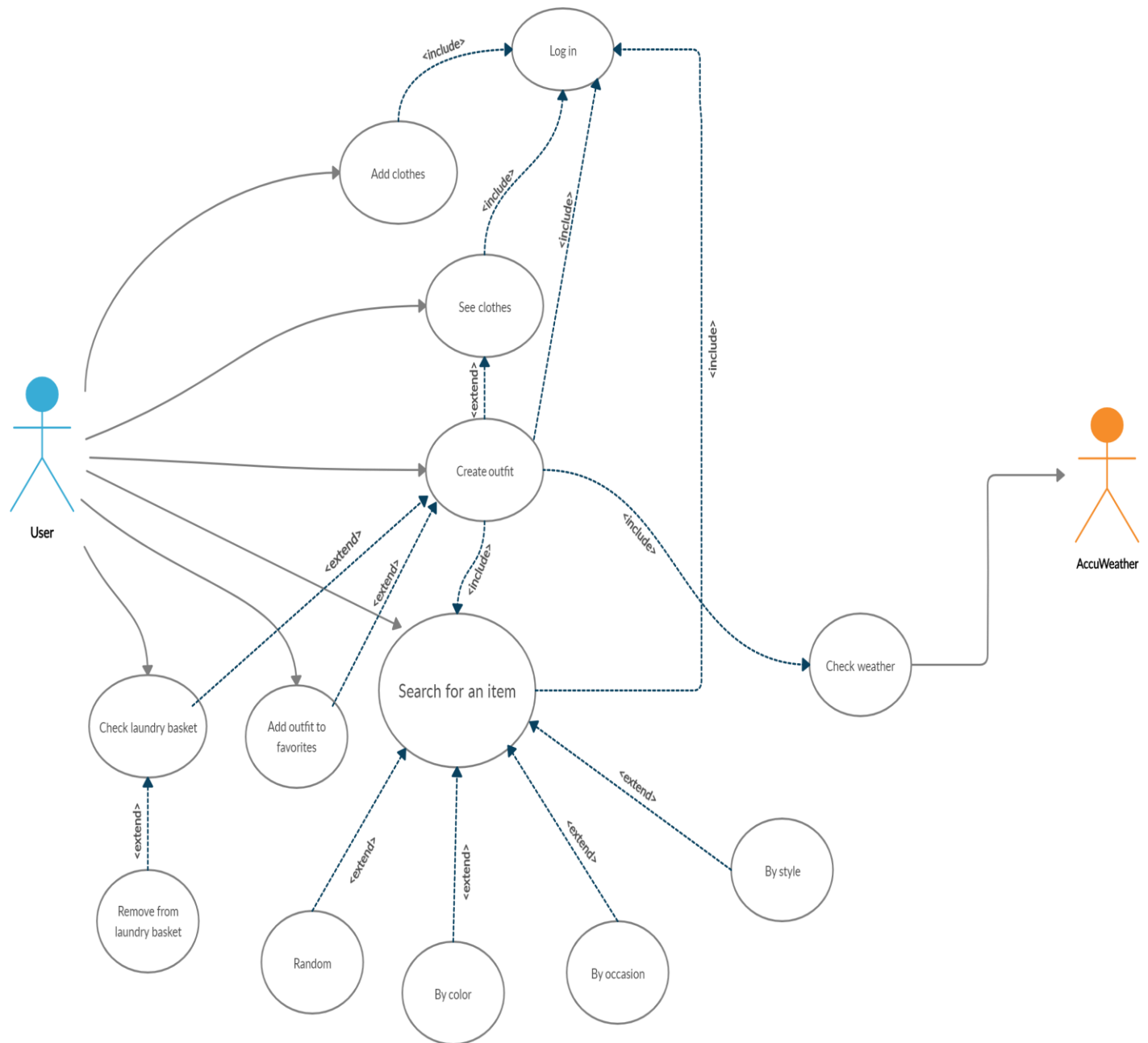
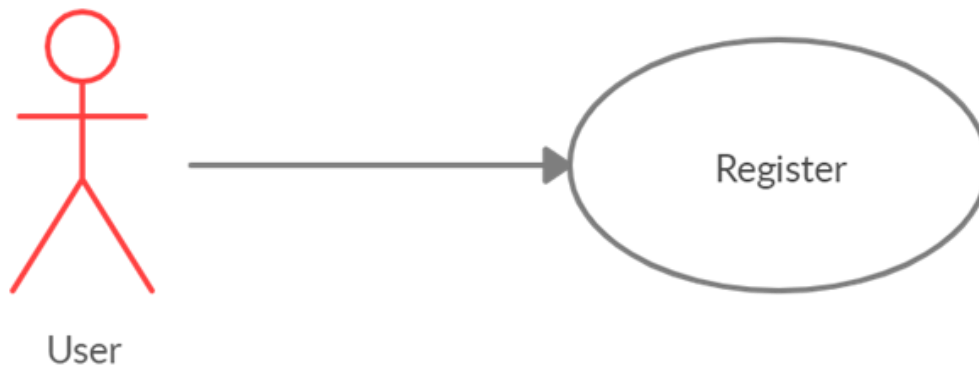
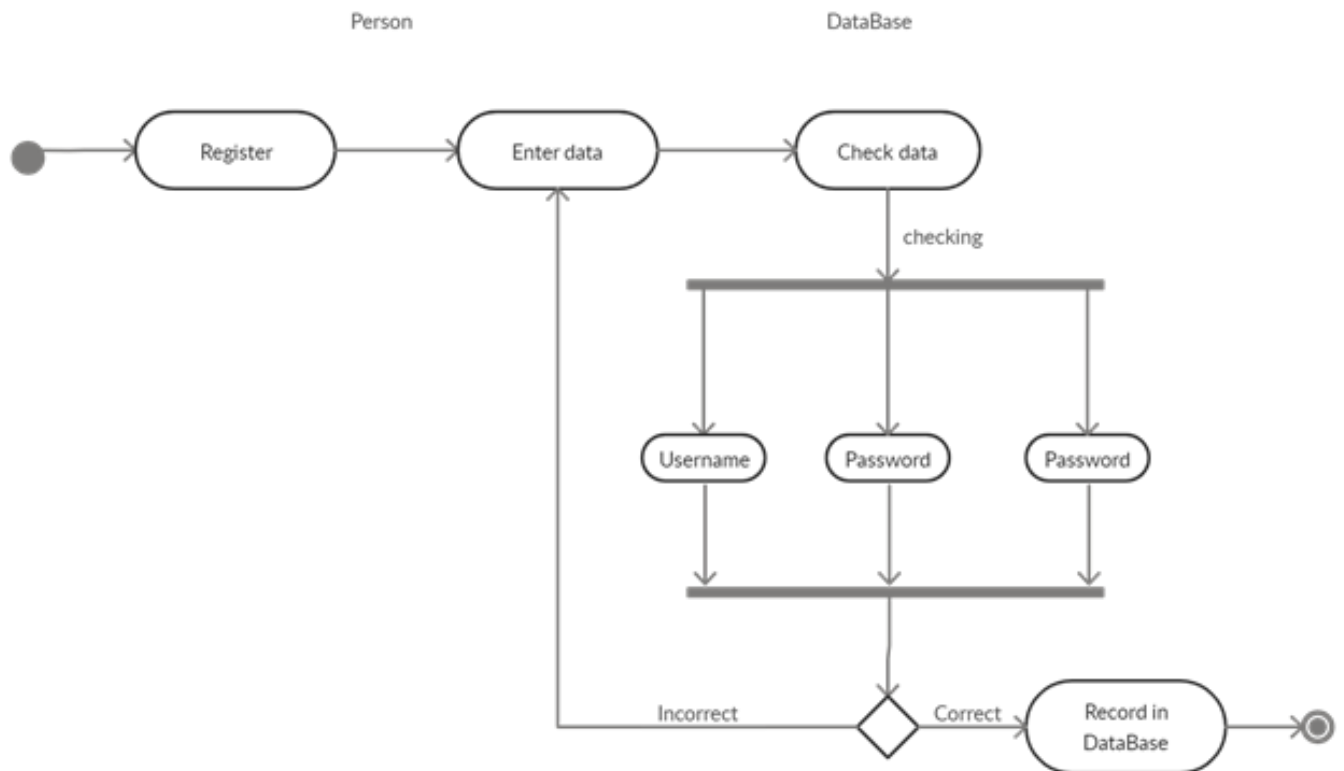
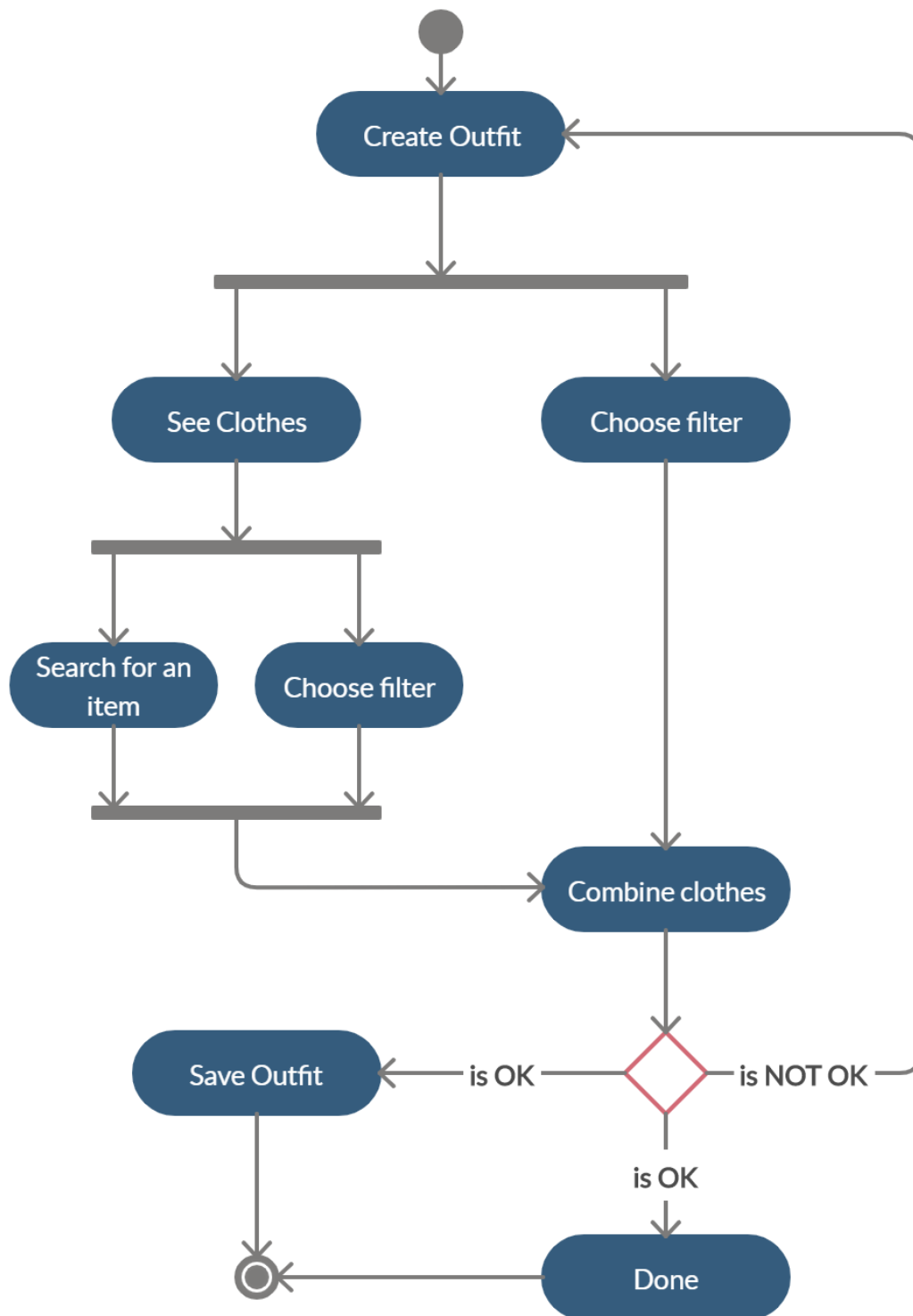
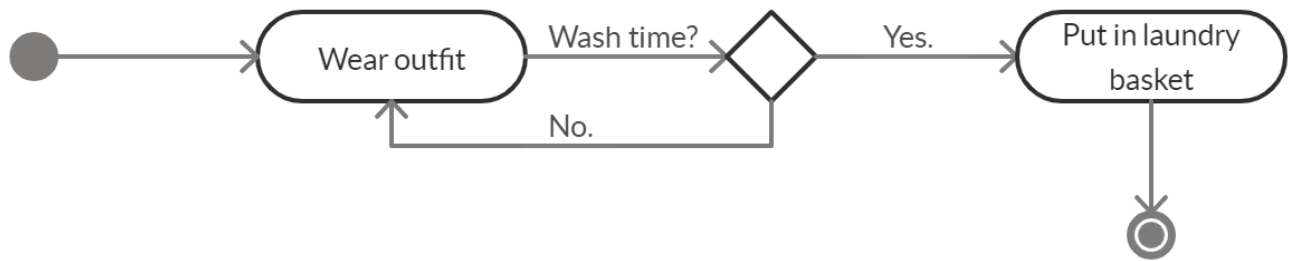
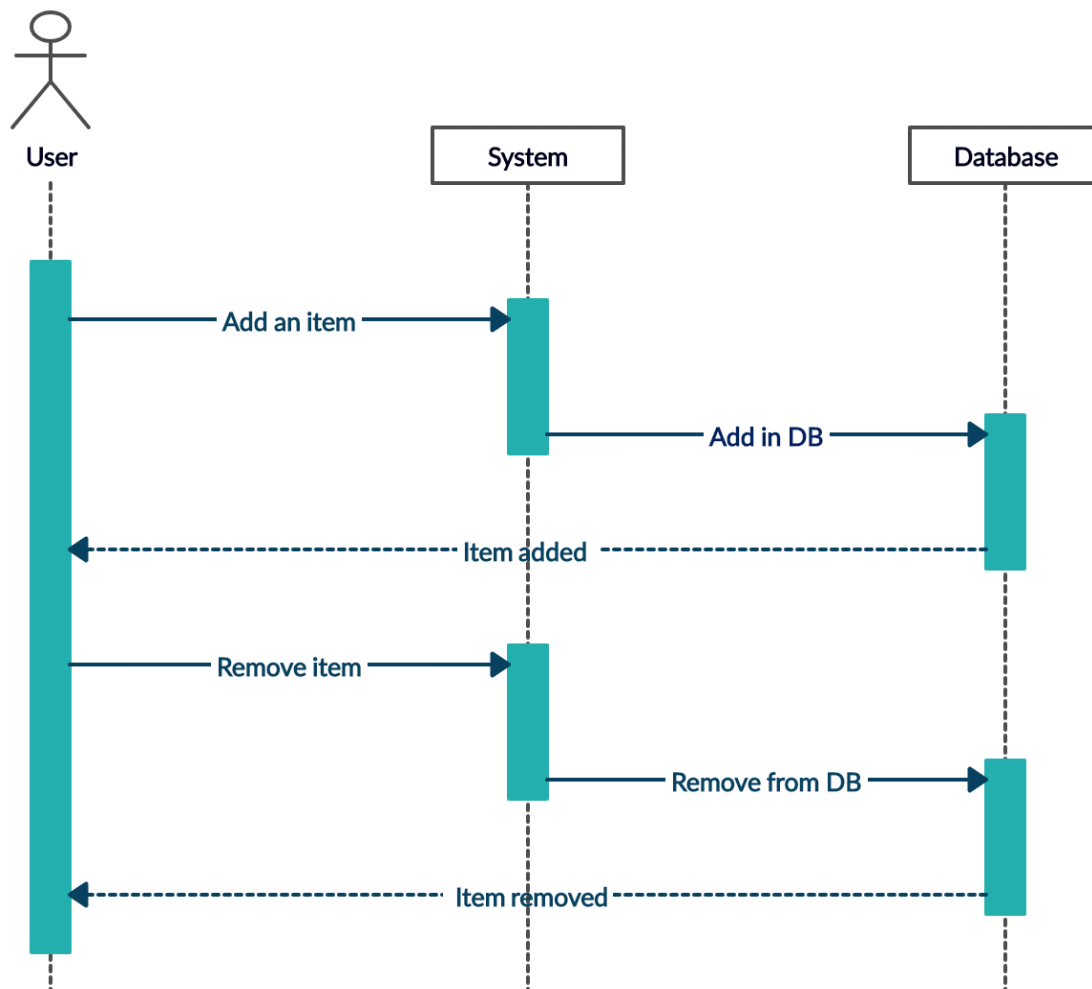
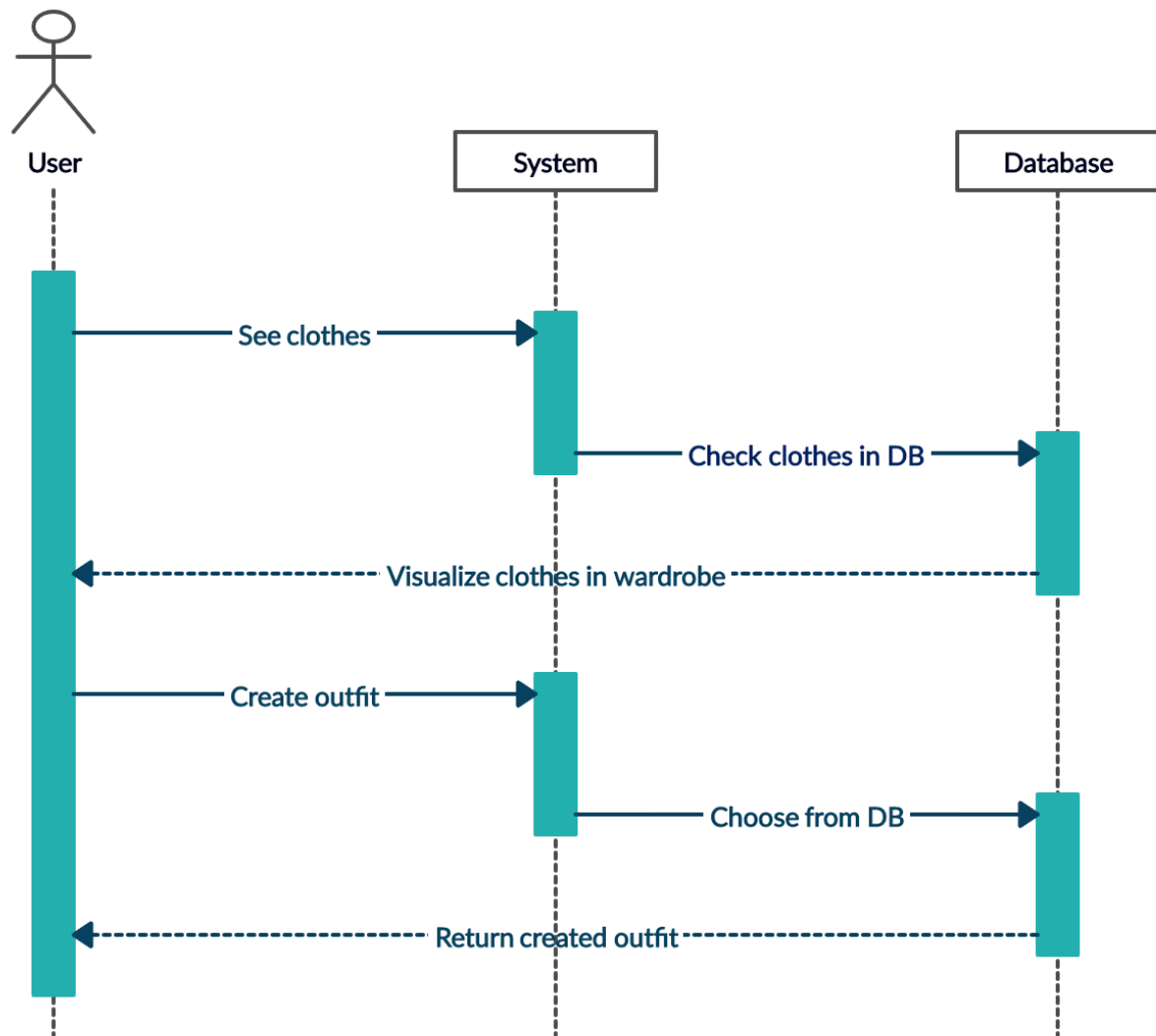


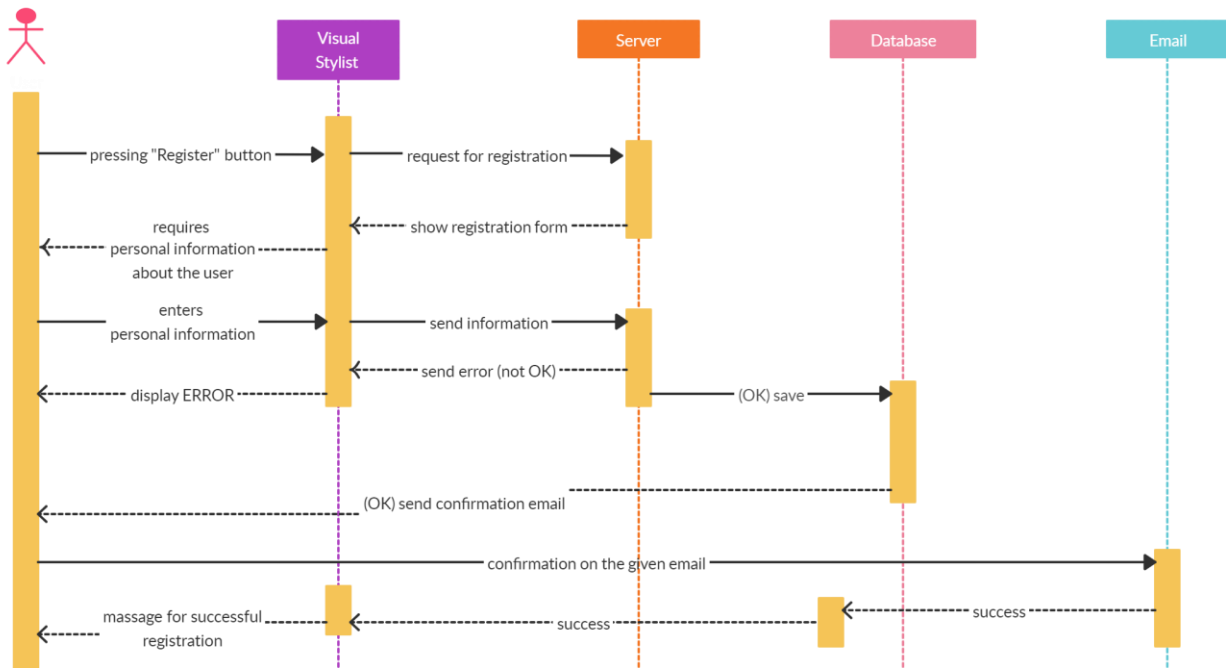
Fig.6.1. Use Case Diagram

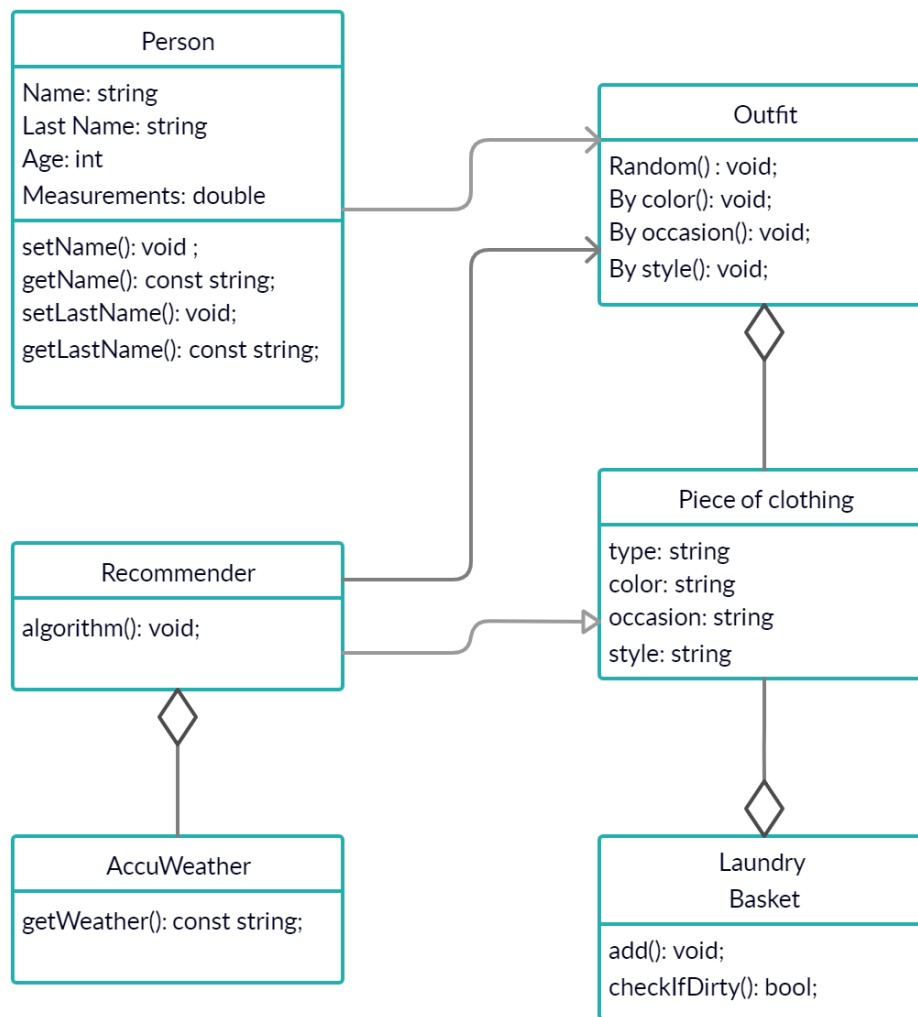
**Fig.6.2. Register Use Case Diagram****Fig.6.3. Register Activity Diagram**

**Fig.6.4. Create outfit Activity Diagram**

**Fig.6.5. Laundry basket Activity Diagram****Fig.6.6. Add piece of clothing Sequence Diagram**

**Fig.6.7. Create outfit Sequence Diagram**

**Fig.6.8. Register Sequence Diagram**

**Fig.6.9. Class Diagram**

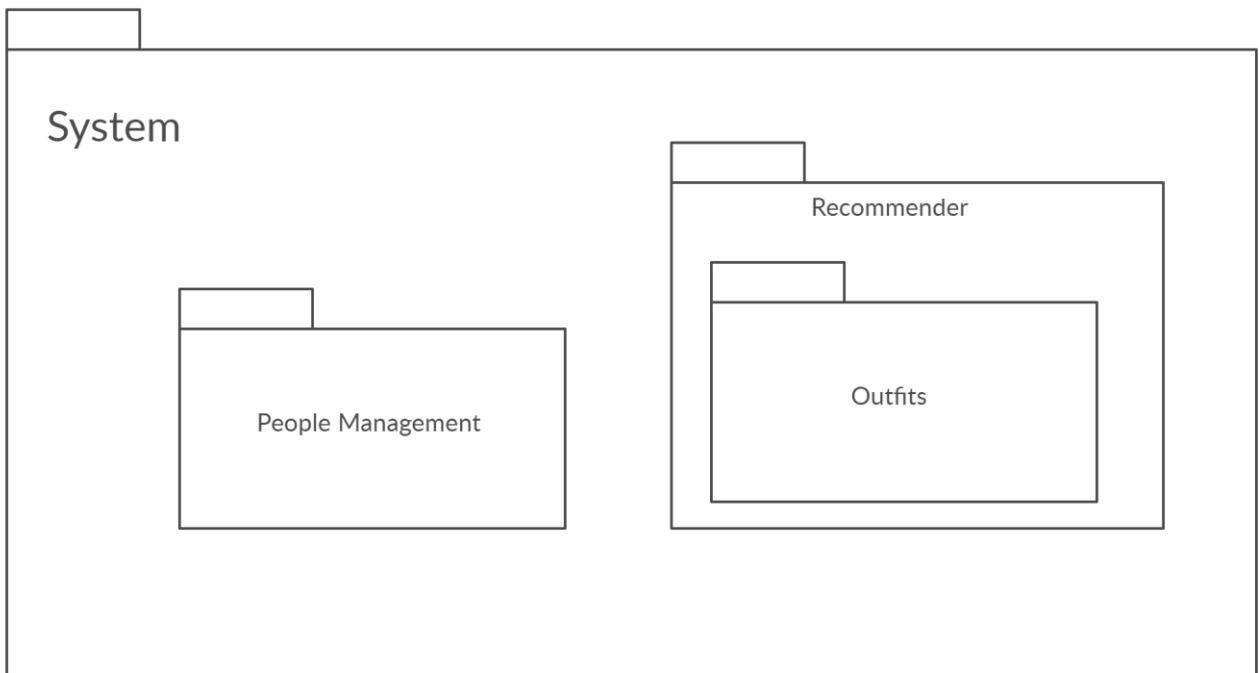


Fig.6.10. Package Diagram

