

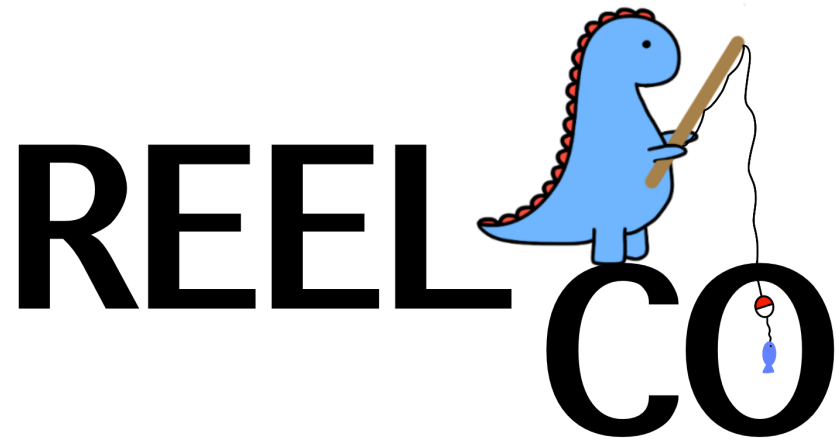
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**REEL COLOSET**  
**Use-Case-Realization Specification**

**Version <1.3>**



REEL COLOSET	Version: <1.3>
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REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucra	

## Table of Contents

<b>1. Introduction</b>	<b>7</b>
1.1 Purpose	7
1.2 Scope	7
1.3 Definitions, Acronyms, and Abbreviations	7
1.4 References	7
1.5 Overview	7
<b>2. USE CASE &lt;Create Account&gt;</b>	<b>8</b>
2.1 Brief Description	8
2.2 Flow of Events - Design	8
2.3 Interaction Diagrams	8
2.3.1 Sequence Diagrams	8
2.3.2 Participating objects	8
2.4 Class Diagrams	9
2.5 Object Diagram	9
2.6 Derived Requirements	9
<b>3. USE CASE &lt;Daily Outfit&gt;</b>	<b>10</b>
3.1 Brief Description	10
3.2 Flow of Events - Design	10
3.3 Interaction Diagrams	10
3.3.1 Sequence Diagrams	10
3.3.2 Participating objects	10
3.4 Class Diagrams	11
3.5 Object Diagram	11
3.6 Derived Requirements	11
<b>4. USE CASE &lt;Laundry&gt;</b>	<b>12</b>
4.1 Brief Description	12
4.2 Flow of Events - Design	12
4.3 Interaction Diagrams	12
4.3.1 Sequence Diagrams	12
4.3.2 Participating objects	12
4.4 Class Diagrams	12
4.5 Object Diagram	13
4.6 Derived Requirements	13
<b>5. USE CASE &lt;Edit Profile&gt;</b>	<b>14</b>
5.1 Brief Description	14
5.2 Flow of Events - Design	14
5.3 Interaction Diagrams	14
5.3.1 Sequence Diagrams	14

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

5.3.2 Participating objects	14
5.4 Class Diagrams	14
5.5 Object Diagram	15
5.6 Derived Requirements	15
<b>6. USE CASE &lt;Closet&gt;</b>	<b>16</b>
6.1 Brief Description	16
6.2 Flow of Events - Design	16
6.3 Interaction Diagrams	16
6.3.1 Sequence Diagrams	16
6.3.2 Participating objects	16
6.4 Class Diagrams	16
6.5 Object Diagram	17
6.6 Derived Requirements	17
<b>7. USE CASE &lt;Login/Logout&gt;</b>	<b>18</b>
7.1 Brief Description	18
7.2 Flow of Events - Design	18
7.3 Interaction Diagrams	18
7.3.1 Sequence Diagrams	18
7.3.2 Participating objects	18
7.4 Class Diagrams	19
7.5 Object Diagram	19
7.6 Derived Requirements	19
<b>8. USE CASE &lt;Login&gt;</b>	<b>20</b>
8.1 Brief Description	20
8.2 Flow of Events - Design	20
8.3 Interaction Diagrams	20
8.3.1 Sequence Diagrams	20
8.3.2 Participating objects	20
8.4 Class Diagrams	21
8.5 Object Diagram	21
8.6 Derived Requirements	21
<b>9. USE CASE &lt;Logout&gt;</b>	<b>22</b>
9.1 Brief Description	22
9.2 Flow of Events - Design	22
9.3 Interaction Diagrams	22
9.3.1 Sequence Diagrams	22
9.3.2 Participating objects	22
9.4 Class Diagrams	22
9.5 Object Diagram	23

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

## 9.6 Derived Requirements

23

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

## Figures

<b>Figure 1 :</b>	<b>Sequence Diagram : Create Account.....</b>	<b>8</b>
<b>Figure 2 :</b>	<b>REEL COLOSET Class Diagram.....</b>	<b>9</b>
<b>Figure 3 :</b>	<b>Object Diagram : Create Account.....</b>	<b>9</b>
<b>Figure 4 :</b>	<b>Sequence Diagram : Daily Outfit.....</b>	<b>10</b>
<b>Figure 5 :</b>	<b>Object Diagram : Daily Outfit.....</b>	<b>11</b>
<b>Figure 6 :</b>	<b>Sequence Diagram : Laundry.....</b>	<b>12</b>
<b>Figure 7 :</b>	<b>Object Diagram : Laundry.....</b>	<b>13</b>
<b>Figure 8 :</b>	<b>Sequence Diagram : Edit Profile.....</b>	<b>14</b>
<b>Figure 9 :</b>	<b>Object Diagram : Edit Profile.....</b>	<b>15</b>
<b>Figure 10 :</b>	<b>Sequence Diagram : Closet.....</b>	<b>16</b>
<b>Figure 11 :</b>	<b>Object Diagram : Closet.....</b>	<b>17</b>
<b>Figure 12 :</b>	<b>Sequence Diagram : Login/Logout.....</b>	<b>18</b>
<b>Figure 13 :</b>	<b>Object Diagram : Login/Logout.....</b>	<b>19</b>
<b>Figure 14 :</b>	<b>Sequence Diagram : Login.....</b>	<b>20</b>
<b>Figure 15 :</b>	<b>Object Diagram : Login.....</b>	<b>21</b>
<b>Figure 16 :</b>	<b>Sequence Diagram: Logout.....</b>	<b>22</b>
<b>Figure 17 :</b>	<b>Object Diagram : Logout.....</b>	<b>23</b>

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

# Use-Case-Realization Specification

## 1. Introduction

The Use-Case Realization Specification includes the purpose, scope, definitions, acronyms, abbreviations, references, and overview of this Use-Case Realization Specification.

### 1.1 Purpose

This document provides a comprehensive overview of the system, using a number of different diagrams for representing the system functions.

### 1.2 Scope

This Use-Case-Realization Specification provides an overview of the REEL COLOSET (RC) use cases. RC allows consumers to create an account, input their city, and input the clothing items in their closet. Then RC will generate a daily outfit based on the weather of the city the consumer's account has inputted. This product is helpful for minimizing time selecting outfits as well as providing insightful advice for creating more functional outfits.

### 1.3 Definitions, Acronyms, and Abbreviations

See Glossary, which is the upedu\_gloss\_10-02.pdf document.

### 1.4 References

1. REEL COLOSET - Glossary
2. REEL COLOSET - Use Case Specification
3. REEL COLOSET - Supplementary Specification

### 1.5 Overview

The sections of the Use-Case Realization document describe use cases in terms of their flow of events, participant objects and corresponding diagrams.

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

## 2. USE CASE <Create Account>

### 2.1 Brief Description

Allows a new user to create an account for their own REEL COLOSET.

### 2.2 Flow of Events - Design

Upon navigating to the REEL COLOSET website the user can create an account.

### 2.3 Interaction Diagrams

- The user navigates to create an account on the website
- The user then inputs their email and creates a password which is stored in the database

#### 2.3.1 Sequence Diagrams

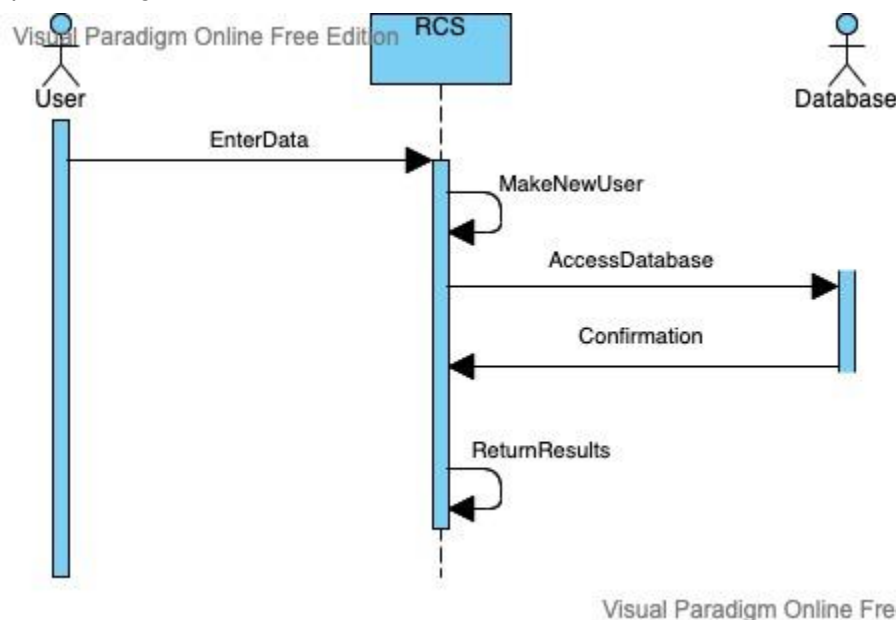


Figure 1: Sequence Diagram: Create Account

#### 2.3.2 Participating objects

Object	Description
REEL COLOSET SYSTEM (RCS)	This object will make a new user, send a request to access the database, and return the results of account creation.



REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucra	

## 2.4 Class Diagrams

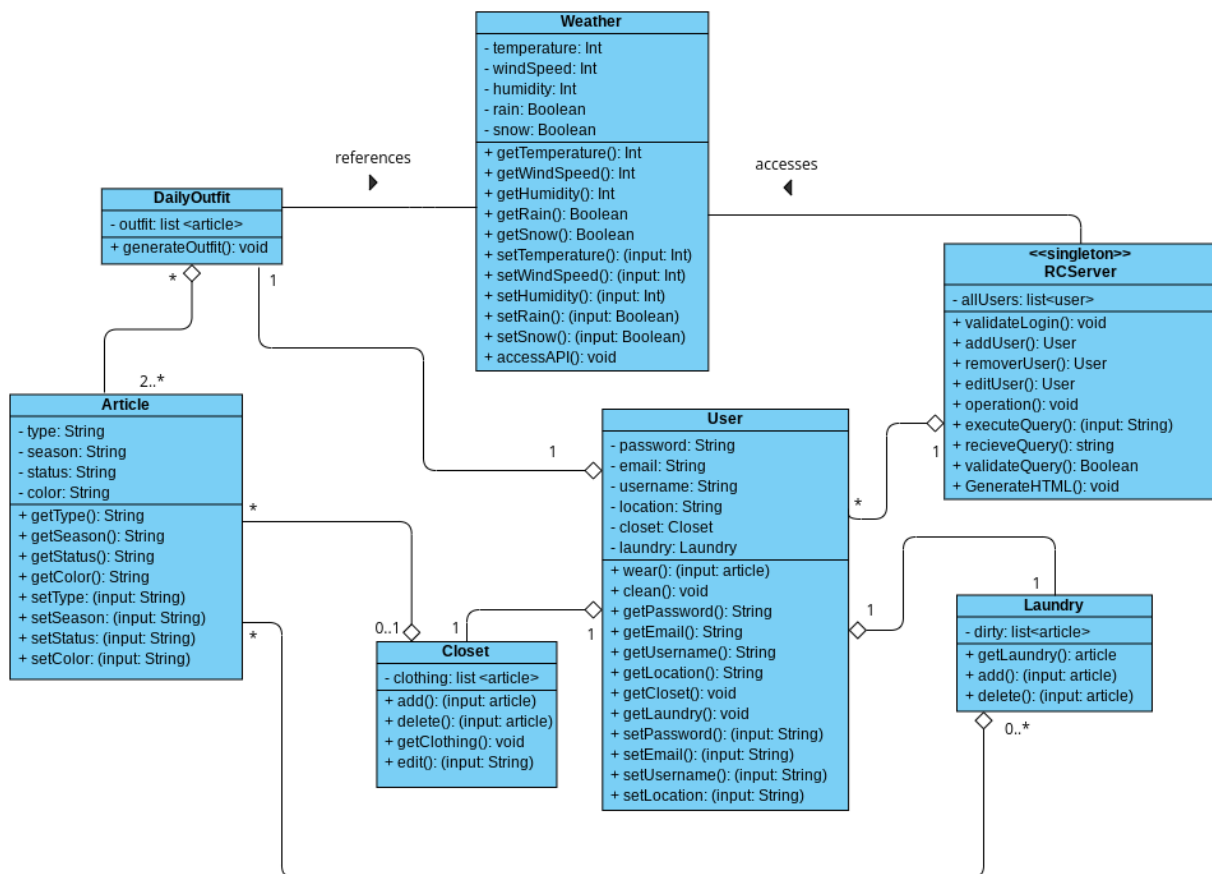


Figure 2: REEL COLOSET Class Diagram

## 2.5 Object Diagram

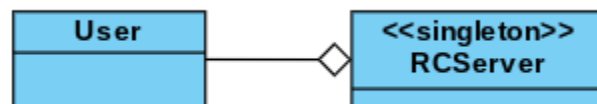


Figure 3: Object Diagram: Create Account

## 2.6 Derived Requirements

A derived requirement is security of the accounts once they are created. Reliability and availability of being able to access your account when the user wants to regardless of the time of day.

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

### 3. USE CASE <Daily Outfit>

#### 3.1 Brief Description

The daily outfit is generated utilizing the weather API and the closet data stored on the database management system.

#### 3.2 Flow of Events - Design

The daily outfit is created by the REEL COLOSET System (RCS). The RCS fetches the weather data from the API and then uses the weather data to retrieve the appropriate clothing lists from the closet database. After receiving the clothing lists the RCS generates an outfit and then displays the outfit page.

#### 3.3 Interaction Diagrams

- The RCS sends a fetch for the weather data from the API
- Then using the weather data the RCS requests appropriate clothing lists from the database
- Then using the clothing lists the outfit is generated
- Then the RCS displays the outfit on the webpage

##### 3.3.1 Sequence Diagrams

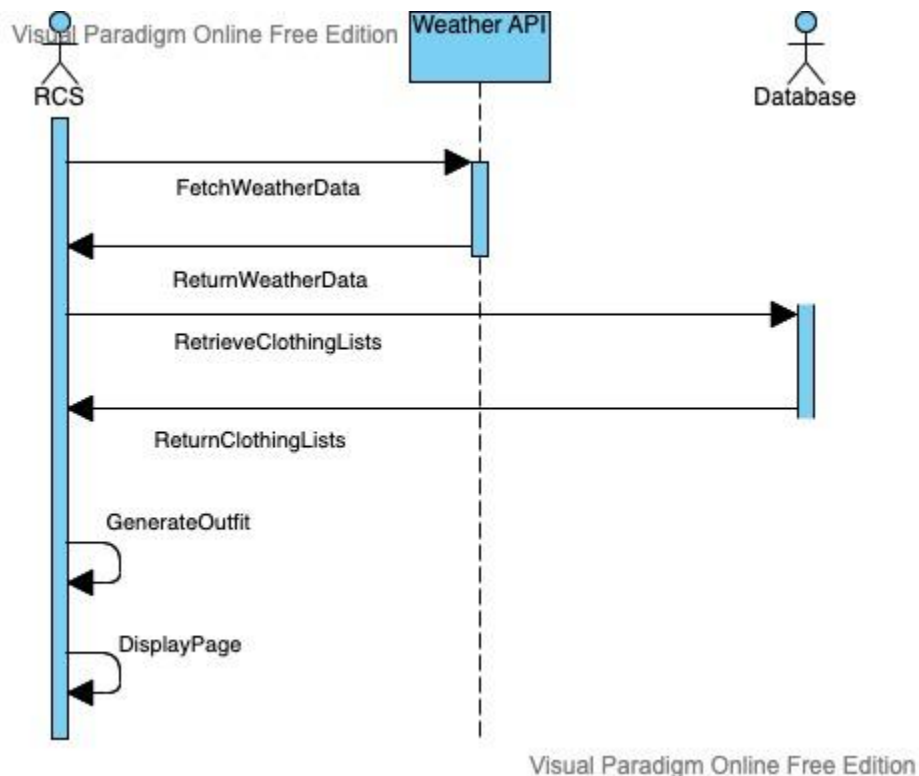


Figure 4: Sequence Diagram: Daily Outfit

##### 3.3.2 Participating objects

Object	Description
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REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

RCS	This object fetches the weather data, retrieves clothing lists, generate outfit, and displays outfit page.
Weather API	This object returns the weather data.

### 3.4 Class Diagrams

See Figure 2

### 3.5 Object Diagram

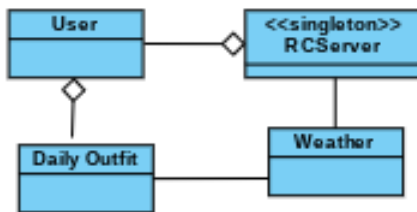


Figure 5: Object Diagram: Daily Outfit

### 3.6 Derived Requirements

Performance of being able to access your daily outfit when the user wants it and not having to wait for it to be created.

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
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## 4. USE CASE <Laundry>

### 4.1 Brief Description

The consumer's laundry is tracked in the database based on what clothes they wear each day.

### 4.2 Flow of Events - Design

The laundry is a list in the database of articles of clothing, the RCS system can retrieve the laundry and display the laundry list to the user.

### 4.3 Interaction Diagrams

- The user clicks on the laundry tab to see their laundry
- The RCS retrieves the laundry list from the database
- The RCS displays on the webpage for the user to see their laundry list

#### 4.3.1 Sequence Diagrams

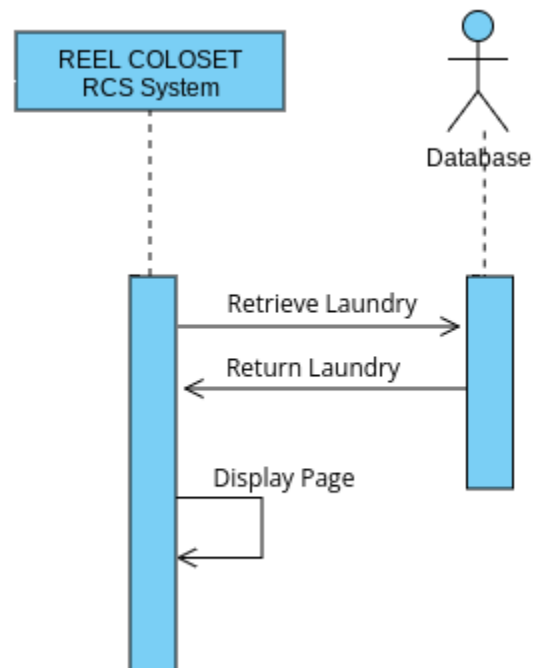


Figure 6: Sequence Diagram: Laundry

#### 4.3.2 Participating objects

Object	Description
RCS	This object retrieves the list of laundry and displays the returned result.

### 4.4 Class Diagrams

See Figure 2

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

#### 4.5 Object Diagram

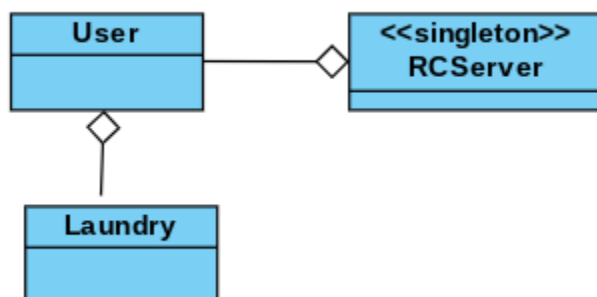


Figure 7: Object Diagram: Laundry

#### 4.6 Derived Requirements

Scalability of being able to have the storage in the database for the laundry list.

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

## 5. USE CASE <Edit Profile>

### 5.1 Brief Description

This function lets the consumer edit the city they want clothing recommendations for as well as edit the originally stated profile information.

### 5.2 Flow of Events - Design

The consumer selects the edit profile section on the application and changes their previous inputs for location and general profile information, such as username and password.

### 5.3 Interaction Diagrams

- The user interacts with the edit profile tab
- The user chooses the information they would like to edit
- The user edits the information which is then changed in the database

#### 5.3.1 Sequence Diagrams

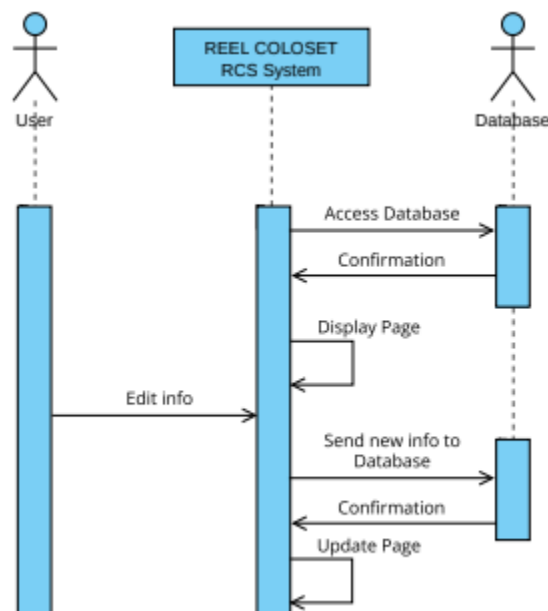


Figure 8: Sequence Diagram: Edit Profile

#### 5.3.2 Participating objects

Object	Description
RCS	This object will access the database, receive confirmation from the database, display the profile, send new information to the database, and update the page with the edited profile.

### 5.4 Class Diagrams

See Figure 2

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

## 5.5 Object Diagram

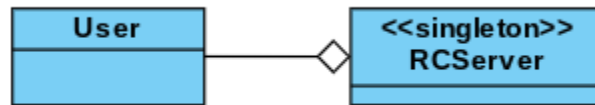


Figure 9: Object Diagram: Edit Profile

## 5.6 Derived Requirements

The derived requirements are the security of the accounts and the edited/updated information, and the performance of updating the account that the user can use right after editing their profile.

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

## 6. USE CASE <Closet>

### 6.1 Brief Description

The consumer can input the items in their closet for the daily outfit to pick from items in their actual closet.

### 6.2 Flow of Events - Design

The closet stores lists of clothing in the database, the RCS retrieves the closet from the database, and then displays the closet.

### 6.3 Interaction Diagrams

- The user can request to see the list of their closet
- The RCS retrieves the closet list
- Then the RCS displays the closet for the user to see on the webpage

#### 6.3.1 Sequence Diagrams

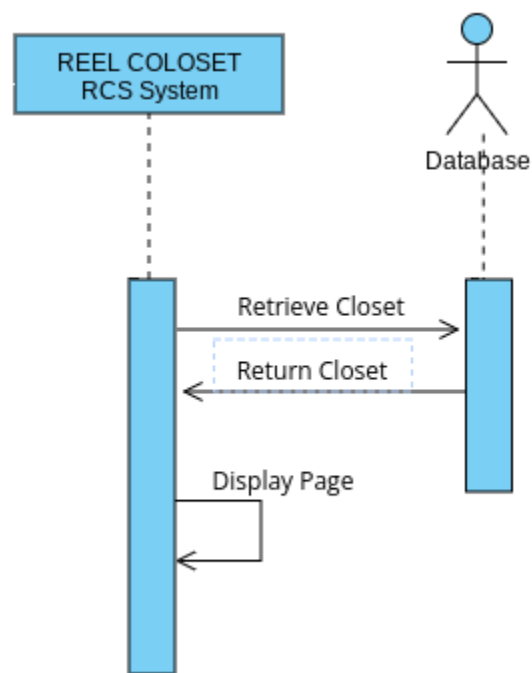


Figure 10: Sequence Diagram: Closet

#### 6.3.2 Participating objects

Object	Description
RCS	This object retrieves the list of clothing in the closet and displays the returned result.



REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

#### 6.4 Class Diagrams

See Figure 2

#### 6.5 Object Diagram

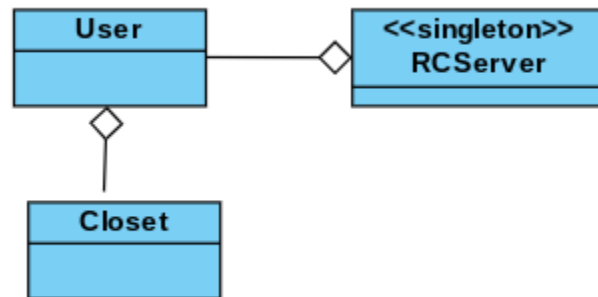


Figure 11: Object Diagram: Closet

#### 6.6 Derived Requirements

The scalability of the closet to include however many clothes is in the user's closet and not running out of space. The usability, reliability, and availability of being able to access the closet and add/delete clothes in a timely and reasonable manner.

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

## 7. USE CASE <Login/Logout>

### 7.1 Brief Description

Login/Logout facilitates the consumer to execute their desired event when leaving or entering their account through the login/logout system.

### 7.2 Flow of Events - Design

The user provides their username and password and submits the form. Data is validated and login process is activated. The user exits the application by using the appropriate End Session button. Query is validated and logout process is activated.

### 7.3 Interaction Diagrams

- The RC sends the query to the login/logout system for validation
- The login/logout system returns the status of being logged in or logged out

#### 7.3.1 Sequence Diagrams

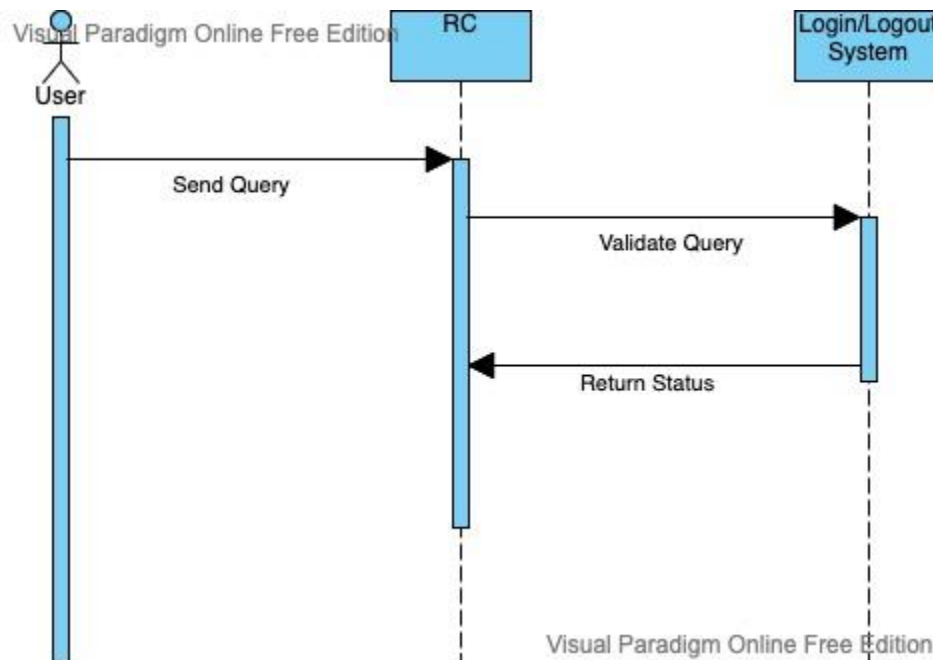


Figure 12: Sequence Diagram: Login/Logout

#### 7.3.2 Participating objects

Object	Description
Login Logout System	Handles the execution of logging in and logging out in reference to the database.
REEL COLOSET (RC)	The user sends the query to the RC system and it accepts the return status.

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

#### 7.4 Class Diagrams

See Figure 2

#### 7.5 Object Diagram

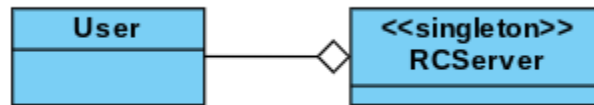


Figure 13: Object Diagram: Login/Logout

#### 7.6 Derived Requirements

Having the security of the accounts so that the user can safely log in and log out when they want to. Also having the program be available in order to log in and log out when they wish.

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucra	

## 8. USE CASE <Login>

### 8.1 Brief Description

Allows all consumers to access their RC accounts where their closet, laundry, and profile information are kept. Consumers will be prompted to enter their username and password to access their account and if successful will be able to interact with the website.

### 8.2 Flow of Events - Design

The user enters their username and password and submits the form. Data is validated and login process is

activated.

### 8.3 Interaction Diagrams

- The user will navigate to the login section of the webpage
- The user will input their email and password
- The RCS will validate and execute the query
- Then the database sends the confirmation to the RCS system
- Then the RCS will load the user's profile if the query is successful

#### 8.3.1 Sequence Diagrams

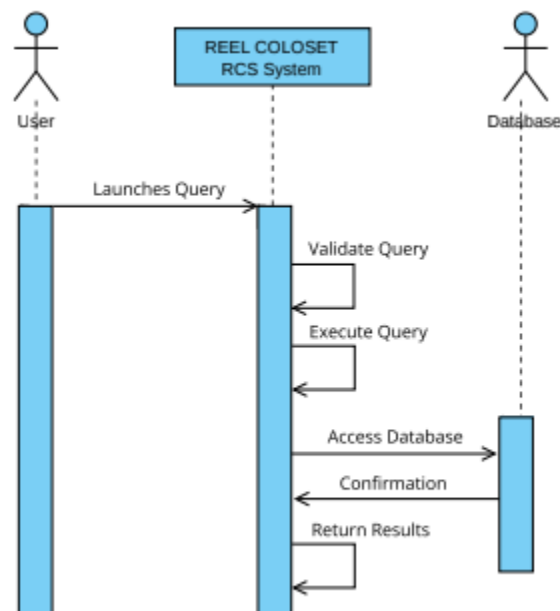


Figure 14: Sequence Diagram: Login

#### 8.3.2 Participating objects

Object	Description
REEL	This object represents the system that the user

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

COLOSET System (RCS)	interacts with and also interacts with the database.
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#### 8.4 Class Diagram

See Figure 2

#### 8.5 Object Diagram

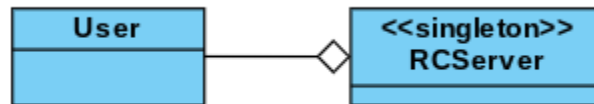


Figure 15: Object Diagram: Login

#### 8.6 Derived Requirements

The performance and reliability of the program need to be high enough so that the user can log in quickly and not have to wait long for their account to load.

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

## 9. USE CASE <Logout>

### 9.1 Brief Description

Allows the consumer to end their session with the website.

### 9.2 Flow of Events - Design

The user exits the application by clicking the logout button. The query is validated and the logout process is activated.

### 9.3 Interaction Diagrams

- The user clicks the tab to logout
- The query is sent to the RCS and is validated and executed
- Then the RCS sends out for confirmation from the database
- Then the result of being logged out is returned

#### 9.3.1 Sequence Diagrams

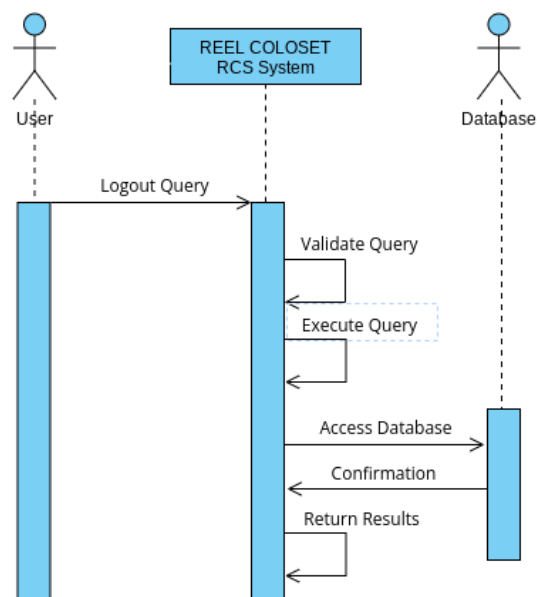


Figure 16: Sequence Diagram: Logout

#### 9.3.2 Participating objects

Object	Description
REEL COLOSET System (RCS)	This object represents the system that the user interacts with and also interacts with the database.

## 9.4 Class Diagram

See Figure 2

REEL COLOSET	Version: <1.3>
Use-Case-Realization Specification	Issue Date: <10/23/2022>
upedu ucrea	

## 9.5 Object Diagram

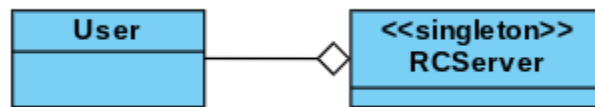


Figure 17: Object Diagram: Logout

## 9.6 Derived Requirements

A derived requirement is being able to log out of a user account securely. Another non-functional requirement would be needing the program to be reliable and available to log out of an account anytime the user wants to.