**FINAL PROJECT DOCUMENTATION**

**Dressify**

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**2025**

**Gujrat Institute of Management Sciences**  
**PMAS-Arid Agriculture University, Rawalpindi**

**Dressify**

Project submitted to

Department of Software Engineering

Gujrat Institute of Management Sciences

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In partial fulfillment of the requirements for the degree of

(BSSE (Hons.))

**Gujrat Institute of Management Sciences**  
**PMAS-Arid Agriculture University, Rawalpindi**

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| **Project ID** | GIMS-BSSE-F202019 |

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| **Dated: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

# Dedication

To our fathers,

“To My Guiding Light, My Source of Strength -My Beloved Father”

To our mothers,

“To the One Whose Unwavering Support and Kindness guided Me Through Life’s Melodies. Thank You Being My Rock, Mom”

To our Loved Ones,

“For Their Understanding, Tenderness for Keeping Us Motivated to Our Dreams”

To our teacher,

“To Sir Bilal Arshad, Who Kindled Wisdom's Flame Within Us, Guiding My Path with Unwavering Grace and Insight, I Dedicate My Deepest Gratitude and Eternal Appreciation”

~Abeera Noor, Eman Mustafa, Bismah Arshad ~

# Project Summary

|  |  |
| --- | --- |
| **Project Title** | Dressify |
| **Project ID** | GIMS-BSSE-F202019 |
| **Organization** | Gujrat Institute of Management Sciences |
| **Objective** | * To create a robust ecommerce system for online sell and purchase * To enable users to buy items from their home. * To enable users to come across an online ecommerce system. * To provide users with access to a seamless online shopping platform. * To enhance user experience through interactive and smart app features. |
| **Undertaken By** | Abeera Noor 22-Arid-4405, Bismah Arshad 22-Arid-4410 and Eman Mustafa 22-Arid-4413 |
| **Supervised By** | Mr. Bilal Arshad |
| **Date started** | April 25th, 2025 |
| **Date Completed** | May 25th, 2025 |
| **Technologies Used** | Java, XML and Android SDK |
| **System Used** | Window 10,11 |

**Proofreading Certificate**

**This is to acknowledge that the project entitled**

**Dressify [**GIMS-BSSE-F202019**]**

**has been proofread**

**By**

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Lecturer CS, GIMS

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# Declaration

We hereby declare that we developed this project and this report entirely on the basis of our personal efforts made under the sincere guidance of our project supervisor. We further declare that the titled project and all associated documents, reports are submitted as partial requirements for the degree of “**BS (Hons.) in Software Engineering”.**

|  |  |  |
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# Acknowledgement

Our deepest gratitude goes to Allah Almighty who has provided all the resources required for our education. This project was very difficult for us, and we don’t know how easily this project is completed. It’s all because of Allah Almighty help.

We would also like to express our deepest appreciation to our **parents** and our supervisor **Mr. Bilal Arshad.** His support and provide us true guidance.

**Certificate**

This is to certify that **Abeera Noor,** **22-Arid-4405**, **Bismah Arshad,** **22-Arid-4410**, and **Eman Mustafa**, **22-Arid-4413** have successfully completed the final project titled:“ Dressify”, accepted by the Department of Software Engineering/SE and find satisfactory for the requirement of:

**Gujrat Institute of Management Sciences**

**PMAS-Arid Agriculture University Rawalpindi**

**For Award of the Degree**

**BSSE(Hon’s)**

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**Dated:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Abstract

Smartphones have revolutionized the e-commerce industry, enabling consumers to shop conveniently through intuitive mobile applications. This project details the design and development of an Android-based e-commerce platform, crafted to deliver a comprehensive and user-centric online shopping experience. Developed using Java in Android Studio and integrated with Firebase for robust backend functionality, the application supports key features such as user authentication, product browsing, shopping cart management, secure checkout, and order tracking. Firebase’s real-time database, authentication services, and cloud storage ensure seamless data synchronization and scalability, while Android’s versatile ecosystem guarantees compatibility across a wide range of devices. The development process adheres to a systematic software engineering methodology, encompassing requirements specification, system architecture design, implementation, and rigorous testing to ensure functionality, performance, and usability. This project not only demonstrates technical proficiency in mobile application development and backend integration but also lays the groundwork for future enhancements, such as advanced product search algorithms, personalized recommendations, and integration of secure payment gateways. By addressing the growing demand for efficient and accessible e-commerce solutions, this application contributes to the evolving digital marketplace, offering a scalable and user-friendly platform for modern retail needs.

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# List of Abbreviations

|  |  |  |
| --- | --- | --- |
| HCI |  | Human Computer Interaction |
| UI |  | User Interface |
| UX |  | User Experience |
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Chapter 1

Introduction

# 

# Introduction

The advent of mobile technology has fundamentally reshaped the retail landscape, with e-commerce applications becoming essential tools for consumers seeking convenience, accessibility, and efficiency in their shopping experiences. As smartphones continue to dominate daily life, the demand for robust, user-friendly mobile applications has surged, prompting developers to create innovative solutions that cater to modern consumer needs. This project focuses on the development of an Android-based e-commerce application, designed to provide a seamless and intuitive platform for online shopping. Built using Java in Android Studio and integrated with Firebase for backend services, the application aims to deliver core functionalities such as user authentication, product browsing, shopping cart management, and secure order processing, aligning with industry standards set by leading platforms like Amazon and eBay.

The motivation for Dressify stems from the growing significance of mobile e-commerce in the global market, where businesses increasingly rely on mobile apps to connect with customers and drive sales. By leveraging Android’s widespread adoption and Firebase’s scalable infrastructure, this application seeks to address the needs of both consumers and developers, offering a practical solution that balances functionality with ease of use. The project draws inspiration from educational resources, such as online tutorials, which provide structured guidance on building e-commerce applications. These resources emphasize the importance of combining front-end design with robust backend integration to create a cohesive user experience, a principle that guides the development process of this application.

This project serves as a capstone for applying software engineering principles, including requirements analysis, system design, implementation, and testing, to create a fully functional mobile application. It demonstrates proficiency in Android development using Java, a versatile and widely adopted programming language, and Firebase, a powerful backend-as-a-service platform that simplifies data management and authentication.

## Problem Statement

Before The surge in Dressify has increased demand for user-friendly, scalable shopping applications, yet small to medium-sized businesses often lack affordable, customizable solutions. Many existing Android e-commerce apps suffer from poor device compatibility, inadequate backend integration, and unintuitive interfaces, limiting their usability and commercial viability. Additionally, available open-source or tutorial-based solutions often lack robust security, scalability, or comprehensive documentation, making them unsuitable for business deployment.

This project aims to address these challenges by developing an Android e-commerce application using Java and Firebase. The application provides essential features like user authentication, product browsing, shopping cart management, and secure checkout, ensuring seamless user experience across devices. By leveraging Firebase’s real-time database and authentication services, it offers a scalable, secure solution tailored for small businesses, with potential for future enhancements like advanced search and personalization.

## Significance

O This project, developing an Android e-commerce application using Java and Firebase, is significant for providing small to medium-sized businesses with an affordable, scalable platform to establish a digital presence, enhancing customer engagement through features like product browsing, secure authentication, and order processing. It demonstrates proficiency in Android development and Firebase integration, fostering valuable technical skills while adhering to industry standards for usability and security. By enabling businesses to compete in the digital marketplace and offering potential for future enhancements like personalized recommendations, the project contributes to both economic growth and academic research in mobile app development.

## Objectives

The objectives are:

* **Develop a Functional E-commerce Platform**: Create a user-friendly Android application that enables seamless online shopping, incorporating essential features such as user registration, product browsing, shopping cart management, and secure order processing.
* **Integrate Robust Backend Services**: Leverage Firebase for real-time data management, user authentication, and cloud storage to ensure scalability, security, and efficient handling of user and product data.
* **Ensure Cross-Device Compatibility**: Design the application to be responsive and compatible across a wide range of Android devices, providing consistent and intuitive user experience.
* **Apply Software Engineering Principles**: Implement a structured development process, including requirements analysis, system design, implementation, and testing, to produce a reliable and maintainable application.
* **Enhance Developer Skills**: Gain proficiency in Android development using Java, Android Studio, and Firebase integration, fostering technical expertise applicable to real-world mobile app development.
* **Enable Future Scalability**: Build a modular application architecture that supports future enhancements, such as advanced search functionality, personalized recommendations, and payment gateway integration, to meet evolving business needs.
* **Support Small Businesses**: Provide an affordable, customizable e-commerce solution tailored for small to medium-sized businesses, enabling them to establish a competitive digital presence and improve customer engagement.

## Limitations and Restrictions:

There can be various limitations and restrictions that we need to consider. These limitations and restrictions can arise from different sources, including budget constraints, regulatory requirements, resource availability, and more.

Limited payment gateway integration

Dependence on Firebase infrastructure

Basic feature set

Device and platform constraints

Offline functionality limitations

## Overview

This letter should be issued by the concerned organization with the subject; that student will deploy the project in their organization.

|  |
| --- |
| **Project Goal:**  Giving tech community a powerful, robust and enhanced discussion platform where they can easily communicate with each other, share ideas, promote innovations and communicate with like-minded persons. |
| **Type of project:** ¾ R&D **** Development |
| **Project Success criteria:**  All core features (user registration, product browsing, cart management, checkout, admin panel) are fully implemented and operational.Firebase services (authentication, database, storage) are seamlessly integrated, ensuring secure and real-time data handling. |
| Risks of the Project:  |  |  |  |  | | --- | --- | --- | --- | | **(Please mark þ where applicable)** | **Low** | **Medium** | **High** | | Technical risk | **** |  |  | | Timing risk |  | **** |  | | Budget risk |  | **** |  | |
| Organization Details (if any): |
| **Target End users:**  This Project is mainly for business admins and general users who want to sell their products and the users who want to buy all those products from online store. |
| **Development Technology/ Languages:**   * Java * XML * Android SDK |
| **Platform:**  ¾ Web based ¾ Distributed ¾Setup Configurations  ¾Desktop based **** Android ¾iOS  ¾Other\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Project Supervisor: Mr. Bilal Arshad** |

## System Architecture

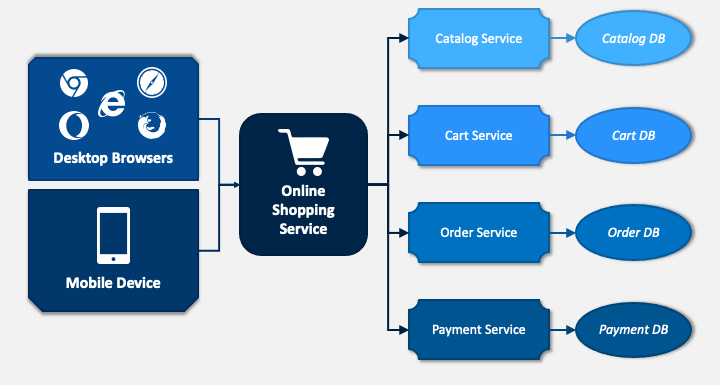


Figure 1.1: System Architecture

## Software/Hardware Requirements

Following are the software and hardware requirements that are necessary to develop and deploy this Platform.

* **Hardware Requirements**
* Hard Drive: 30 GB.
* Dual-core processor or better recommended.
* At least 4 GB RAM, 8 GB RAM recommended.
* **Software Requirements**
  + Windows 10 version 1709 or higher.
  + Windows 11 version 21H2 or higher.
  + Linux

## Implementation Tools and Technology

The application tools, which are to be used on front and back end of the system to be developed, are listed below.

* **Technology:**
* XMLfor frontend.
* JAVA for backend.
* **Application Tools:**
* Android Studio
* **Database:**
* Firebase
* SQLite
* **Documentation:**
* MS Visio
* MS Word
* MS Power Point
* MS Project

## Implementation Plan

### Deliverable Items

1. Project Documentation
2. Frontend Development
3. Backend Development
4. CD
5. User Manual

### Milestone Chart

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Task Name** | **Start** | **End** | **Duration(weeks)** | **May** | | **May** | | | **May** | | **June** | | | **June** | | **June** | | | **June** | | | **June** |
| Project Initiatin | 05/10/2025 | 05/11/2025 | 0.5 |  |  |  | | |  | |  | | |  | |  | | |  | | |  |
| Data Set Collection | 05/12/2025 | 05/18/2025 | 1 |  |  |  |  | |  | |  | | |  | |  | | |  | | |  |
| SRS | 05/19/2025 | 05/25/2025 | 1 |  | |  | |  |  |  |  | | | |  |  | | |  | | |  |
| Design | 05/09/2025 | 10/06/2025 | 1 |  | |  | | |  |  |  |  | |  | |  | | |  | | |  |
| Implementation | 05/26/2025 | 06/01/2025 | 1 |  | |  | | |  | |  | |  |  | |  |  | |  | | |  |
| Product browsing | 06/02/2025 | 06/08/2025 | 1 |  | |  | | |  | |  | | |  | |  | |  |  |  | |  |
| Shopping Cart & checkout | 06/16/2025 | 06/22/2025 | 1 |  | |  | | |  | |  | | |  | |  | | |  | |  |  |

|  |
| --- |
|  |

Figure 1.2: Gantt chart for milestones

Chapter 2

Requirement Analysis

# Requirement Analysis

The purpose of this chapter is to provide detail description of requirements and overview of system requirements before the developing process carried out for system “Dressify”. The requirements of the system were divided into two parts functional and non-functional requirements. The second part of the chapter will describe detail system functionality using “use-cases”.

## Functional Requirements

**For User**

* **User Registration and Authentication:**
* Users create and manage profiles with personal information.
* **Product Browsing:**
* User can Browse products by recommended products.
* **Product Browsing:**
* User can Browse products by recommended products.
* **Add to Cart:**

Users can add products to their cart.

* **Order Placement and Checkout:**
* User can place order from cart.
* **Discover by Categories**
* Users can discover products based on different categories like for men, women, kids and sneakers.
* **Profile Management:**
* Users can manage their profiles information (e.g., name, email, shipping address) and update their password.
* **Trending Products based on area:**
* Users can discover products based on different location, temperatures, and season and weather conditions.

## Non Functional Requirement

* **Performance**: The platform should be responsive and load quickly.
* **Scalability**: The system should handle growth in users and data.
* **Reliability**: Minimal downtime and rapid recovery from failures.
* **Security**: User data must be securely stored and protected.
* **User Experience (UX):** An intuitive and responsive user interface.
* **Internationalization and Localization:** Support for multiple languages and regions.
* **Interoperability:** Integration with third-party services.
* **Maintainability:** Well-documented and easy-to-maintain code.
* **Cross-Browser Compatibility:** Compatibility with major web browsers.
* **Version Control:** Use of a version control system.
* **Documentation:** Comprehensive documentation for all users.
* **Search and Retrieval Performance:** Fast and accurate search results.

## Use Cases

### Login Use Case

*Table 2.1: Login Use Case*

|  |  |
| --- | --- |
| **Use Case Number** | UC-1 |
| **Use Case Name** | UC-Login |
| **Goal** | User log into the system |
| **Primary actor** | Customer |
| **Level** | User, System |
| **Precondition** | 1. The user has a registered account in the system 2. The user has a valid username and password. |
| **Success end** | User successfully login into the system. |
| **Failure and condition** | User does not login in the system. |
| **Main success scenario** | 1. Primary actor clicks on desired Login button in android app. 2. The primary actor enters his credentials and presses the Login button. 3. The system verifies the credentials from the database and move primary actor to the dashboard. |
| **Extensions (error scenarios)** | * If password or email incorrect. * System shows an error message * User tries again. |

### Signup Use Case

*Table 2.2: SignUp Use Case*

|  |  |
| --- | --- |
| **Use Case Number** | UC-2 |
| **Use Case Name** | UC-SignUp |
| **Goal** | User creates a new account in the system. |
| **Primary actor** | Customer |
| **Level** | User, System |
| **Precondition** | User does not have an existing account in system. |
| **Success end** | User successfully creates an account is logged into the system |
| **Failure and condition** | User does not successfully create an account. |
| **Main success scenario** | 1. The customer clicks on the Signup button in the android app. 2. The customer enters their details (e.g., name, email, password) and submits the signup form. 3. The system validates the details provided and stores them in the database. 4. The system confirms successful registration and redirects the customer to the login screen or dashboard. |
| **Extensions (error scenarios)** | 2.a If the email is already registered or the password does not meet requirements (e.g., minimum length):  2.b The system shows an error message.  2.c The customer corrects the details and tries again. |

### Product Browsing Use Case

*Table 2.3: Product Browsing Use Case*

|  |  |
| --- | --- |
| **Use Case Number** | UC-3 |
| **Use Case Name** | UC- Product Browsing |
| **Goal** | Users browsing available products in the system. |
| **Primary actor** | Customer |
| **Level** | User & System |
| **Precondition** | The admin has a registered account in the system.  The admin is logged into the system. |
| **Success end** | Users successfully view a list of available products. |
| **Failure and condition** | Users are unable to view products. |
| **Main success scenario** | 1. The customer navigates to the product browsing section (e.g., home screen or product catalog) in the Dressily app. 2. The system displays a list or grid of available clothing items with details such as images, names, and prices. 3. The customer scrolls through the products and optionally applies filters (e.g., category, size, price) or sorting options (e.g., price low to high). 4. The system updates the displayed products based on the applied filters or sorting preferences. |
| **Extensions (error scenarios)** | 2.a If no products are available or the system fails to load products:  2.b The system shows an error message or a "No products found" message.  2.c The customer refreshes the page or tries different filters. |

### Product Details Use Case

*Table 2.4: Product Details Use Case*

|  |  |
| --- | --- |
| **Use Case Number** | UC-4 |
| **Use Case Name** | UC- Product Details |
| **Goal** | User views detailed information about a specific product. |
| **Primary actor** | Customer |
| **Level** | User, System |
| **Precondition** | User has access to the Android app (logged in or as a guest) and is browsing products. |
| **Success end** | Users can view the product details. |
| **Failure and condition** | Technical Issues/Server Error |
| **Main success scenario** | 1. The customer selects a product from the product browsing section in the Android app. 2. The system displays the product details screen, showing information such as product images, name, price, description, available sizes, colors, and reviews. 3. The customer interacts with the product details (e.g., zooms in on images, selects size or color options). 4. The system updates the display based on the customer’s selections (e.g., shows availability for selected size or color). |
| **Extensions (error scenarios)** | 2.a If the product details fail to load or the product is unavailable:  2.b The system shows an error message or a "Product not available" message.  2.c The customer returns to the product browsing section or refreshes the page. |

### Add to Cart Use Case

*Table 2.5: Add to Cart Use Case*

|  |  |
| --- | --- |
| **Use Case Number** | UC-5 |
| **Use Case Name** | UC- Add to Cart |
| **Goal** | User adds a product to their shopping cart. |
| **Primary actor** | Customer |
| **Level** | User, System |
| **Precondition** | User has access to the Android app (logged in or as a guest) and is viewing a product’s details. |
| **Success end** | Users successfully add the selected product to their shopping cart. |
| **Failure and condition** | User is unable to add the product to the cart. |
| **Main success scenario** | 1. The customer selects a product from the product Android app. 2. The customer chooses product options (e.g., size, color, quantity) and clicks the "Add to Cart" button. 3. The system validates the selected options (e.g., checks availability of size/color). 4. The system adds the product to the customer’s shopping cart and displays a confirmation message. |
| **Extensions (error scenarios)** | 3.a If the selected product options (e.g., size, color) are out of stock or invalid:  3.b The system shows an error message (e.g., "Selected size is out of stock").  3.c The customer selects different options or returns to the product browsing section. |

### Order Placement and Checkout Use Case

*Table 2.6: Order placement and Checkout Use Case*

|  |  |
| --- | --- |
| **Use Case Number** | UC-6 |
| **Use Case Name** | UC- Order Placement and Checkout |
| **Goal** | User places an order and completes the checkout process. |
| **Primary actor** | Customer |
| **Level** | User and system |
| **Precondition** | User has added at least one product to the shopping cart and is logged into the Android app. |
| **Success end** | User successfully places an order and completes the checkout process. |
| **Failure and condition** | The order is not placed successfully. |
| **Main success scenario** | The customer navigates to the shopping cart in the android app and clicks the "Proceed to Checkout" button.  The system displays the checkout screen, showing the cart items, total cost, and fields for shipping and payment information.  The customer enters their shipping address, contact details, and selects a payment method (e.g., credit card, PayPal).  The customer reviews the order details and clicks the "Place Order" button.  The system validates the shipping and payment information, processes the payment, and records the order in the database.  The system displays an order confirmation message and sends a confirmation email to the customer. |
| **Extensions (error scenarios)** | 3.a If the shipping or payment information is invalid (e.g., incorrect address, declined payment):  3.b The customer corrects the information and tries again.  5.a If the payment process fails or the system encounters an error. |

### Profile Management Use Case

*Table 2.7: Profile Management Use Case*

|  |  |
| --- | --- |
| **Use Case Number** | UC-7 |
| **Use Case Name** | UC- Profile Management |
| **Goal** | Users manage their profile information in the system. |
| **Primary actor** | Customer |
| **Level** | User, system |
| **Precondition** | User is logged into the Android app with a registered account. |
| **Success end** | User successfully views or updates their profile information. |
| **Failure and condition** | Some data is invalid leading to failed profile updating. |
| **Main success scenario** | 1. The customer navigates to the profile section in the android app. 2. The system displays the customer’s current profile information (e.g., name, email, phone number, shipping address). 3. The customer selects the option to edit their profile details. 4. The customer updates their information (e.g., name, phone number, address, or password) and submits the changes. 5. The system validates the updated information and saves it to the database. 6. The system displays a confirmation message indicating successful profile update. |
| **Extensions (error scenarios)** | * 4.a If the updated information is invalid (e.g., invalid email format, weak password): * 4.b The system shows an error message (e.g., "Invalid email format" or "Password does not meet requirements"). * 4.c The customer corrects the information and tries again. * 5.a If the system fails to save the updated information due to a technical issue: * 5.b The system shows an error message (e.g., "Failed to update profile"). |

### Trending Products based on Area Use Case

*Table 2.8: Trending Products Based on Area Use Case*

|  |  |
| --- | --- |
| **Use Case Number** | UC-8 |
| **Use Case Name** | UC- Trending Products based on Area Use Case |
| **Goal** | User views trending products specific to their geographical area. |
| **Primary actor** | Customer |
| **Level** | User, System |
| **Precondition** | User has access to the android app (logged in or as a guest) and has granted location access or set a preferred area. |
| **Success end** | User successfully views a list of trending products based on their area. |
| **Failure and condition** | Users are unable to view trending products based on their area. |
| **Main success scenario** | The customer navigates to the trending products section in the Dressify app.  The system retrieves the customer’s location (via device GPS or user-selected area).  The system fetches trending products for the customer’s area from the database, based on factors like sales, views, or regional popularity.  The system displays a list or grid of trending products with details such as images, names, and prices.  The customer scrolls through the trending products and optionally interacts with them (e.g., views details or adds to the cart). |
| **Extensions (error scenarios)** | 2.a If the system cannot access the customer’s location or no area is set:  2.b The system prompts the customer to enable location services or manually select an area.  2.c The customer provides the required location information and tries again. |

### Quote of the day Use Case

*Table 2.9: Quote of the day Use Case*

|  |  |
| --- | --- |
| **Use Case Number** | UC-9 |
| **Use Case Name** | UC- Quote of the day |
| **Goal** | The goal is to create and provide the login to the Groups. |
| **Primary actor** | Customer |
| **Level** | User, System |
| **Precondition** | User has access to the Android app (logged in or as a guest). |
| **Success end** | User successfully views the quote of the day. |
| **Failure and condition** | User is unable to view the quote of the day. |
| **Main success scenario** | 1. The customer opens the Android app or navigates to a designated section (e.g., home screen or inspiration tab). 2. The system retrieves the quote of the day from an external API. 3. The system displays the quote of the day, including the quote text and any associated visuals (e.g., background image or styling). 4. The customer views the quote and optionally interacts with it (e.g., shares it on social media). |
| **Extensions (error scenarios)** | 2.a If the system fails to retrieve the quote of the day due to a database or network issue:  2.b The system shows an error message (e.g., "Unable to load quote of the day").  2.c The customer refreshes the page or tries again later. |

### 2.3.10 Browse by Category Use Case

*2.10 Browse by Category Use Case*

|  |  |
| --- | --- |
| **Use Case Number** | UC-10 |
| **Use Case Name** | UC- Browse by Category |
| **Goal** | User views products organized by a selected category. |
| **Primary actor** | Customer |
| **Level** | User, system |
| **Precondition** | User has access to the Android app (logged in or as a guest). |
| **Success end** | User successfully views a list of products in the selected category. |
| **Failure and condition** | User is unable to view products in the selected category. |
| **Main success scenario** | The customer navigates to the category section (e.g., home screen or category menu) in the Dressify app.  The system displays a list of available product categories (e.g., men’s clothing, women’s clothing, accessories).  The customer selects a specific category (e.g., women’s dresses).  The system retrieves products for the selected category from the database.  The system displays a list or grid of products in the selected category with details such as images, names, and prices.  The customer scrolls through the products and optionally interacts with them (e.g., views details or adds to cart). |
| **Extensions (error scenarios)** | 4.a If no products are available in the selected category or the system fails to load data:  4.b The system shows an error message (e.g., "No products available in this category" or "Failed to load products").  4.c The customer selects a different category or refreshes the page. |

Chapter 3

Design

# DESIGN

## UML Diagrams

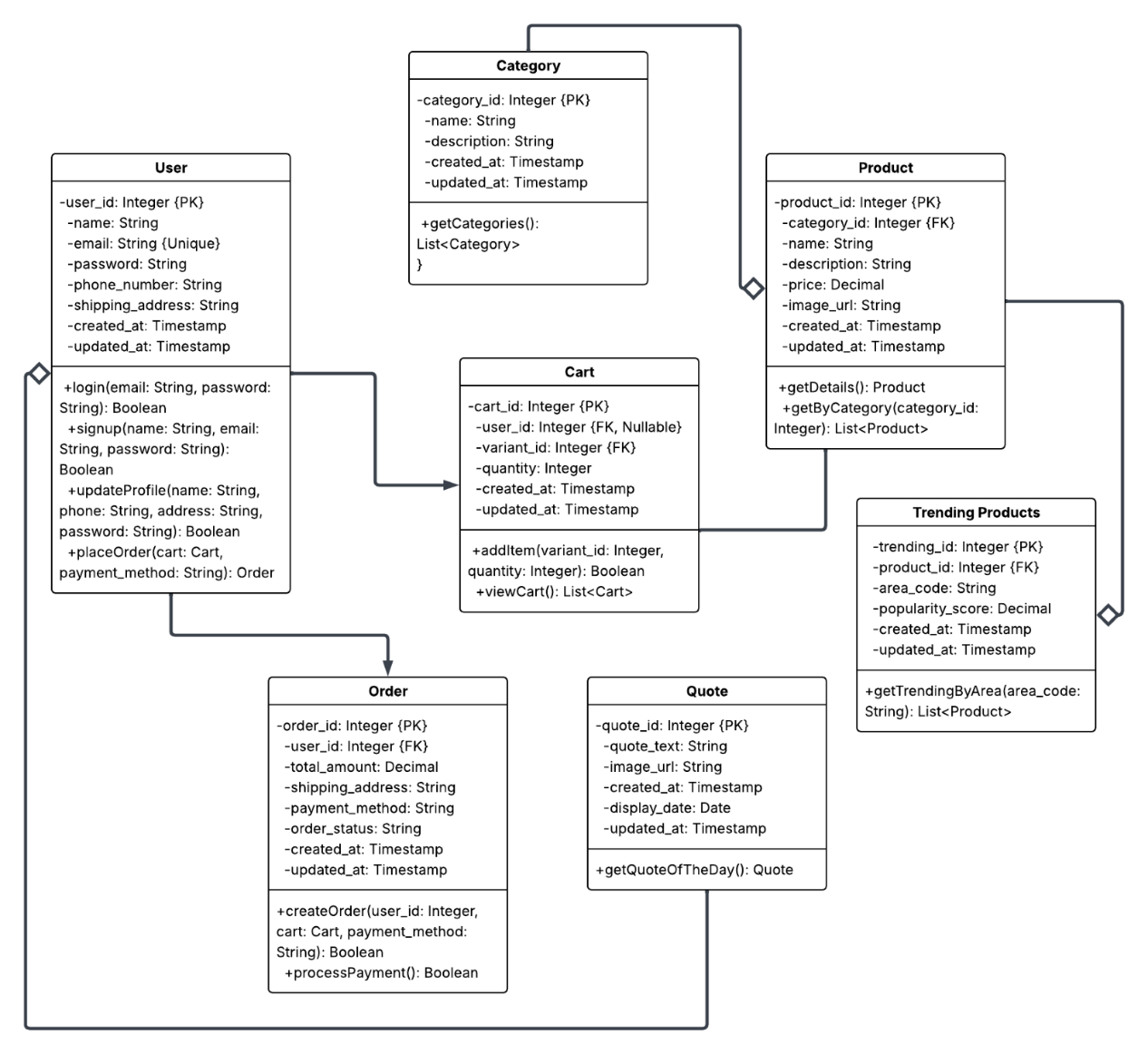
## Use-Case Diagram

### Use-Case Diagram for Dressify

|  |
| --- |
| Picture 23, Picture |

Figure 3.1:Use-Case Diagram for Dressify

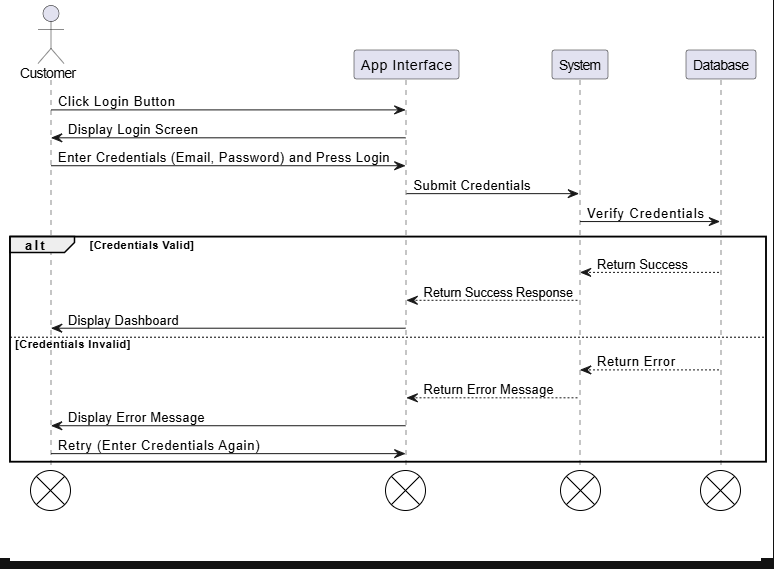
## Class Diagram



*Figure:3.5 Class Diagram*

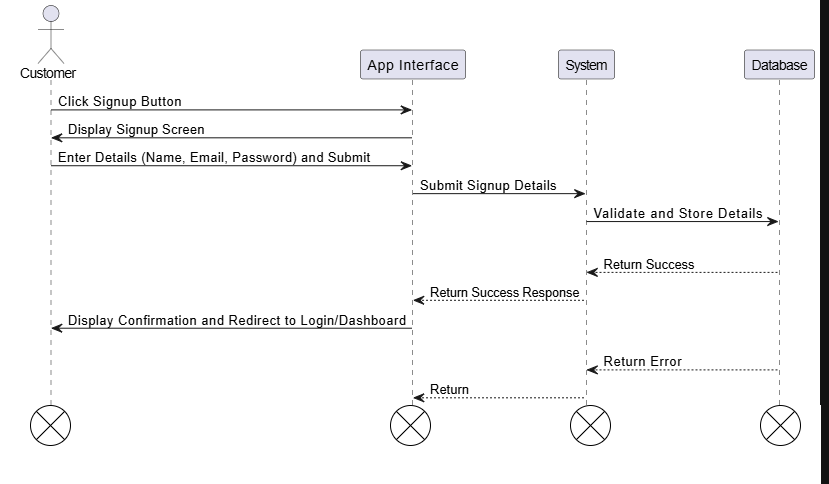
## Sequence Diagrams

### Login for Customer sequence diagram

****

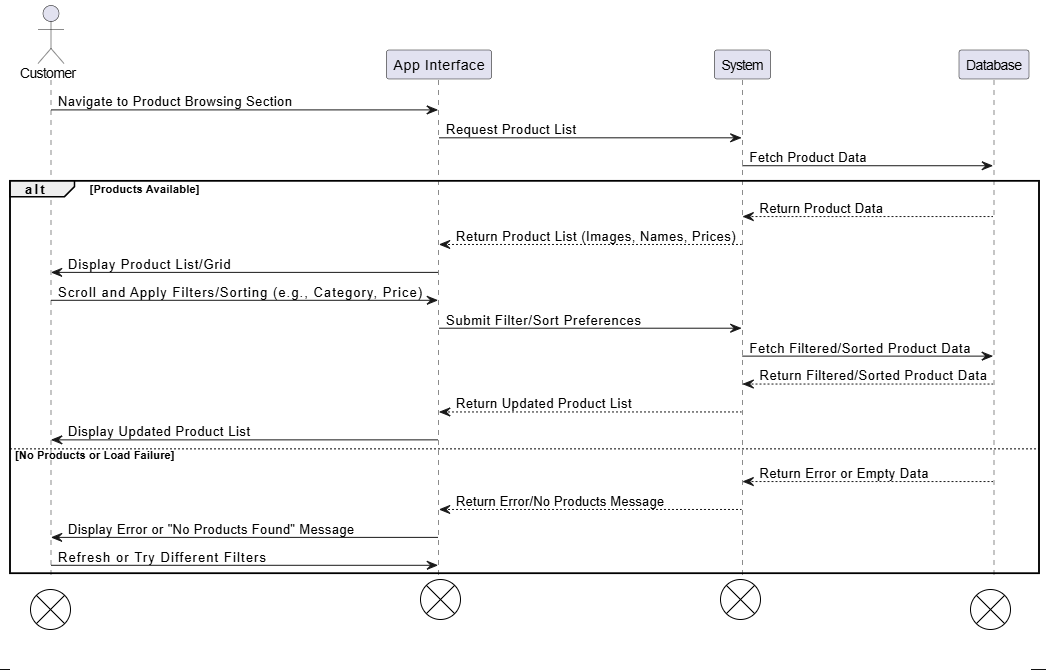
*Figure 4.1: Sequence Diagram for f* *Login for Customer*

### Sign-up for Customer Sequence Diagram

****

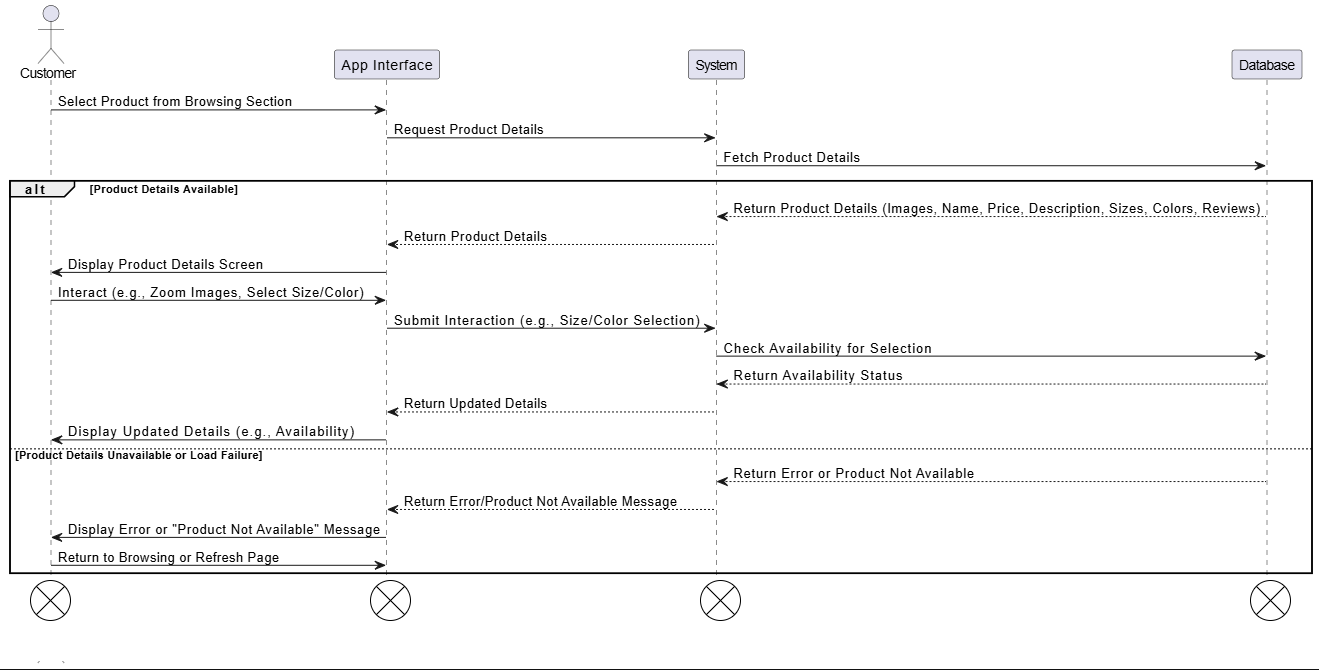
*Figure4.2: Sequence Diagram for Sign-up for Customer*

### Product Browsing sequence diagram.

****

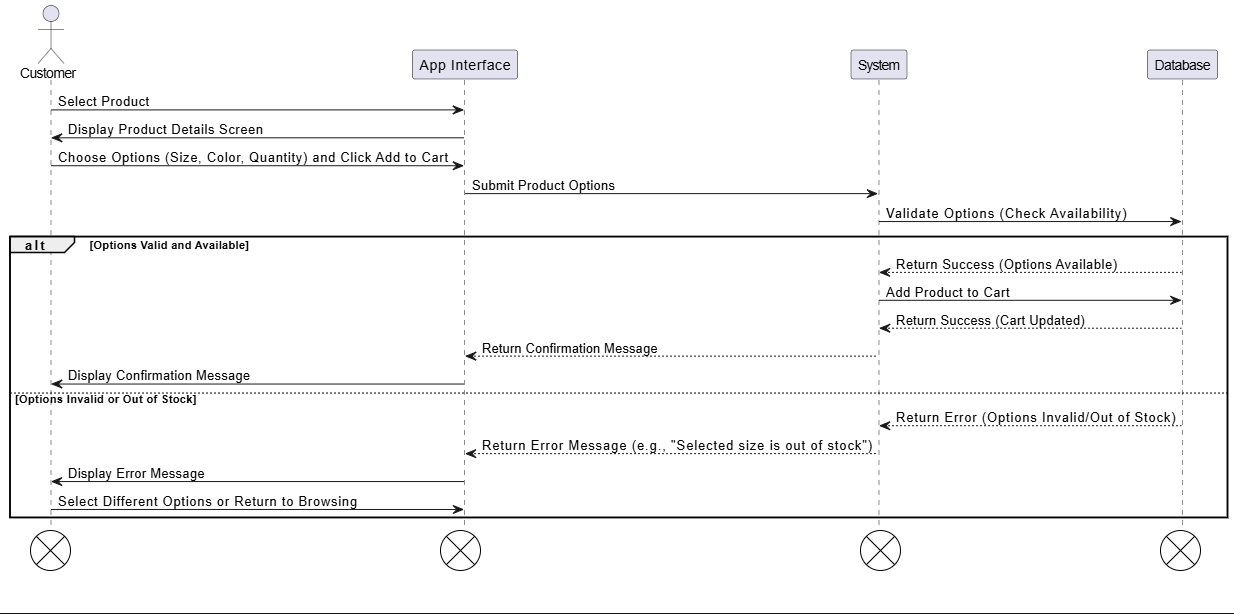
*Figure4.3: Sequence Diagram for Product Browsing*

### Product Details sequence diagram

**

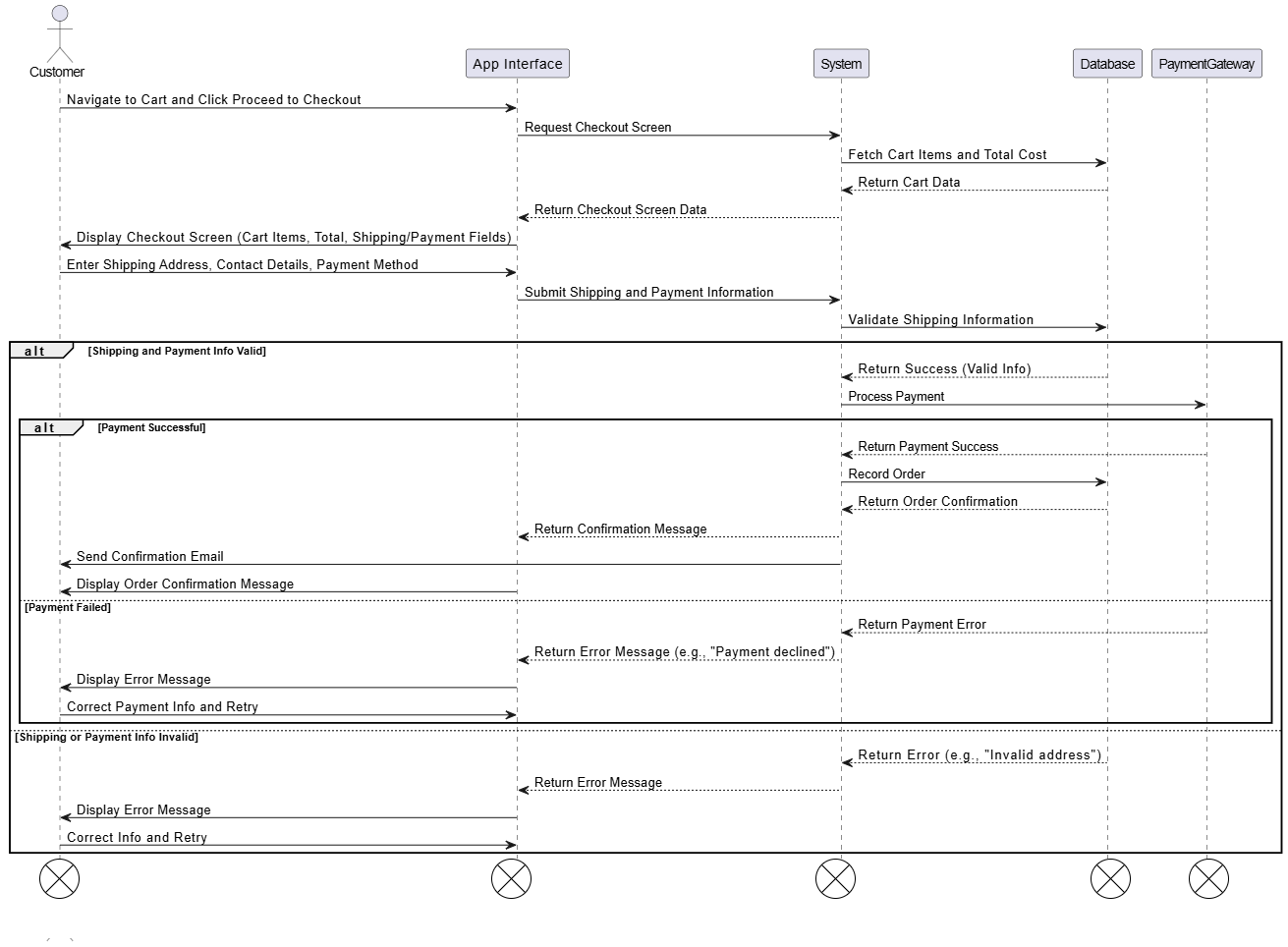
*Figure4.4: Sequence Diagram for Product Details*

### Add to Cart Sequence Diagram



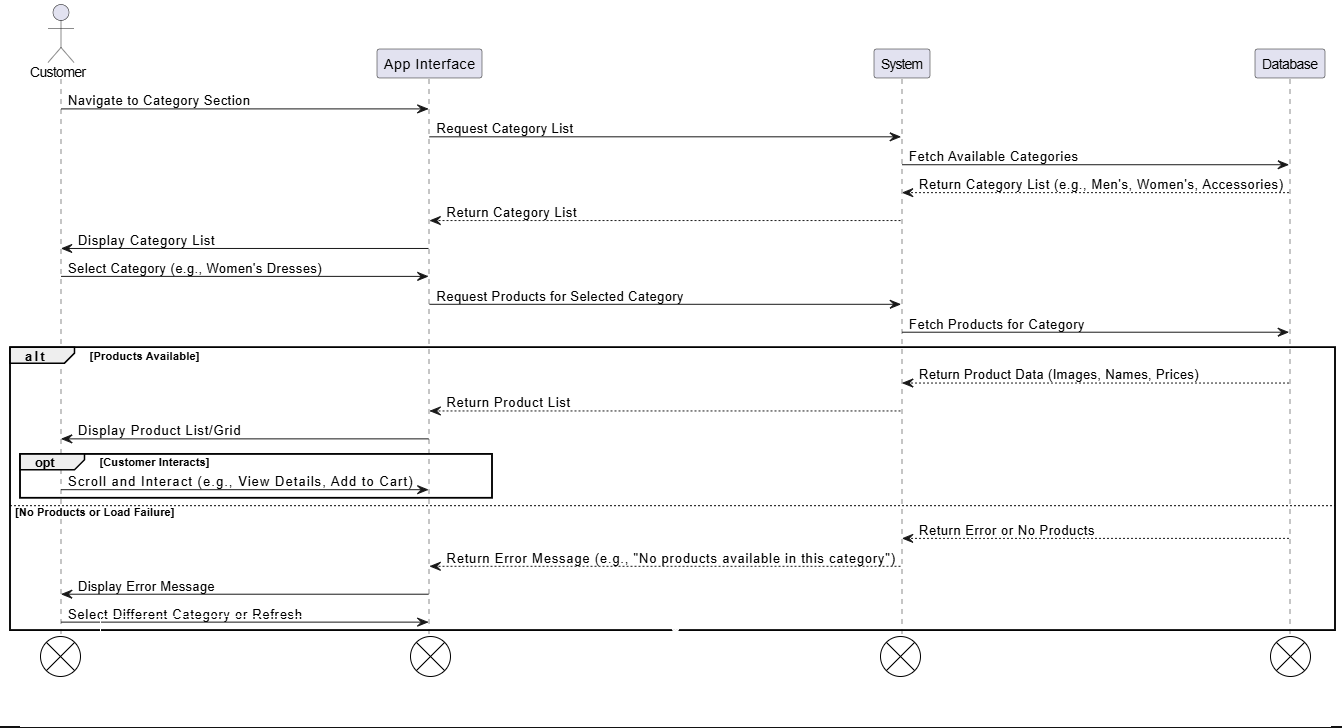
*Figure4.5: Sequence Diagram for Add to Cart*

### Order Placement and Checkout Sequence Diagram

****

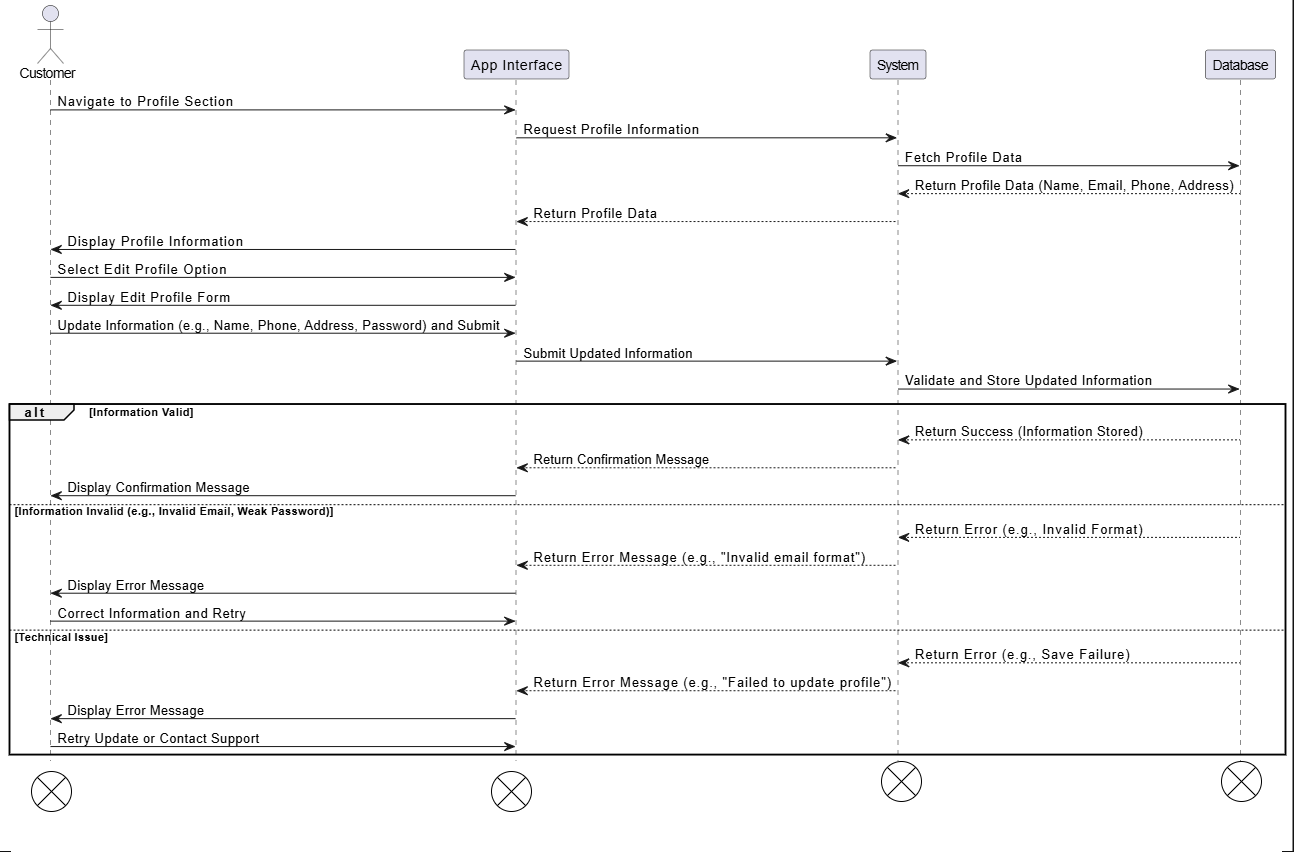
*Figure4.6: Sequence Diagram for Order Placement and Checkout*

### Discover by Categories Sequence Diagram

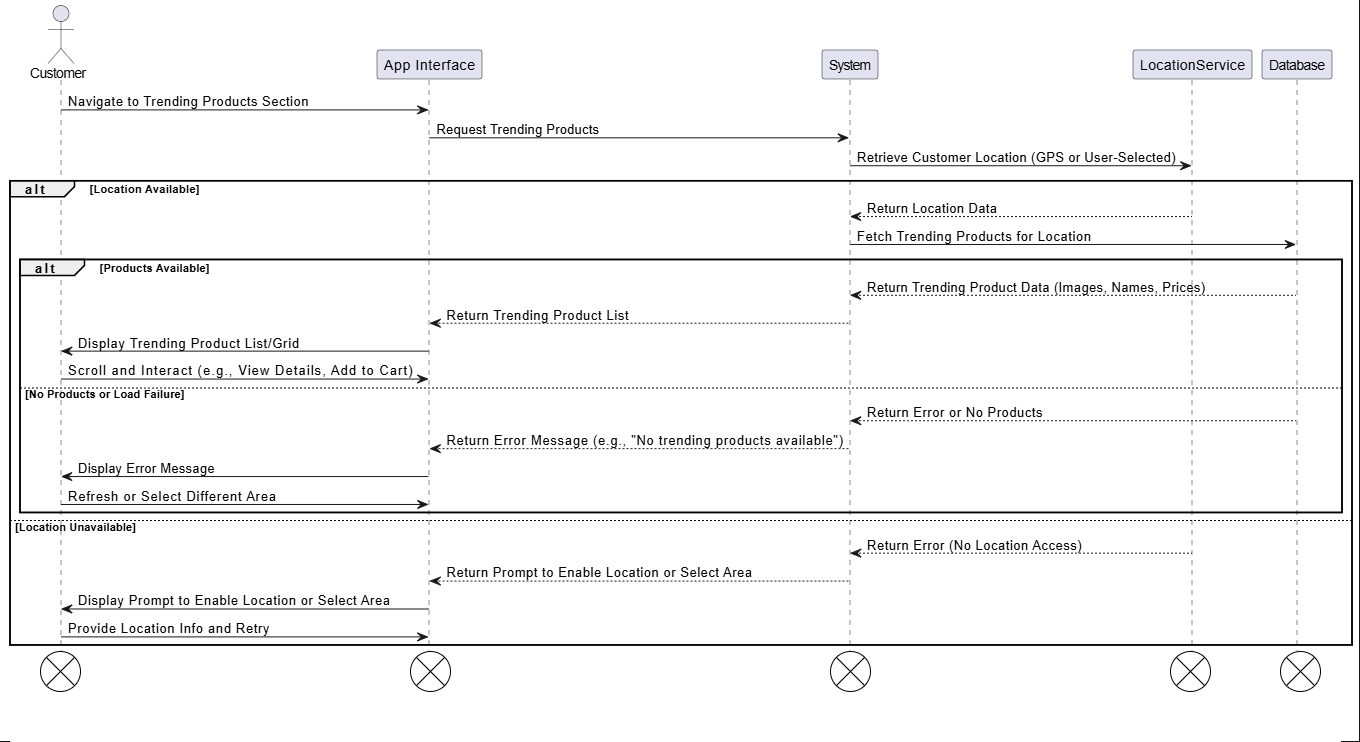


*Figure4.7: Sequence Diagram for Discover by Categories*

### Profile Management Sequence Diagram

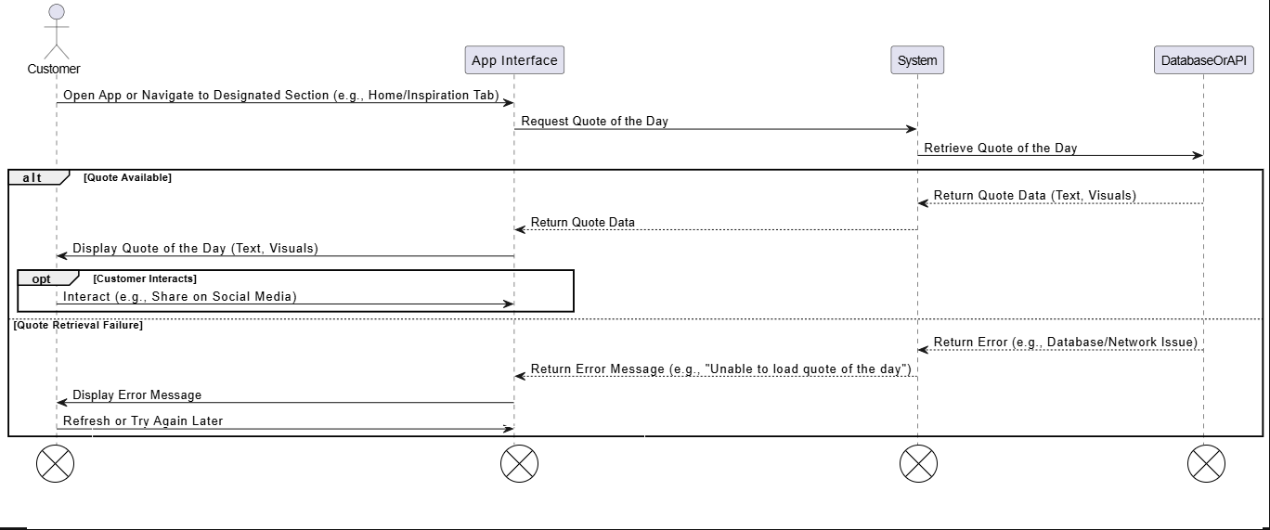
*****Figure4.8: Sequence Diagram for Profile Management*

### Trending Products based on Area Sequence Diagram



*Figure4.9: Sequence Diagram for Trending Products based on Area*

### Quote of the Day Sequence Diagram

****

*Figure4.10: Sequence Diagram for Quote of the Day*

## ERD

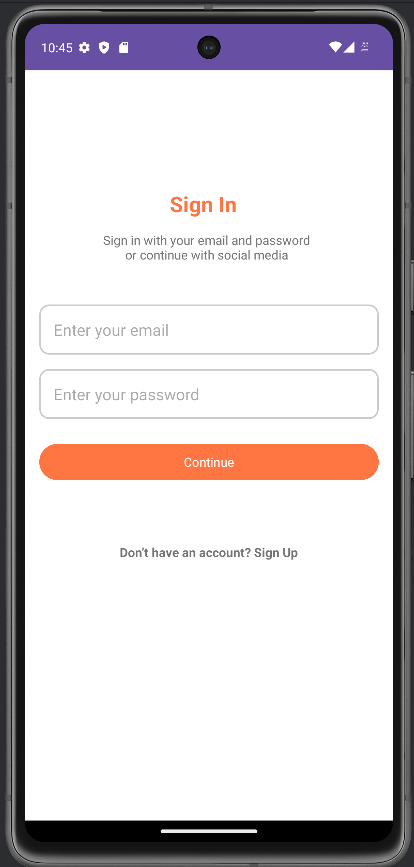
|  |
| --- |
| Picture 44, Picture |

Figure 3.89: ERD of Dressi

# Chapter 5 User Manual

### Login

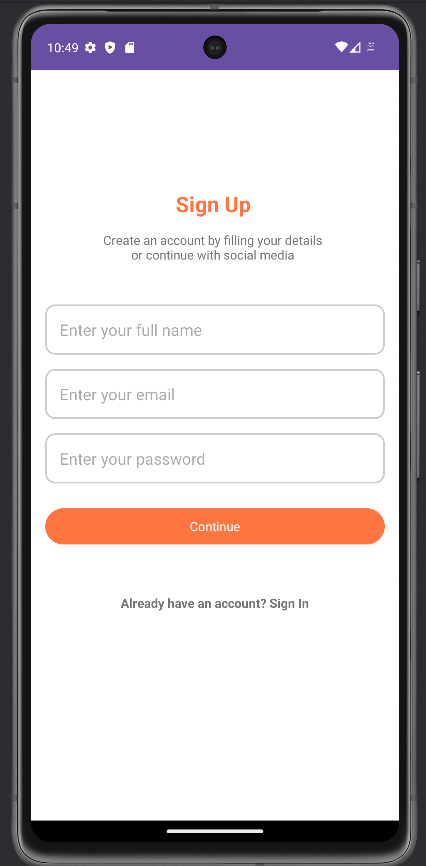
User enter email and password and then clicks on “*login button”*.



*Figure 5.1 Customer Login*

Signup

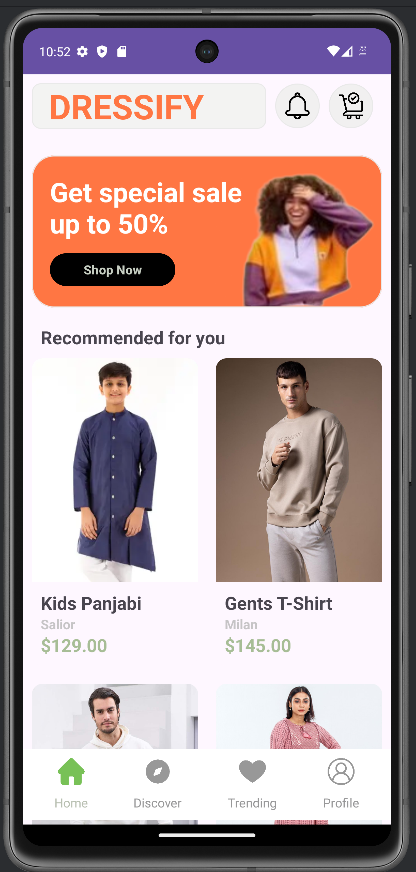
User enters name, email, and password for registering an account.



*Figure 5.2 Sign-Up Page*

### Home Page

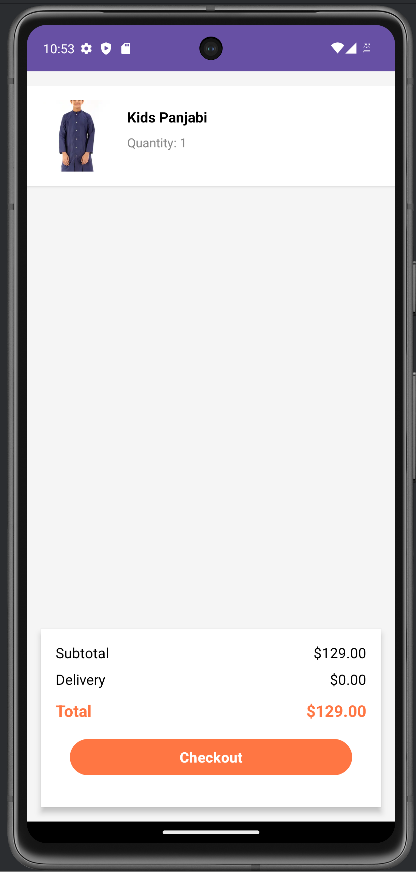
When user clicks on sign in it will direct to the homepage.



*Figure 5.3 Home Page*

### Add to Cart

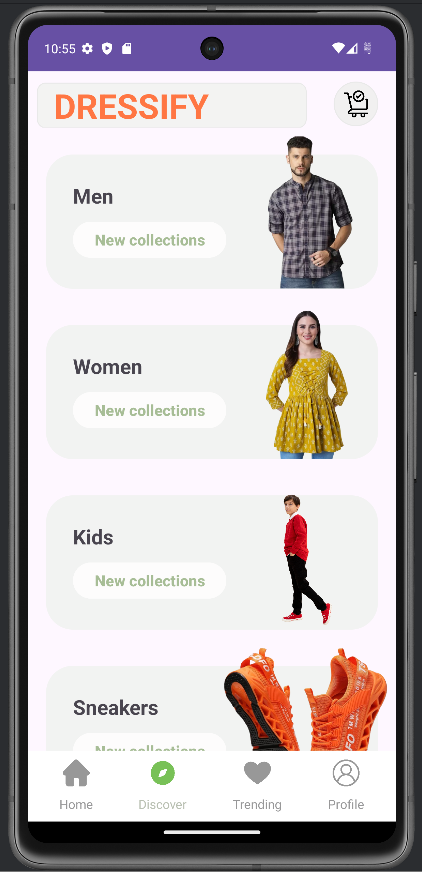
User click on “A*dd to cart and it will direct to checkout and place order.*



*Figure 5.4 Add to Cart*

### Discover by Categories

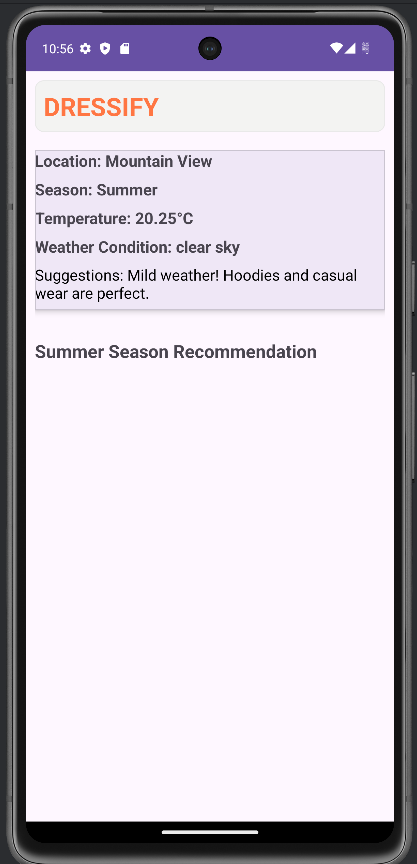
User click on “A*dd student”* and fill required fields to add new student.



*Figure 5.5 Discover by categories*

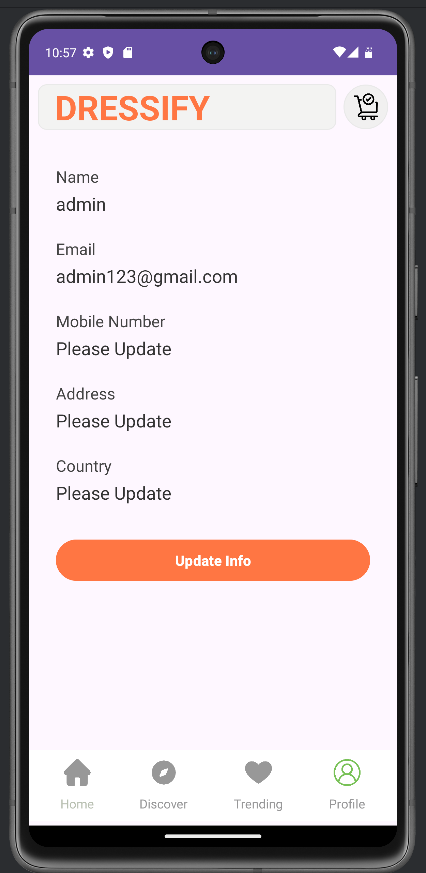
### Product Suggestion by Loaction

PMO clicks on “*All Students”* to view no of students.



*Figure 5.6 View All Students*

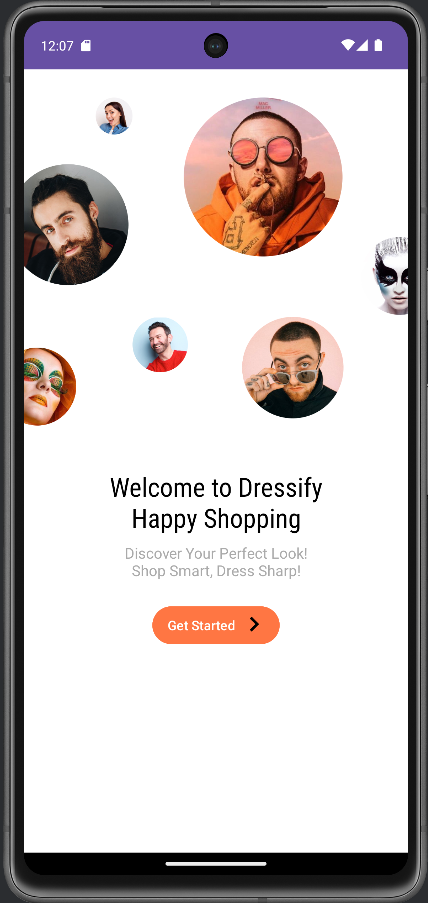
### Profile Update

User clicks on “*Update button”* of specific *Student* to update or edit its data, makes changings and then click on “*Update”* button.

*Figure 5.7 Update Student*

### Splash Screen

User clicks on “*Dressify” and the splash screen will appear for some seconds. Where user will clickon button getting started.*



*Figure 5.8 Splash Screen*

### Quote of the Day

User clicks on “*Quote of the day ”* and thescreen will show the specific quote to the user.



*Figure 5.9 Quote of the day*

# References:

**For URL:**