SHAHEED ZULFIKAR ALI BHUTTO
INSTITUTE OF SCIENCE AND TECHNOLOGY

Final Year Project Report

Saloonify

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Submitted in partial fulfillment of the requirements for the degree of

Bachelor of Science in Computer Science in the Faculty

of Computing and Engineering Sciences

Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology (SZABIST)

Karachi Campus

Declaration of Authorship

We, Hasan Abdul Moeed Khan (1912145) and Muhammad Haziq (1912394), declare that this report titled, “Saloonify” and the work presented in it are our own. We confirm that:
This work was done wholly or mainly while in candidature for a bachelor’s degree at this University.
Where any part of this report has previously been submitted for a degree or any other qualification at this University or any other institution, this has been clearly stated. Where we have consulted the published work of others, this is always clearly attributed.

Where we have quoted from the work of others, the source is always given. With the exception of such quotations, this report is entirely our own work.
We have acknowledged all main sources of help.

Where the report is based on work done by ourselves jointly with others, we have made clear exactly what was done by others and what we have contributed ourselves.

Signed: Hasan Abdul Moeed Khan 1912145

Muhammad Haziq 1912394

Date: 28th July 2023

Project Description

Saloonify is a mobile platform designed to revolutionize the way customers book beauty salon appointments and access home services. This comprehensive application combines convenience, efficiency, and innovation to offer a seamless user experience.

Key Features:

Beauty Salon Appointment Booking: Users can effortlessly schedule salon appointments with their preferred beauticians, hairstylists, and wellness professionals. The application offers a user-friendly interface where customers can browse available services, view real-time availability, and secure appointments at their convenience.

Home Services: In addition to salon bookings, the application offers a wide range of on-demand home services. Users can request doorstep beauty services, spa treatments, haircuts, and more, saving time and effort by receiving personalized services at their location.

Online Store: The integrated online store allows users to explore and purchase beauty products, cosmetics, and wellness essentials directly from the app. This one-stop-shop feature enhances customer convenience and expands revenue opportunities for beauty businesses.

Virtual Testing with AR: The highlight of the application is the innovative Augmented Reality (AR) feature that enables users to virtually try on various makeup products and hairstyles before making a purchase or booking. The AR technology provides an interactive and immersive experience, empowering users to make informed choices based on their preferences.

User Profiles and Reviews: Each user can create personalized profiles with saved preferences and booking history. Additionally, users can leave reviews and ratings for services received, facilitating transparency and trust among the community.

The Beauty Salon Appointment Booking and Home Services Android Application aims to elevate the beauty and wellness industry by embracing technology-driven solutions. With its user-friendly interface, AR-powered virtual testing, and comprehensive service offerings, the application aims to enhance customer engagement.

Acknowledgments

In the name of ALLAH, the most beneficent and merciful who gave us the knowledge and courage to work on this research area.
I would first like to thank my Supervisor Sir Faizan Tahir of the Computer Science faculty at Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology. Whenever I faced a challenging situation or needed clarification regarding my work or writing, I found his office door open. He consistently offered support, cooperation, and motivation during the entire research period.
I would also like to thank our teachers who guided us in the light of their knowledge and expertise.
I would also like to express my gratitude to my loving parents and family members who helped and gave us encouragement.
At the end, I would like to thank Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology for providing me such an inspiring environment. The quality education, the cooperative faculty members and the challenging environment have always motivated and boosted the confidence level of each and every student who has been a part of Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology.
Finally many thanks to all those who let us share their knowledge and resources.

Table of Contents

Proposal

Introduction

Our project is an android application which is focused on how a person may look after any specific saloon/cosmetic service as well as take an appointment for home service or on saloon from the specific stylist.

Objective

To design an android app to help customers be free from the hassle to wait in queues as well as not being disappointed after any certain service there is to offer.

Problem Description

Our application will help customers decide whether which service they want stylist they want to choose as well as how they might look after utilizing the service from the stylist. This will help customers to complain about the stylist if the stylist has done anything wrong regarding the service. Furthermore, it will also help stylist to avoid false accusation of not providing the service up to the mark. Moreover, this will not only help customers know how they might look beforehand, as well help saloons etc. on how they may improve further on. An inventory system will also be there for the salon's personal information, furthermore there will be a product section for the customers including a payment method.

Methodology

We will use android studio for basic android development. For database integration we will use either any cloud-based database, also we will use Google's "AR Core SDK" and/or Scene form SDK for augmented reality integration.

Project Scope

This Project is an android based application which will allow users to book parlor appointments as well can call a stylist home.
In this project our aim is to solve the problem for the hassle and disappointments faced by women about the results they expect and what they achieve. Here there will be two separate ends the app will run by:
Customer: They will be able to use features like to book appointment with stylists as well as call someone for home service, feedback will be added so they can give out their valuable suggestions/feedback and a product section will be included with a payment method and to try beauty filters that the stylist might offer
Parlor/Stylist-end: They will be able to offer services, setup inventory, check inventory of how much and which material in available. They can view customer feedback.

Feasibility Study

i. **Risks Involved**: Safety for the customer can be a potential risk (stylist coming in/customer going to the saloon) for this personal information will be stored to ensure safety
ii. **Resource Requirement**: Augmented Reality Dataset for makeup etc. (outsources from salons or it will be made by ourselves)

Solution Application Areas

Is your project of some real value? Which industry or application domain you are targeting? How that target domain may benefit from your solution?

- This project is targeted towards females.

Tools/Technology

- Android Studio
- Gradle
- Firebase
- Scene form SDK
- AR Core SDK

Expertise of the Team Members

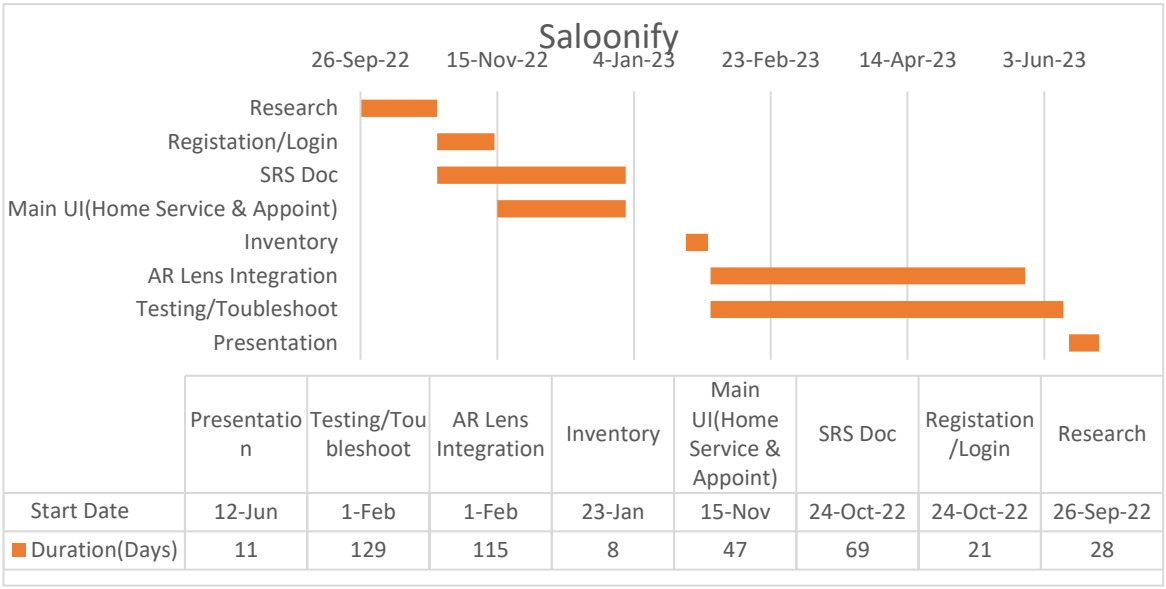
Are all team members pre-equipped with the level of knowledge needed for the successful completion of this project?
⇨ Yes, except for AR
Is this project of equal interest to all team members?
⇨ Yes

Milestones

FYP – I
Here we will me constructing out SRS document. main user-interface development will be carried out. Main login page will be designed.
Features including home service and appointment system will be worked upon

FYP – II
Here we will carry out the remaining features including the inventory system in which saloons will be able to see the items they have available
Augmented Reality will be implemented which will enable the users on how they look after a certain service.
Feedback and product store will be worked upon.
Troubleshooting and testing will also be carried out.

Project Schedule



	Presentation	Testing/Toubleshoot	AR Lens Integration	Inventory	Main UI(Home Service & Appoint)	SRS Doc	Registation /Login	Research
Start Date	12-Jun	1-Feb	1-Feb	23-Jan	15-Nov	24-Oct-22	24-Oct-22	26-Sep-22
Duration(Days)	11	129	115	8	47	69	21	28

Work Breakdown Structure

Hasan	Haziq
FYP - 1	
Home Services	User Profiles
Appointments	
feedback	
FYP - 2	
Augmented Reality	
Inventory	products
Payment methods	

Software Requirement Specifications

1. Introduction

1.1 Purpose

This application will help customers to complain about the stylist if the stylist has done anything wrong regarding the service. Furthermore, it will also help stylist to avoid false accusation of not providing the service up to the mark. Moreover, this will not only help customers know how they might look beforehand, as well help saloons etc. on how they may improve further on. An inventory system will also be there for the salon's personal information, furthermore there will be a product section for the customers including a payment method. As this is intended towards an issue in which, as of now there is no direction for people to actually know on how the person may look after any service therefore our application will bridge this gap which will be very revolutionary.

1.2 Document Conventions

- Paragraph font size:11
- Main Heading font size: 18
- Secondary Heading font size:14
- Font Family: Times New Roman
- Text color: Black
- Style: Bold

1.3 Intended Audience and Reading Suggestions

This is intended for Supervisors, Faculty Members, Users (mostly women), Team Members.

1.4 Product Scope

This Project is an android-based application which will allow users to book parlor appointments as well can call a stylist home.
In this project, our aim is to solve the problem for the hassle and disappointments faced by women about the results they expect and what they are provided with. Here there will be two separate ends the app will run by:

Customer-end:

- Use Augmented Reality Features
- Book Appointment
- Book Home Service
- Feedback

- Select products (to buy)
- Payment

They will be able to use features including trying beauty filters that the stylist may offer, book appointment with stylists as well as call someone for home service, feedback will be added so they can give out their valuable suggestions/feedback and a product section will be included with which the user may buy any product that may be available, with a payment method included.

Parlor/Stylist-end:

- Offer Services (Home & Appointment)
- Inventory Access
- Inventory Management

They will be able to offer services, Manage the inventory section as well as check inventory of how much and which material is available with their scope.

1.5 References

1. Snap Global AR Research Report

2. Overall Description

2.1 Product Perspective

Saloonify is an application that will bring a change within the cosmetic industry as well as process for getting any sort of makeup service within or without a salon. By giving customers the ability to call over someone to booking an appointment to testing makeup etc. features at home, Saloonify will ensure to be a fundamental part in providing a suitable experience the Use Case Diagram in Figure 1.0 illustrates the external entities for the first version. Saloonify is expected to undergo multiple releases as well as enabling payment methods.

2.2 Product Functions

Apart for signup, Saloonify will be providing appointment and home appointment system for customers as well as a product section with payment method. In addition, the augmented reality features will allow users to try out different makeup and cosmetic options beforehand. Admin or service providers will be able to give out notification as well as maintain the inventory section in their end.

1. **User End**
    - Augmented Reality features (items may vary)
        - Makeup Filters
        - Hair Color
    - Appointment
    - Home Service
    - Online Store

- Makeup Items
- Skin Care
- Cosmetics

2. **Stylist(admin) End**
   - Manage services
   - Access Inventory (for online store)
   - Inventory Management
     - Add Items
     - Delete Items

2.3 User Classes and Characteristics

FIG 2.0 ERD

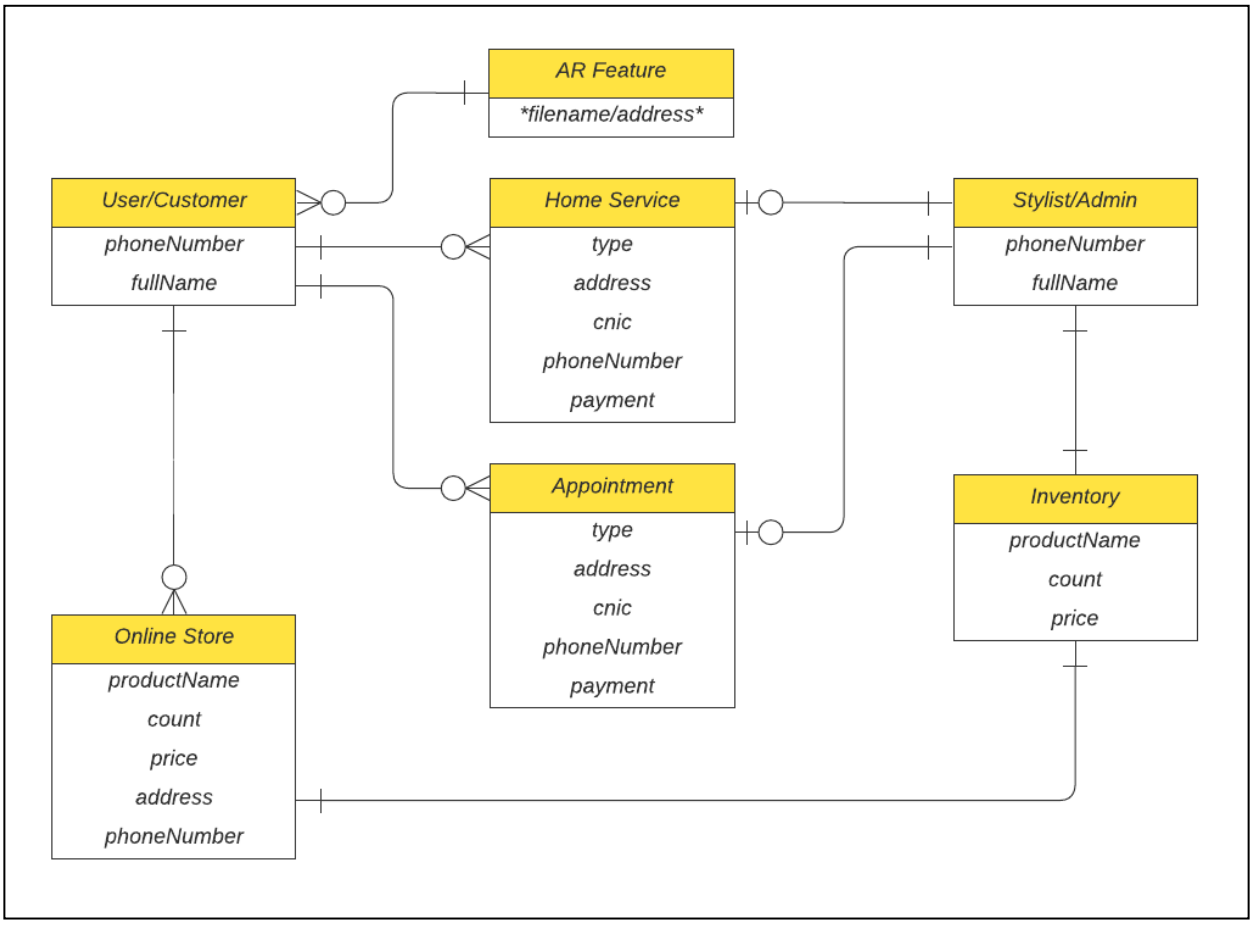


Fig 2.0 shows the basic flow of the application

2.4 Operating Environment

To use this application, the following will be required on an android device:

- An “Android” mobile device
- Android Version 7.1.2 or above
- An internet connection

2.5 Design and Implementation Constraints

1. Will be completed till June 2023
2. Will be Android Specific
3. Security will be assured with login credentials and CNIC
4. Tools and Technology:
    - Android Studio with Kotlin and Java
    - Database System (primarily Realtime Firebase)
    - AR API’s (sceneform & ARCore)
    - SparkAR Studio for AR Datasets
    - External Dataset (if any)

2.62 Assumptions and Dependencies

An active internet connection will be required to use the application otherwise total features will not be accessible.
It is assumed that the users will have an android smartphone to use this application and they have the knowledge on how to use a front camera as well as on how to use a smartphone overall.
Younger generation who are frequent users of social media platform such as Snapchat, Instagram and Facebook will be familiar with this application while using its AR features.
For security concerns CNIC will be required for any service obtained while using this application.

3. External Interface Requirements

3.1 User Interfaces

1. User Signup
2. User login
3. Admin Login
4. Make New Admin
5. User Forgot Password
6. User Dashboard
7. Admin Dashboard
8. Augmented Reality

9. Online Store
10. Inventory (Admin/Stylist)

3.2 Hardware Interfaces

1. Mobile Device: Android 7.1.2 or above
2. Storage: 100 – 350MB
3. Memory 2GB Minimum

3.3 Software Interfaces

- IDE: Android Studio | Gradle
- Programming Languages: Kotlin and Java
- Libraries: Sceneform | ARCore SDK
- Datasets: Self-made | Externals
- Databases: Firebase

3.4 Communications Interfaces

For communication we will be using Emails to facilitate users while communicating with the stylist or the admin of the application.

4. System Features

FIG 4.1 Use-Case Main Diagram

4.1 Appointments & Home Service

4.1.1 Description and Priority

- Priority 9
- Book Appointment
- Enter Details
- Using the service

4.1.2 Stimulus/Response Sequences

1. User will Select the service and enter personal details.
2. Information will be added onto the database
3. Admin/Stylist will accept request
4. User will get notification

4.1.3 Functional Requirements

- Email Address
- Full Name
- Phone Number

- Home Address (for Home Service)

All of the above fields will be necessary for the service approval and procedure. For home service the service provider will have to visit the client whereas during the appointment procedure the user will have to visit

4.1.4 Main Functional Chart

USE CASE NAME	Appointment and Home Service	
ACTORS	Admin, User, Service	
DESCRIPTION	The case represents User booking an appointment or a home service	
TYPICAL COURSE OF EVENTS	1) User starts program and selects the service. 2) After choosing moves over to the detail section 3) user finalizes details	4) The Admin Accepts the detail. 5) Notification sent to the User. 6) Updates all data and displays a successful prompt.
ALTERNATE COURSE	1)User starts wrong program 2)Does not select anything	3) Does not add personal details in the form.
PRECONDITION	Active online network connection	
POSTCONDITION	The actor already has the service active.	
ASSUMPTION	The admin is available to provide service	

4.1.5 Test Cases

Test Case	Description	Expected Output	Output	Result
Negative				
1	Feature not utilized	-	-	Pass
2	Either of the fields left blank	“Kindly fill the fields”	Error Message	Pass
3	Service Rejected	“Stylist rejects request”	Relevant message	Pass
4	Either of the fields are not according to format	“Invalid Format, Enter in the correct `Field` format”	Error message	Pass
Positive				
5	Accepted request	`Service Booked`	Relevant message	Pass
6	All fields successfully entered	`Request Sent`	Relevant message	Pass

4.2 Augmented Reality

4.2.1 Description and Priority

- Priority 7

- Visualize on how a person may look
- Different filters
- Example includes: makeup

4.2.2 Stimulus/Response Sequences

1. User will be asked permission to take pictures
2. User will be asked permission to store file
3. User may use different filters etc. to see how she may look
4. Store files

4.2.3 Functional Requirements

- Android Device with at least 6 Megapixel front (or rear) camera
- Permission to agree
- Permission to store files

4.2.4 Main Functional Chart

USE CASE NAME	Augmented Reality (Beautification)	
ACTORS	Users	
DESCRIPTION	The case represents user utilizing the AR component	
TYPICAL COURSE OF EVENTS	1) User starts program and logs in. 2) The user moves over to the lens feature.	3)Tries out filter option for beautification.
ALTERNATE COURSE	1)User starts wrong program 2)Desired filter not there	
PRECONDITION	Active online network connection as well as phone compatible	
POSTCONDITION	The user has successfully utilized the feature.	
ASSUMPTION	The User is aware of the camera results	

4.2.5 Test Cases

Test Case	Description	Expected Output	Output	Result
Negative				
1	Feature not utilized	-	-	Pass
Positive				
2	Virtual Testing Chosen	`Filters Applied`	`Filters Applied`	Pass

4.3 Online Store

4.3.1 Description and Priority

- Priority 5
- Purchase products
- Range of products including cosmetics and hair color etc.
- Example includes: hair color, makeup etc.

4.3.2 Stimulus/Response Sequences

1. User will move over to store section.
2. Select items they are willing to buy
3. Select payment method (CoD or payment)

4.3.3 Functional Requirements

- Home Address in case of cash on delivery

4.3.4 Main Functional Chart

USE CASE NAME	Online Store	
ACTORS	User	
DESCRIPTION	The case represents user buying products	
TYPICAL COURSE OF EVENTS	1)User starts program 2)Users logs in. 3) Goes to Store menu 4) Selects products to buy 5) Selects payment method	6)Add the details according to the payment method. 7) order placed.
ALTERNATE COURSE	1)User starts wrong program 2)User fails to enter details. 3) Fails to pay	4)Online payment bounces back.
PRECONDITION	Active online network connection	
POSTCONDITION	The actor has placed order	
ASSUMPTION	The desired product is available	

4.3.5 Test Cases

Test Case	Description	Expected Output	Output	Result
Negative				
1	Store not used	-	-	Pass
2	No items selected	“No items are Selected”	Error message	Pass
3	Item out of stock	“Item is out of stock”	Error message	Pass
Positive				
4	Opened to view only	`Items Appear`	`Items Appear`	Pass
5	Selects Item	`Item Added `	`Items Added`	Pass
7	Order Placed	`Order Successfully Placed`	`Order Successfully Placed`	Pass

4.4 Login & Registration

4.4.1 Description and Priority

- Priority 1
- Creating user profile
- Logging in as an existing user

4.4.2 Stimulus/Response Sequences

1. User will open the application
2. Form appears
3. Details entered, will not proceed if left empty
4. User profile created

4.4.3 Functional Requirements

- Valid email address
- Password

4.4.4 Main Functional Chart

USE CASE NAME	Login And Registration	
ACTORS	User, System, Admin	
DESCRIPTION	The case represents a user logging in	
TYPICAL COURSE OF EVENTS	1)User/Admin starts program 3)User/Admin puts in his login credentials or sign ups	2)Prompts login/signup window 4) Prompts ‘Login Successful’ or ‘Account created ’for sign up.

ALTERNATE COURSE	1)User/Admin starts wrong program 2)User/Admin puts in wrong login credentials	3) Doesn't prompt user for login window 4) No window shown.
PRECONDITION	Active online network connection	
POSTCONDITION	The actor has logged in successfully	
ASSUMPTION	User has valid email address	

4.4.5 Test Cases

Test Case	Description	Expected Output	Output	Result
Negative				
1	Both fields are black	"Enter the Fields"	Error message	Pass
2	Email field is blank	"Enter the Email" Message	Error message	Pass
3	Password field is blank	"Enter the password"	Error message	Pass
4	Wrong Password and valid Email	"Incorrect Password"	Error message	Pass
Positive				
5	Correct Email and Password	`screen moves towards the dashboard`	Screen changes	Pass
6	Forgot Password Pressed	`screen moves towards F-P form`	Screen changes	Pass
7	Account Registration	Enter email and a password	'Account Created'	Pass

4.5 Payment Gateway

4.5.1 Description and Priority

- Priority 2
- Regular Payment method
- Opened upon selection

4.5.2 Stimulus/Response Sequences

1. After selecting items to buy, option will be given for COD or Online
2. Form appears
3. Details entered, will not proceed if left empty
4. Payment will be made

4.5.3 Functional Requirements

- Valid Debit/Credit Card

4.5.4 Main Functional Chart

USE CASE NAME	Payment Gateway	
ACTORS	User	
DESCRIPTION	The case represents user making payment in the online store	
TYPICAL COURSE OF EVENTS	1) User starts program and opens store. 2) Selects product 3) Enters Details and selects payment method.	3)enters address etc for COD. 4)Enters card details for online transaction.
ALTERNATE COURSE	1)User starts wrong program 2)Ends up going on the wrong menu.	3)Does not enter any details. 4) Not enough money
PRECONDITION	Active online network connection	
POSTCONDITION	The user has/will - made/make the payment	
ASSUMPTION	The user has enough money to buy the product.	

4.5.5 Test Cases

Test Case	Description	Expected Output	Output	Result
Negative				
1	All fields are blank	“Enter the Fields”	Error message	Pass
2	Either of the Fields are blank	“Enter the field(s)” Message	Error message	Pass
3	Wrong Information entered	“Wrong Information entered”	Error message	Pass
4	Not enough balance	“Not enough balance”	Error message	Pass
Positive				
5	Correct details	`Payment Completed`	Screen changes/Message appears	Pass

4.6 Inventory

4.6.1 Description and Priority

- Priority 6
- Inventory Management for Admin
- Add Items for users to buy from store

4.6.2 Stimulus/Response Sequences

1. Accessible only for admin.
2. May Add or Remove items

4.6.3 Functional Requirements

- Items themselves

4.6.4 Main Functional Chart

USE CASE NAME	Inventory	
ACTORS	Admin	
DESCRIPTION	The case represents admin managing the inventory	
TYPICAL COURSE OF EVENTS	1)Admin starts program. 2)Admin logs in. 3)Moves towards inventory section 4) May add or remove items	5)Will be updated in the online store
ALTERNATE COURSE	1)Admin starts wrong program 2)Admin fails to open correct tab. 3) fails to update correctly.	4)forgets to update data.
PRECONDITION	Active online network connection	
POSTCONDITION	The actor has updated the inventory.	
ASSUMPTION	Items are available in stock.	

4.6.5 Test Cases

Test Case	Description	Expected Output	Output	Result
Negative				
1	Inventory not opened	`no transition`	Error message	Pass
Positive				
2	To add item(s)	`Added Successfully`	“Item Added”	Pass
3	To view items	`Views`	-	Pass

5. OTHER NONFUNCTIONAL REQUIRMENTS

5.1 Performance Requirements

The application will be reliable and responsive. Backend coding will be done in a way that efficiency is maintained. We will be using both Kotlin and Java programming languages with will enhance our reach in maintaining our different sets of functionalities.

5.2 Safety Requirements

By using a cloud-based Database that is firebase, it has an built in authentication service which ensures the safety of the stored data. With this the tables and data is already ensured by the firebase storage

5.3 Security Requirements

The User will be required to provide CNIC for specifically home service and appointments, for user side we are using authentication services of google to ensure safety.

5.4 Software Quality Attributes

Classes and Functions will be reused while code implementation to provide reusability.
Exceptional Handling will be done to secure application from potential crashing.
Application will be robust, user friendly and efficient.

5.5 Business Rules

Any new additions to the system will have to be done through admin rights. The application is available for most android devices. The application is developed using a minimalistic approach, which will be easy for developers to update as well as users to utilize the application.

6.0 Other Requirements

Appendix B: Analysis Models

Fig 6.1 Sequence Diagram for Services

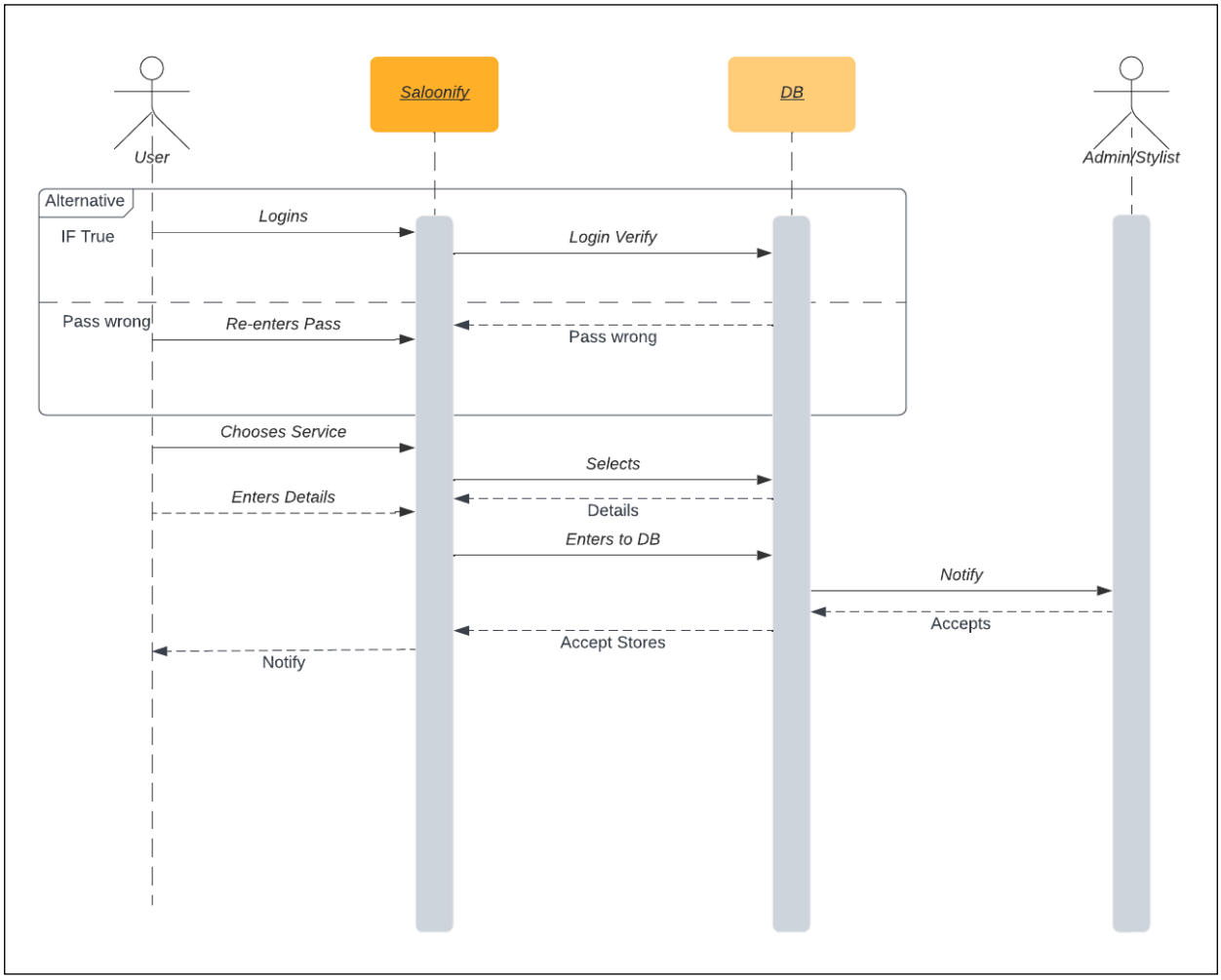


Fig 6.2 Sequence Diagram for Login

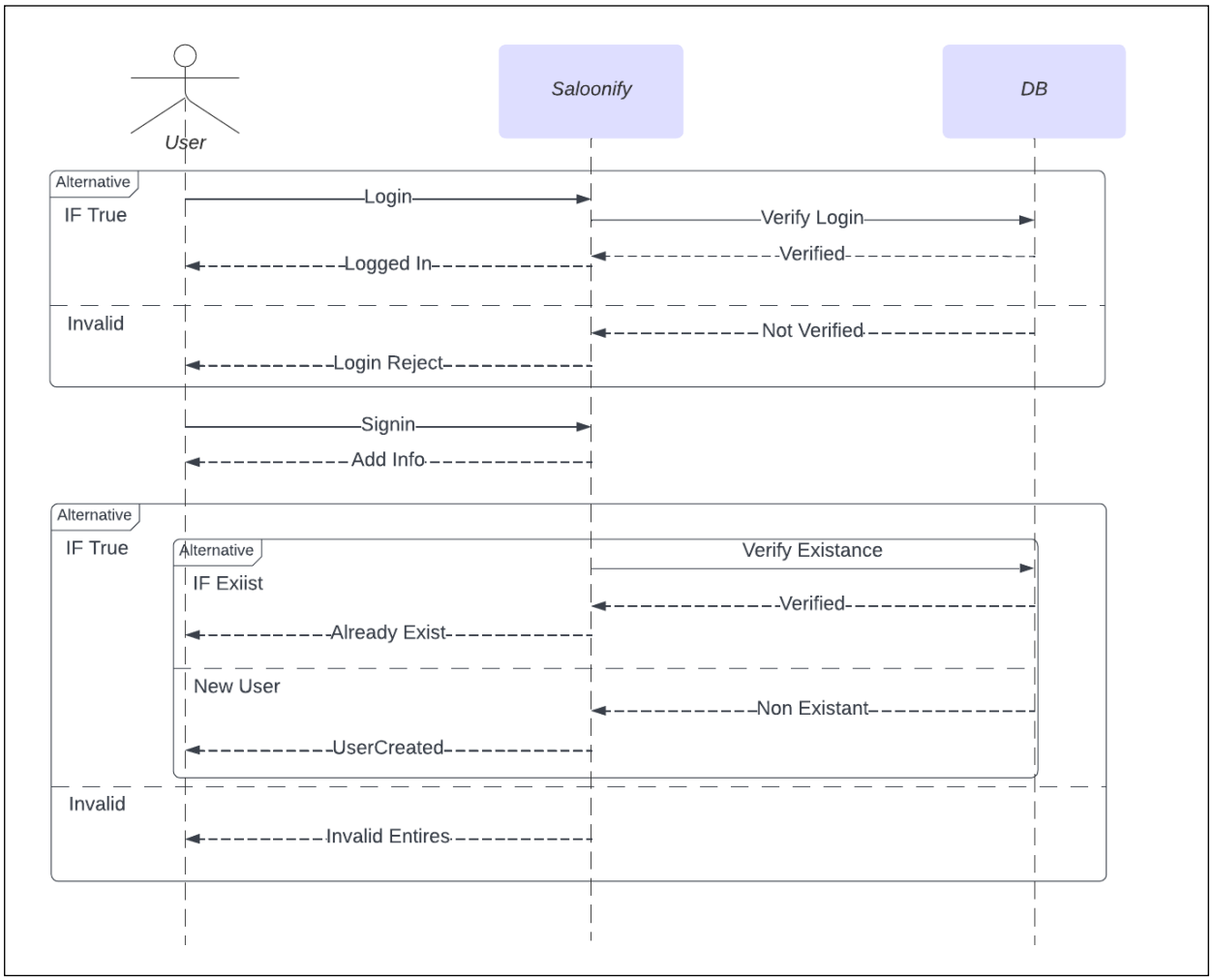


Fig 6.3 Sequence Diagram for Virtual Testing

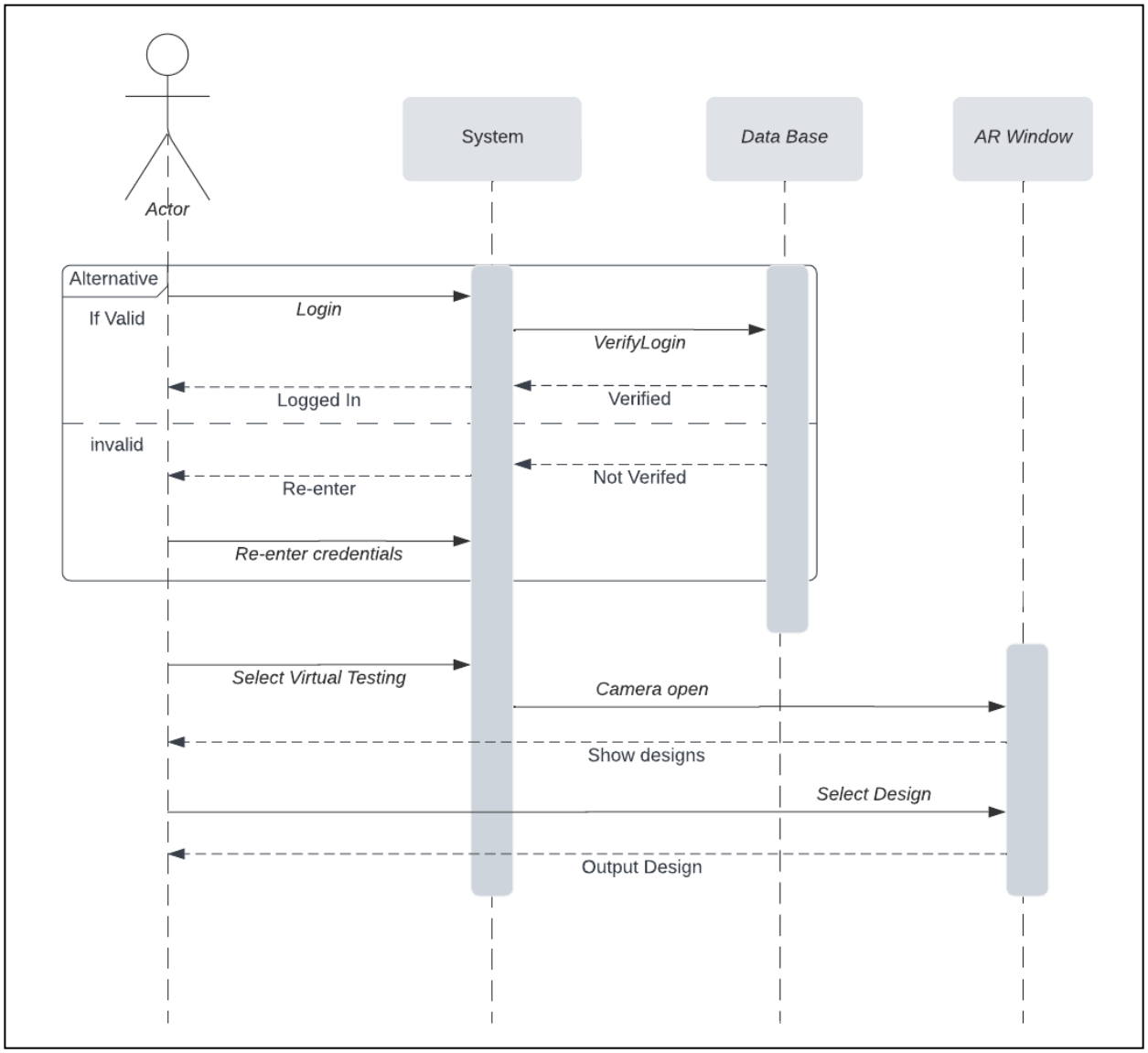


Fig 6.4 Sequence Diagram for Online Store

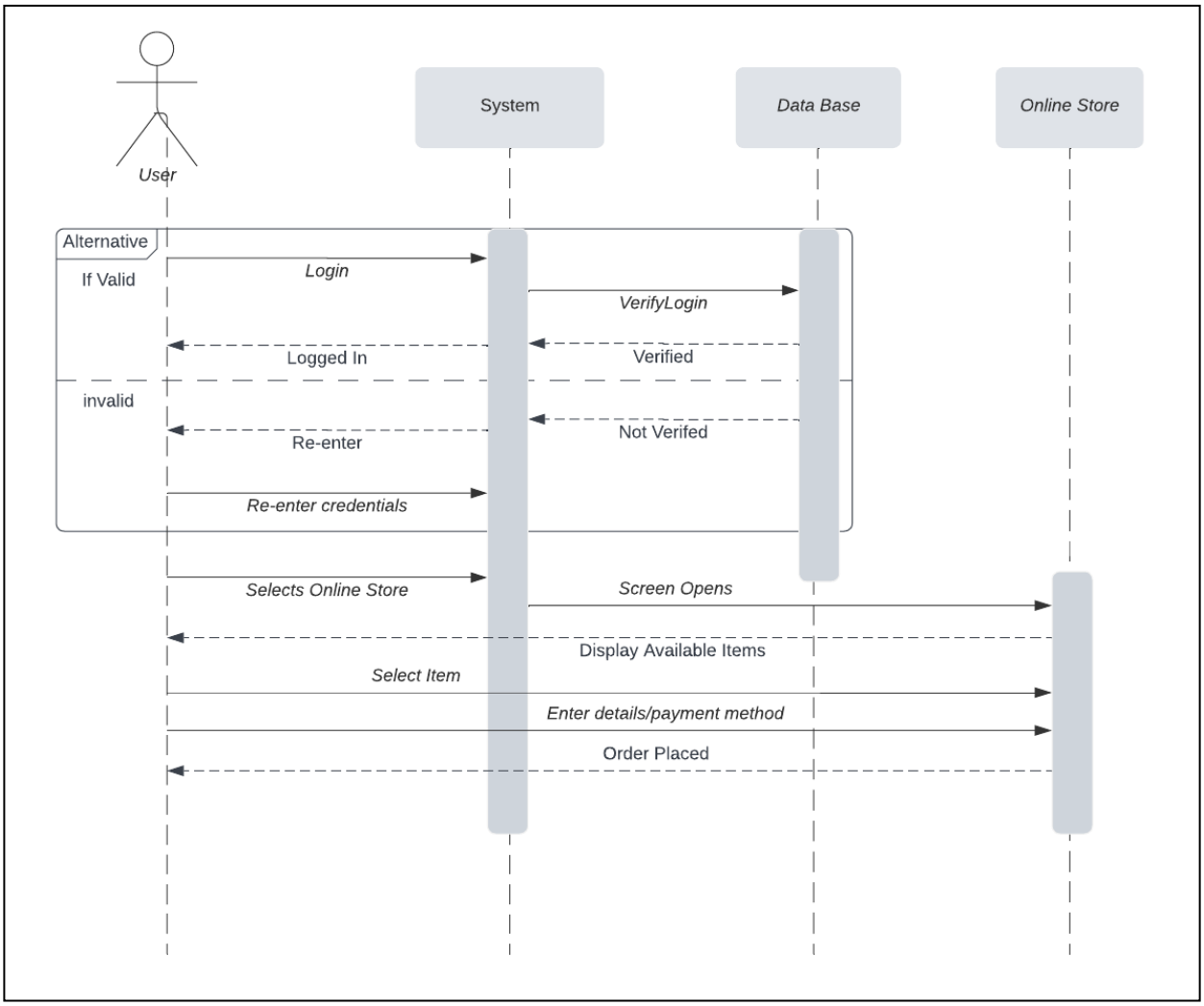


Fig 6.5 Sequence Diagram for Admin Functions(inventory)

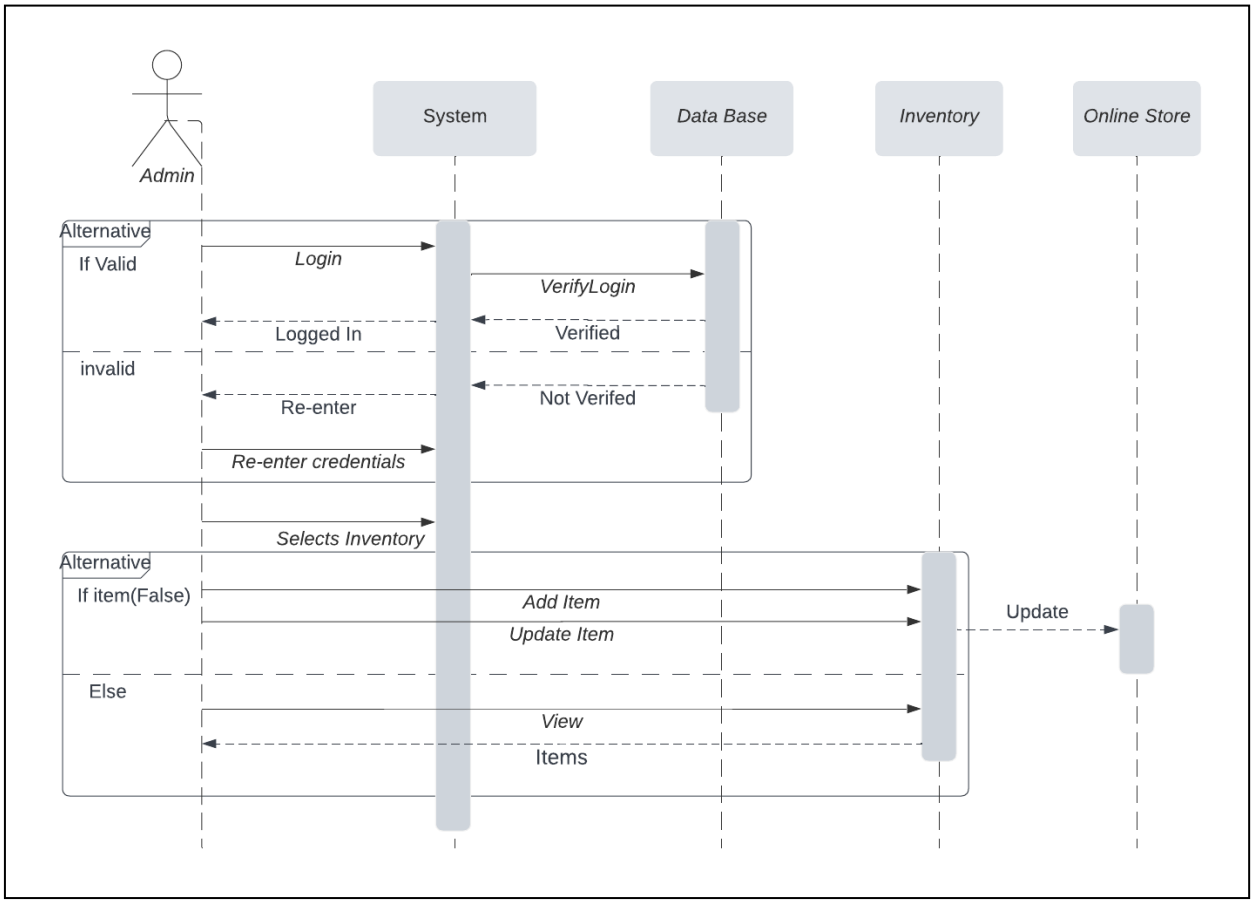
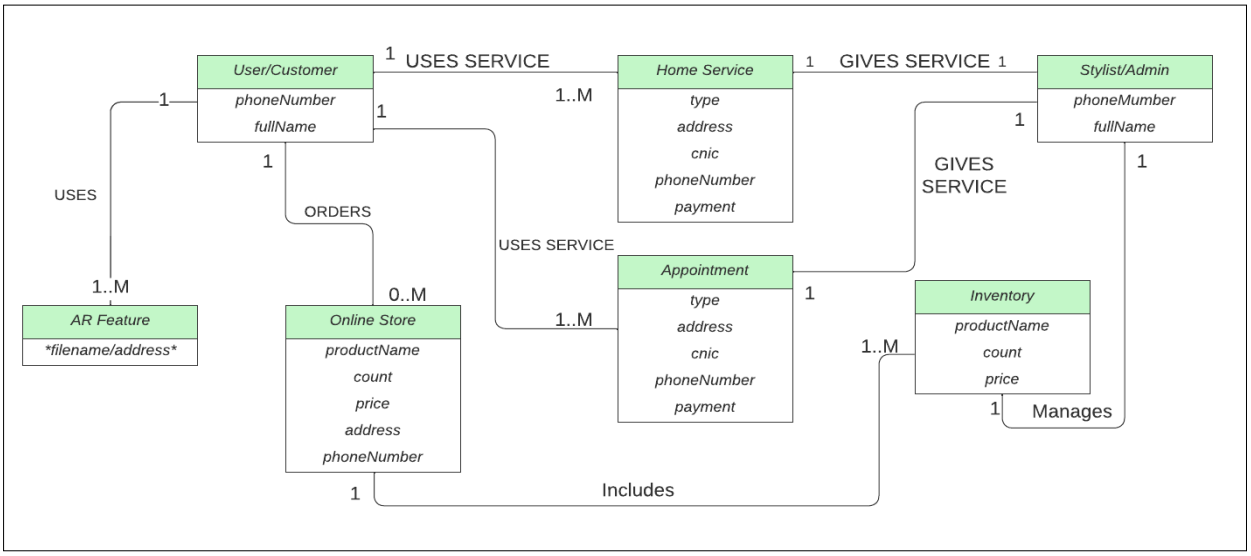


Fig 6.6 Domain



Software Design Specifications

1. Introduction

1.1 Purpose

This application will help customers to complain about the stylist if the stylist has done anything wrong regarding the service. Furthermore, it will also help stylist to avoid false accusation of not providing the service up to the mark. Moreover, this will not only help customers know how they might look beforehand, as well help saloons etc. on how they may improve further on. An inventory system will also be there for the salon's personal information, furthermore there will be a product section for the customers including a payment method. As this is intended towards an issue in which, as of now there is no direction for people to actually know on how the person may look after any service therefore our application will bridge this gap which will be very revolutionary.

1.2 System Scope

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In this project, our aim is to solve the problem for the hassle and disappointments faced by women about the results they expect and what they are provided with. Here there will be two separate ends the app will run by:

Customer-end:

- Use Augmented Reality Features
- Book Appointment
- Book Home Service
- Feedback
- Select products (to buy)
- Payment

They will be able to use features including trying beauty filters that the stylist may offer, book appointment with stylists as well as call someone for home service, feedback will be added so they can give out their valuable suggestions/feedback and a product section will be included with which the user may buy any product that may be available, with a payment method included.

Parlor/Stylist-end:

- Offer Services (Home & Appointment)
- Inventory Access
- Inventory Management

1.3 Definitions and Acronyms

- **Template** – Custom
- **Process** – Entire Application
- **Task** – One step or piece of a workflow

1.4 References

2. Snap Global AR Research Report

2. System Architecture Description

2.1 Section Overview

This section defines the precise overview on what makes “Saloonify” Saloonify. This includes the backend framework as well as its frontend. Limitations that make may or might have an impact on the usability of the program.

2.2 Constraints

- Saloonify will be completed till June 2023
- It will be deployed for android specific users
- Security will be assured with login credentials and CNIC before using any service

2.2.1 Tools and Technologies

- Android Studio with Kotlin and Java
- Database System with Firebase Authentication and Realtime
- AR API’s (Sceneform or AR Core)
- Meta Spark AR Studio for Augmented Reality datasets
- External datasets (if any)

2.3 Data Design

Fig 2.1 Entity Relationship Diagram

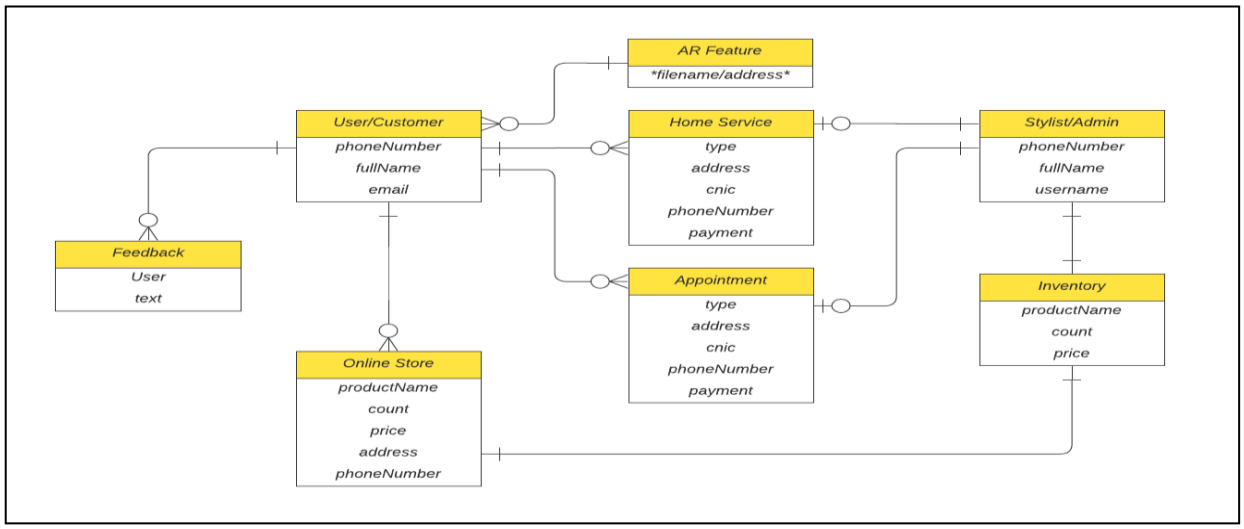


Fig 2.2 Admin JSON


```
{"saloonify":{"admins":{"hasan":{"password":"hasan","username":"hasan"},"hasan121":
{"password":"abc12345","username":"hasan121"},"haxiq":
{"password":"hazz","username":"haxiq"},"haziq7714":
```


Fig 2.3 User List (Firebase)

Identifier	Providers	Created ↓	Signed In	User UID
cs1912394@s...	✉	Nov ...	Nov ...	HNDh9shQWeOsE...
mhaziq5144...	✉	Nov ...	Nov ...	SMOtnZmMiROTB...
a@gmail.com	✉	Nov ...	Nov ...	GsJmp3emIrOaPzt...
grim7228@g...	✉	Nov ...	Nov ...	RKUfyvlInqPP1tvH...
hasankhan60...	✉	Nov ...	Nov ...	Z865mKJ52oYCBd...
has123@gma...	✉	Nov ...	Nov ...	leLtbhJ00vSf3DzE...

- Data is saved in JSON within Realtime Firebase
- Datasets will be integrated with sceneform or other API within Android Studio

2.4 Program Structure

Fig 2.4 User Classes

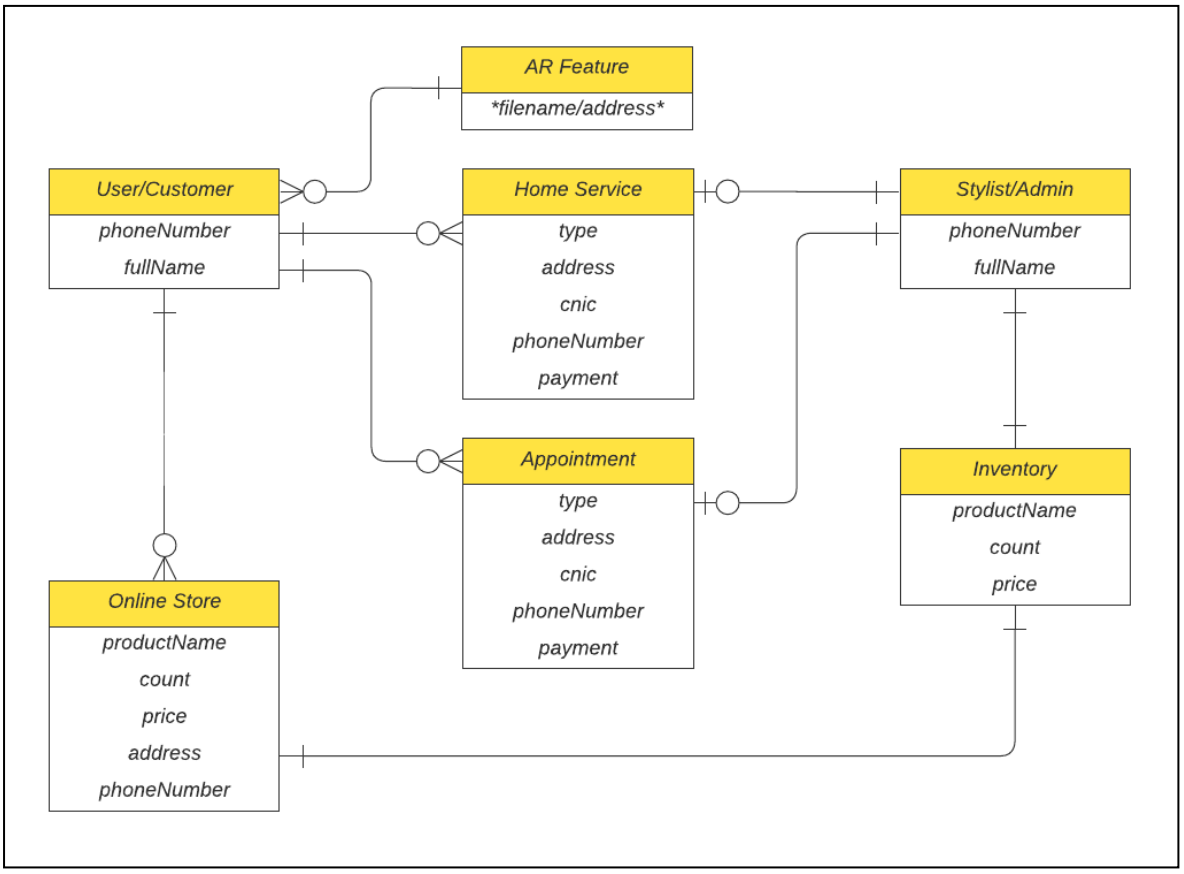


Fig 2.5 Activity Diagram for Services

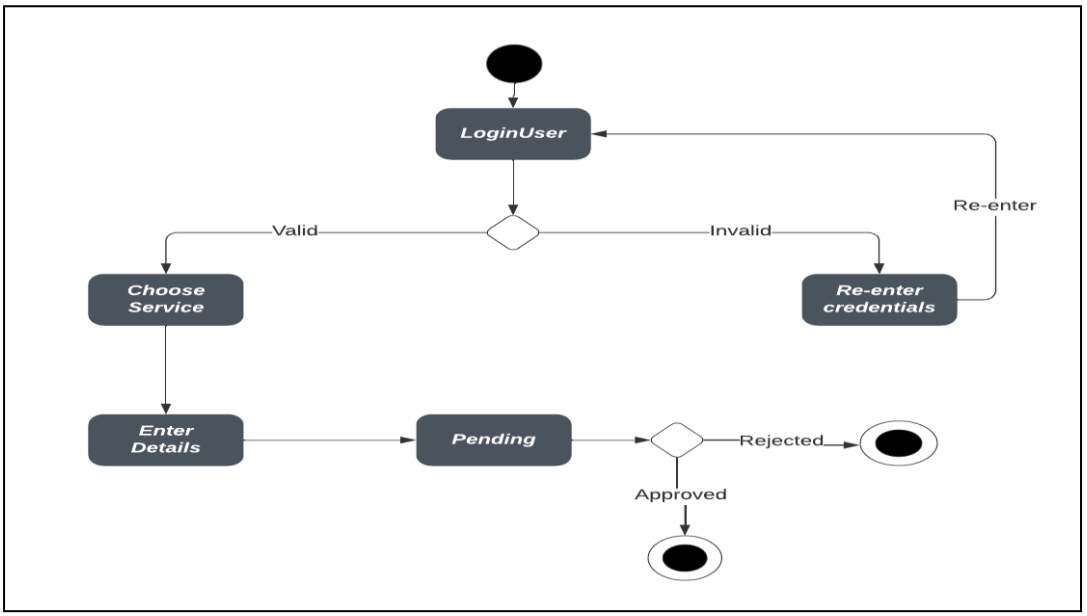


Fig 2.6 Activity Diagram for Online Store

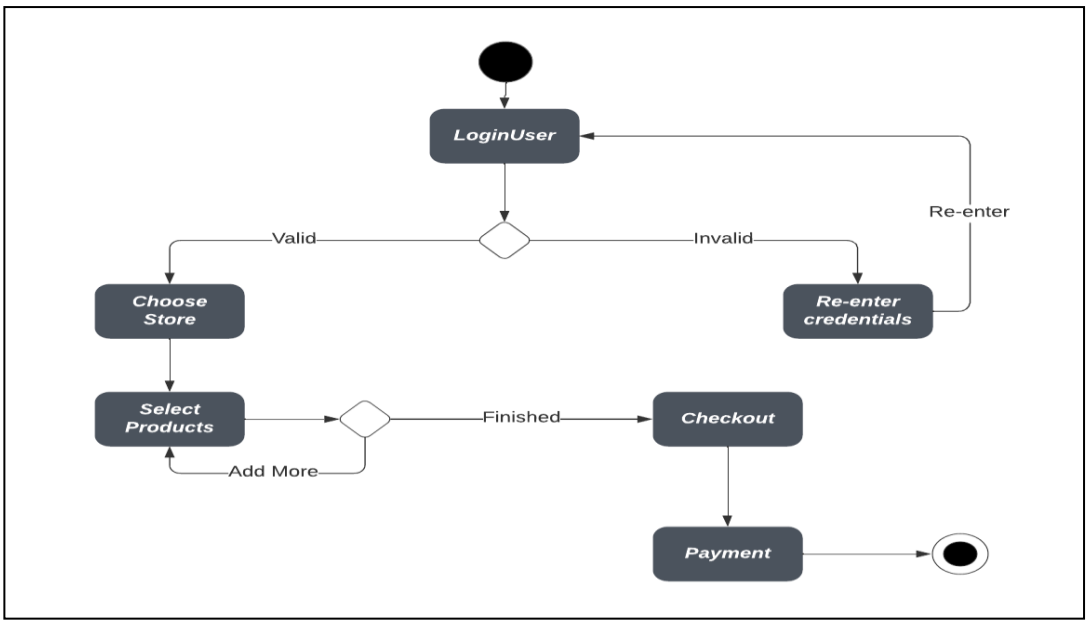


Fig 2.7 Activity Diagram for User Login

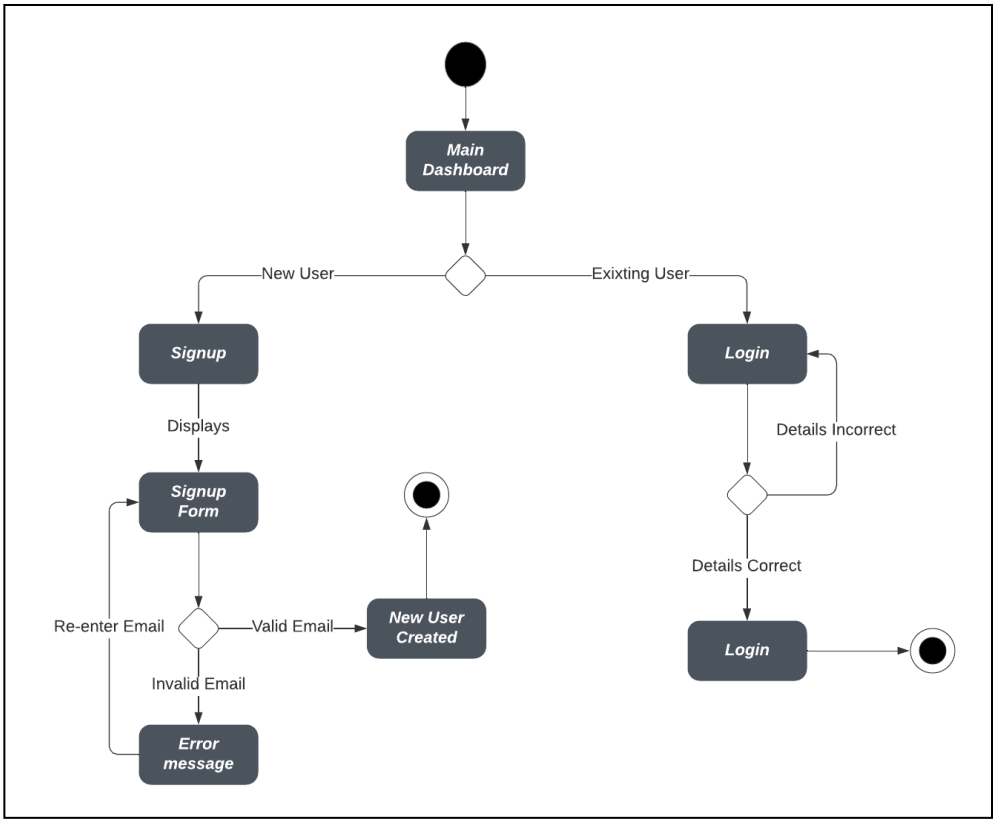


Fig 2.8 Collaborative Diagram User Perspective

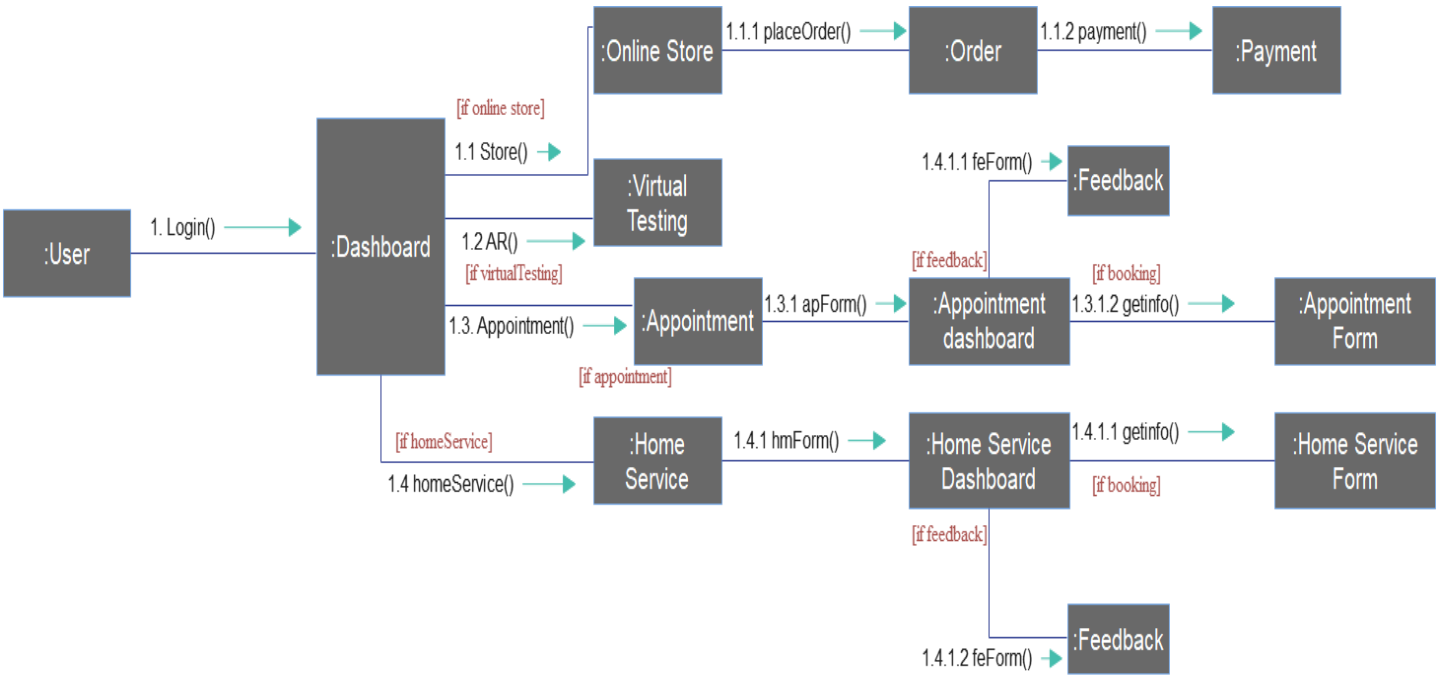
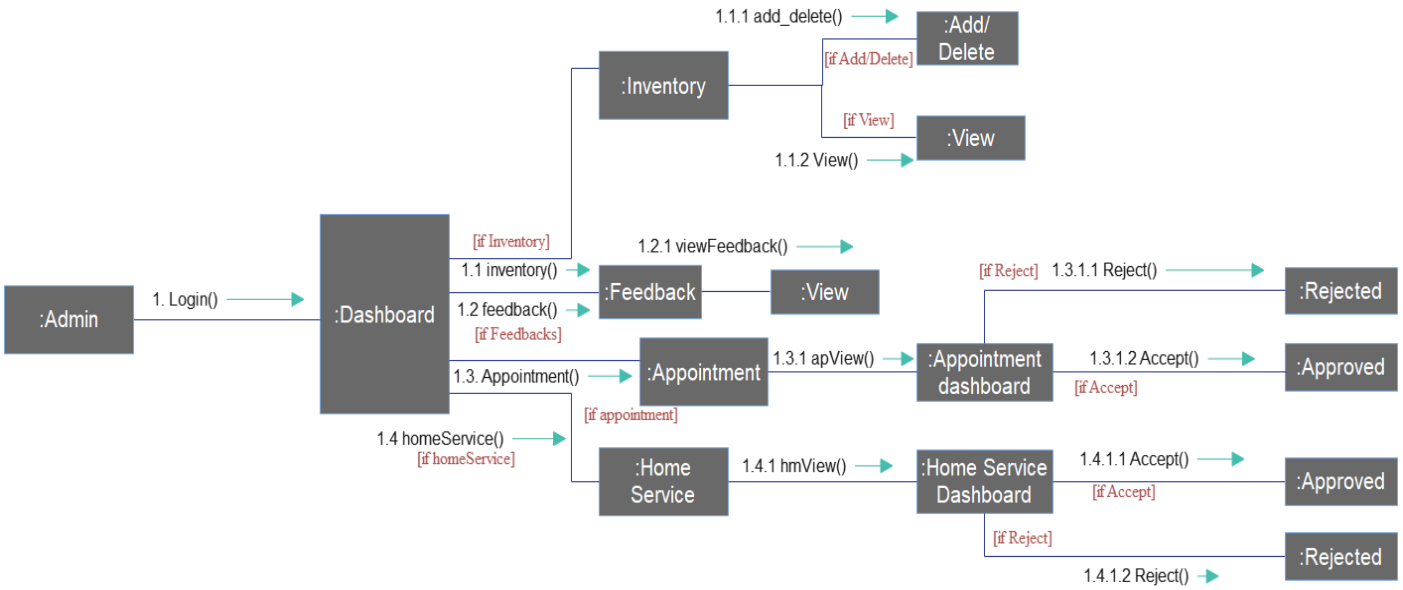


Fig 2.9 Collaborative Diagram Admin Perspective



3. Description of Components

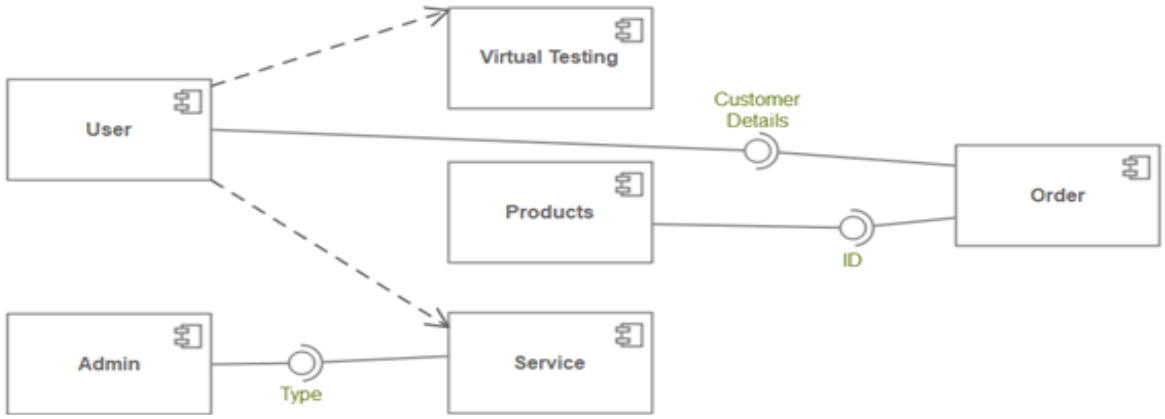


Fig 3.0 System Components

3.1 Overview

In this section we describe the details of components in the system, it will give also give the overall view of all the functional components. It will describe each component's identification, type, purpose, function subordinates, Dependencies, interfaces, resources, processing and data.

3.2 Login and Registration

3.2.1 Description and Priority

- Priority 1
- Creating user profile
- Logging in as an existing user

3.2.2 Stimulus/Response Sequences

5. User will open the application
6. Form appears
7. Details entered, will not proceed if left empty
8. User profile created

3.2.3 Functional Requirements

- Valid email address
- Password

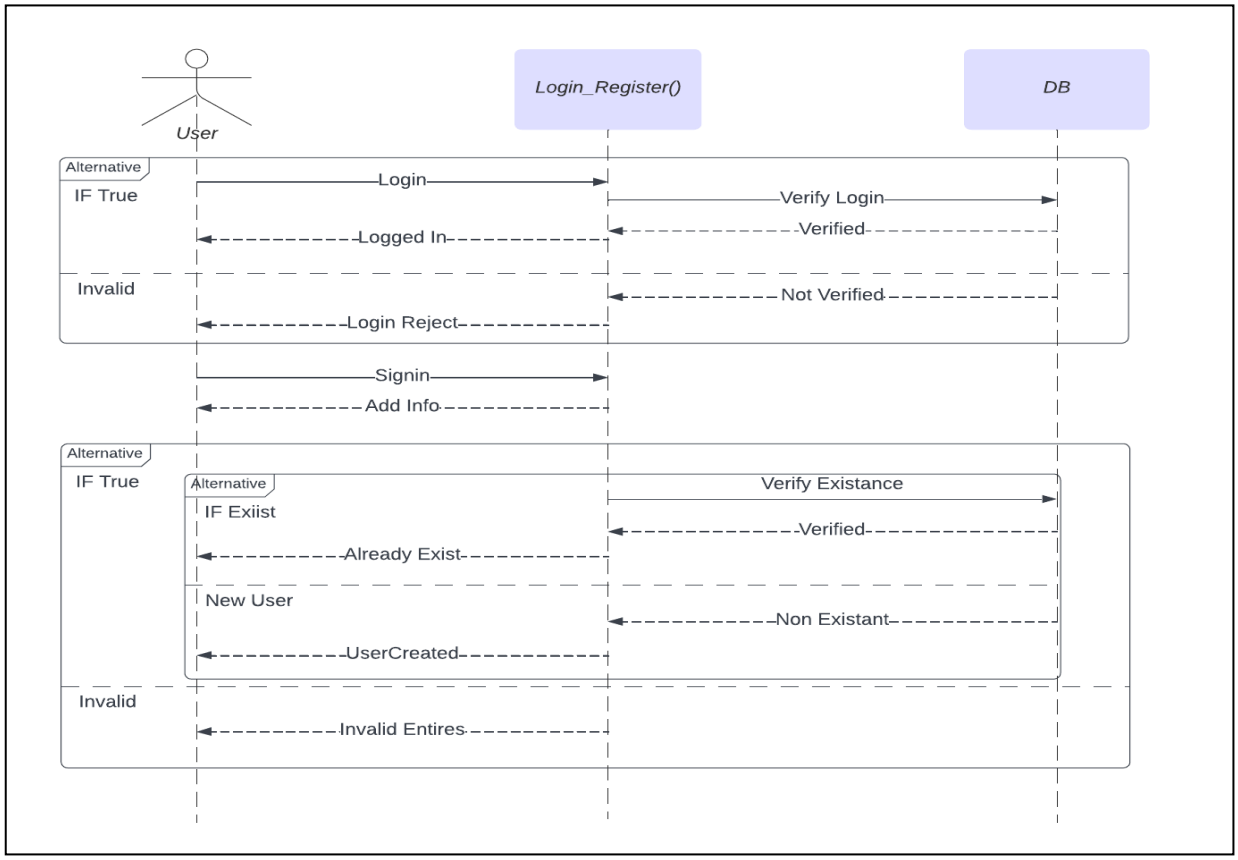
3.2.4 Main Functional Chart

USE CASE NAME	Login And Registration	
ACTORS	User, System, Admin	
DESCRIPTION	The case represents a user logging in	
TYPICAL COURSE OF EVENTS	1)User/Admin starts program 3)User/Admin puts in his login credentials or sign ups	2)Prompts login/signup window 4) Prompts 'Login Successful' or 'Account created 'for sign up.
ALTERNATE COURSE	1)User/Admin starts wrong program 2)User/Admin puts in wrong login credentials	3) Doesn't prompt user for login window 4) No window shown.
PRECONDITION	Active online network connection	
POSTCONDITION	The actor has logged in successfully	
ASSUMPTION	User has valid email address	

3.2.5 Components

Identification	Login & Registration
Type	Class/Page
Purpose	User/Admin authentication into the application
Function	This screen/page allows the user to enter user credentials and the system will verify it, After verification if the credentials are correct then the user is taken to its Dashboard, If the credentials are incorrect then it displays a message/error. Same is the case for Administrator as well with the ability of making a new administrator
Subordinates	Valid Credentials
Dependencies	The login screen depends on entered email/username and password which tie to another component that allows the user to use or access project services.
Interfaces	The screen is designed for the users/admins to input their credentials in order to proceed with Saloonify, Error Handling is insured with error messages being generated when the problem arises.
Resources	Android Devices with 7.0 above android version.
Processing	This screen requires email/username and password for verifying account and allowing access to the Dashboard.
Data	Data saved in JSON format with firebase Database.

Fig 3.1 Sequence Diagram Login & Registration



3.3 Appointments & Home Service

3.3.1 Description and Priority

- Priority 9
- Book Appointment
- Enter Details
- Using the service

3.3.2 Stimulus/Response Sequences

5. User will Select the service and enter personal details.
6. Information will be added onto the database
7. Admin/Stylist will accept request
8. User will get notification

3.3.3 Functional Requirements

- Email Address
- Full Name
- Phone Number
- Home Address (for Home Service)

All of the above fields will be necessary for the service approval and procedure. For home service the service provider will have to visit the client whereas during the appointment procedure the user will have to visit

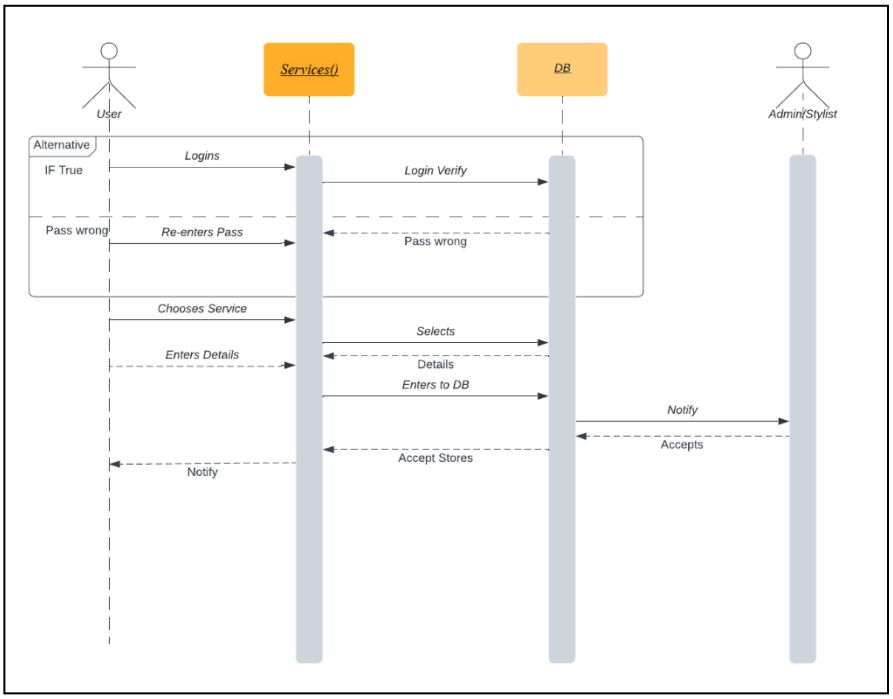
3.3.4 Main Functional Chart

USE CASE NAME	Appointment and Home Service	
ACTORS	Admin, User, Service	
DESCRIPTION	The case represents User booking an appointment or a home service	
TYPICAL COURSE OF EVENTS	1) User starts program and selects the service. 2) After choosing moves over to the detail section 3) user finalizes details	4) The Admin Accepts the detail. 5) Notification sent to the User. 6) Updates all data and displays a successful prompt.
ALTERNATE COURSE	1)User starts wrong program 2)Does not select anything	3) Does not add personal details in the form.
PRECONDITION	Active online network connection	
POSTCONDITION	The actor already has the service active.	
ASSUMPTION	The admin is available to provide service	

3.3.5 Components

Identification	Appointment and Home Service
Type	Class/Page
Purpose	Book Appointments and Home Service
Function	This will allow the users to book appointments and home service option by entering their credentials
Dependencies	The Users ability or need to book any service she wants.
Interfaces	The screen is designed as a form base dashboard where she will be able to fill out the respective form for booking any service.
Resources	Android Devices with 7.0 above android version.
Processing	This screen requires the details for the service via the form for registering a type of service.
Data	Data saved firebase Database.

Fig 3.2 Sequence Diagram Appointment & Home Service



3.4 Augmented Reality

3.4.1 Description and Priority

- Priority 7
- Visualize on how a person may look
- Different filters
- Example includes: makeup

3.4.2 Stimulus/Response Sequences

5. User will be asked permission to take pictures
6. User will be asked permission to store file
7. User may use different filters etc. to see how she may look
8. Store files

3.4.3 Functional Requirements

- Android Device with at least 6 Megapixel front (or rear) camera
- Permission to agree
- Permission to store files

3.4.4 Main Functional Chart

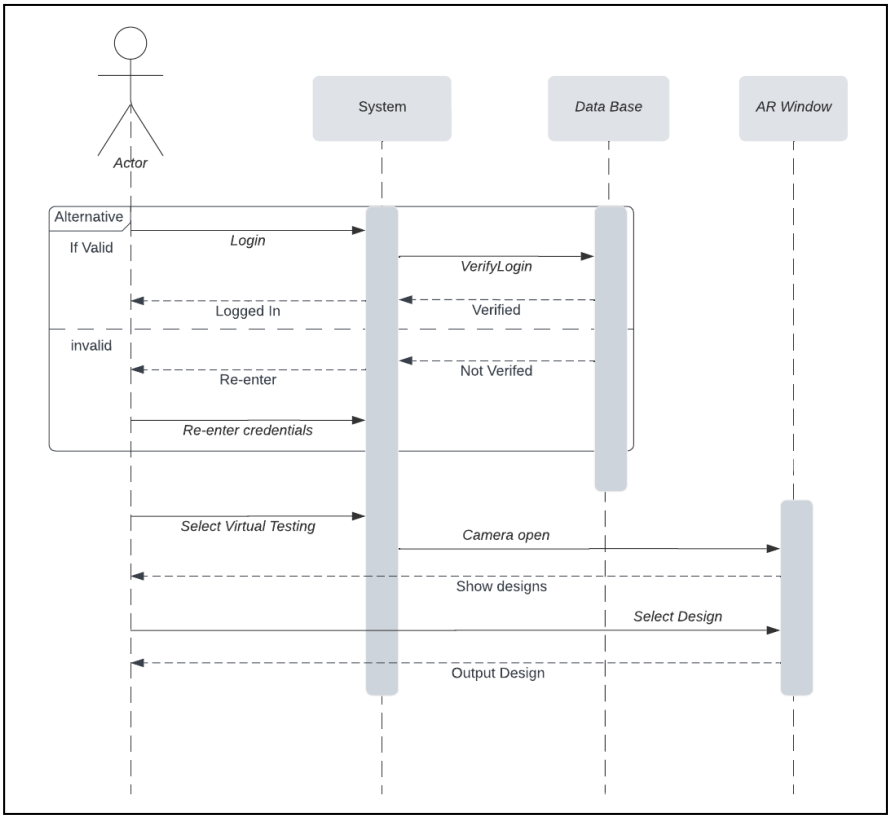
USE CASE NAME	Augmented Reality (Beautification)
ACTORS	Users
DESCRIPTION	The case represents user utilizing the AR component

TYPICAL COURSE OF EVENTS	1) User starts program and logs in. 2) The user moves over to the lens feature.	3)Tries out filter option for beautification.
ALTERNATE COURSE	1)User starts wrong program 2)Desired filter not there	-
PRECONDITION	Active online network connection as well as phone compatible	
POSTCONDITION	The user has successfully utilized the feature.	
ASSUMPTION	The User is aware of the camera results	

3.4.5 Components

Identification	Virtual Testing
Type	Class
Purpose	Provide on screen testing for make-up etc.
Function	This will allow the users to test out any makeup etc. before-hand
Dependencies	The basic use of camera function of an android device.
Interfaces	Camera with filter options
Resources	Android Devices with 7.0 above android version.
Processing	Selecting Virtual testing on the main user dashboard
Data	Data will be saved in either mobile storage or None.

Fig 3.3 Augmenter Reality (Virtual Testing)



3.5 Online Store

3.5.1 Description and Priority

- Priority 5
- Purchase products
- Range of products including cosmetics and hair color etc.
- Example includes: hair color, makeup etc.

3.5.2 Stimulus/Response Sequences

4. User will move over to store section.
5. Select items they are willing to buy
6. Select payment method (CoD or payment)

3.5.3 Functional Requirements

- Home Address in case of cash on delivery

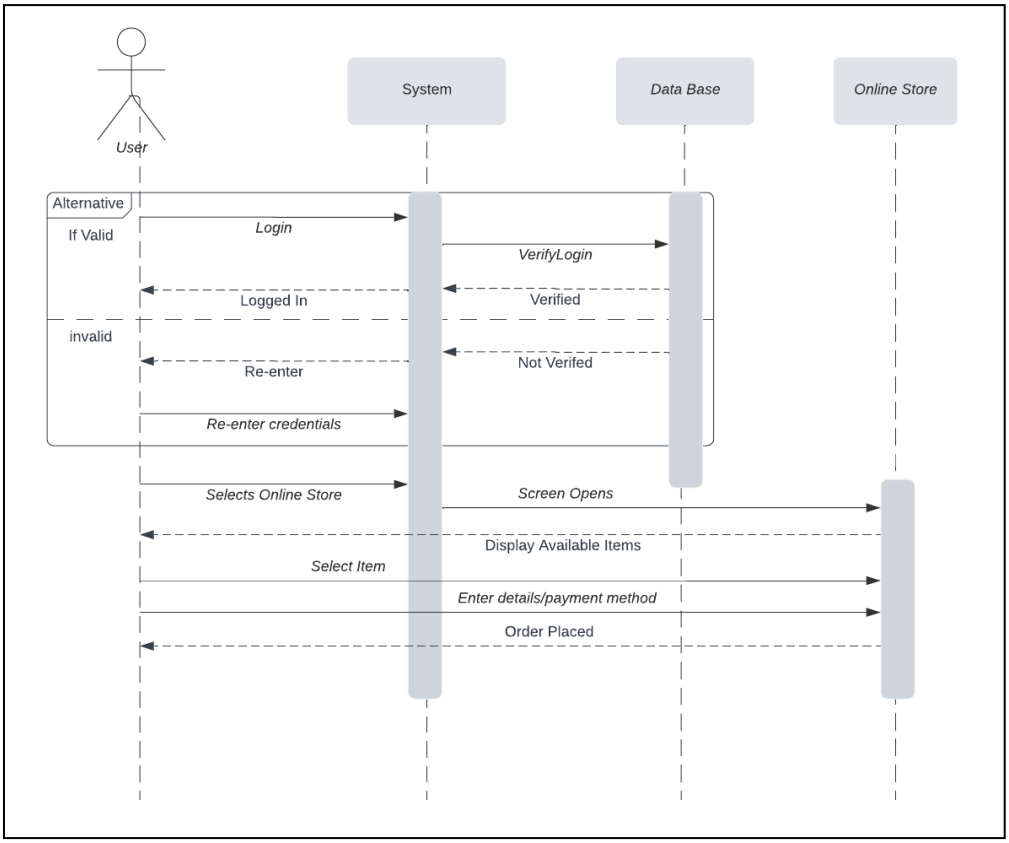
3.5.4 Main Functional Chart

USE CASE NAME	Online Store	
ACTORS	User	
DESCRIPTION	The case represents user buying products	
TYPICAL COURSE OF EVENTS	1)User starts program 2)Users logs in. 3) Goes to Store menu 4) Selects products to buy 5) Selects payment method	6)Add the details according to the payment method. 7) order placed.
ALTERNATE COURSE	1)User starts wrong program 2)User fails to enter details. 3) Fails to pay	4)Online payment bounces back.
PRECONDITION	Active online network connection	
POSTCONDITION	The actor has placed order	
ASSUMPTION	The desired product is available	

3.5.5 Components

Identification	Online Store
Type	Class/Page
Purpose	Provide a list of items from which the user can choose/select any product to buy.
Function	This will allow the users to purchase any product they would like to try out or have for themselves
Dependencies	The user must have a registered account on *Saloonify*. Must have a valid credit/Debit card or home address.
Interfaces	Interface will be in a grid view or a dynamic list on the screen.
Resources	Android Devices with 7.0 above android version.
Processing	Selecting Online Store on the main user dashboard.
Data	Data saved firebase Database.

Fig 3.4 Sequence Diagram Online Store



3.6 Payment Gateway

3.6.1 Description and Priority

- Priority 2
- Regular Payment method
- Opened upon selection

3.6.2 Stimulus/Response Sequences

5. After selecting items to buy, option will be given for COD or Online
6. Form appears
7. Details entered, will not proceed if left empty
8. Payment will be made

3.6.3 Functional Requirements

- Valid Debit/Credit Card

3.6.4 Main Functional Chart

USE CASE NAME	Payment Gateway	
ACTORS	User	
DESCRIPTION	The case represents user making payment in the online store	
TYPICAL COURSE OF EVENTS	1) User starts program and opens store. 2) Selects product 3) Enters Details and selects payment method.	3)enters address etc for COD. 4)Enters card details for online transaction.
ALTERNATE COURSE	1)User starts wrong program 2)Ends up going on the wrong menu.	3)Does not enter any details. 4) Not enough money
PRECONDITION	Active online network connection	
POSTCONDITION	The user has/will - made/make the payment	
ASSUMPTION	The user has enough money to buy the product.	

3.7 Inventory

3.7.1 Description and Priority

- Priority 6
- Inventory Management for Admin
- Add Items for users to buy from store

3.7.2 Stimulus/Response Sequences

3. Accessible only for admin.
4. May Add or Remove items

3.7.3 Functional Requirements

- Items themselves

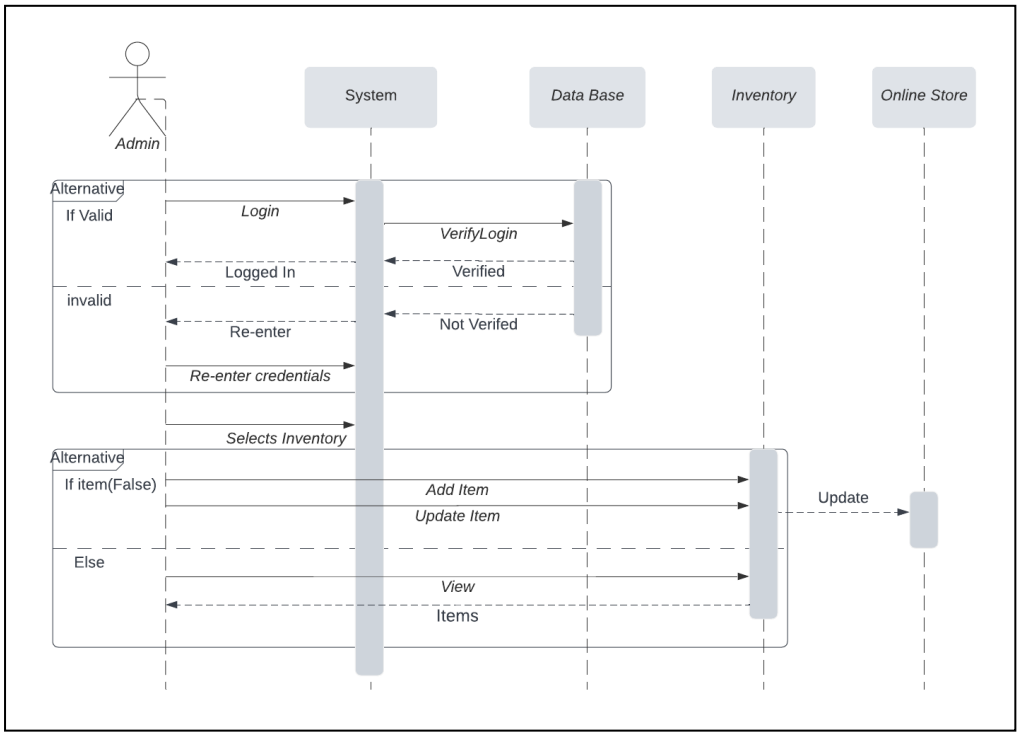
3.7.4 Main Functional Chart

USE CASE NAME	Inventory	
ACTORS	Admin	
DESCRIPTION	The case represents admin managing the inventory	
TYPICAL COURSE OF EVENTS	1)Admin starts program. 2)Admin logs in. 3)Moves towards inventory section 4) May add or remove items	5)Will be updated in the online store
ALTERNATE COURSE	1)Admin starts wrong program 2)Admin fails to open correct tab. 3) fails to update correctly.	4)forgets to update data.
PRECONDITION	Active online network connection	
POSTCONDITION	The actor has updated the inventory.	
ASSUMPTION	Items are available in stock.	

3.7.5 Components

Identification	Inventory
Type	Class/Page
Purpose	To maintain a record of items that are available in the online store.
Function	Administrator will be able to view the inventory as well as perform add/delete function with the items that will be updated in the online store.
Dependencies	The admin must have a registered account on *Saloonify.*
Interfaces	Interface will be in a grid view or a dynamic list on the screen.
Resources	Android Devices with 7.0 above android version.
Processing	Selecting Inventory on the main admin dashboard.
Data	Data saved firebase Database.

Fig 3.5 Sequence Diagram Inventory



4. User Interface Design

4.1 Section Overview

This section provides an overview to the user interface of Saloonify. The detailed description to the of specific themes and layout and what drives those particulars on defining Saloonify.

4.2 Interface Design Rules

Following are Saloonify's defining User Interface Rules:

- Minimalistic interface design
- Keyboard support
- Readable content
- Buttons and interactable content are easy to use
- Visibility of content is maintained i.e text, buttons etc. are of reasonable size.
- Design and color schemes depict our problem theme

4.3 Graphical User Interface Components

4.3.1 Components

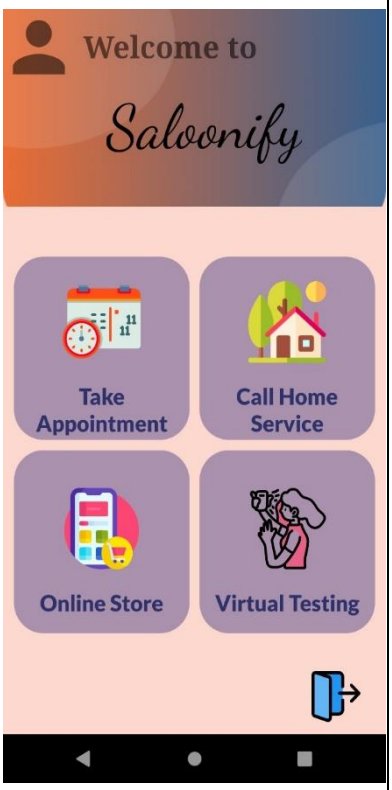
- Text Field
- Input Field
- Button

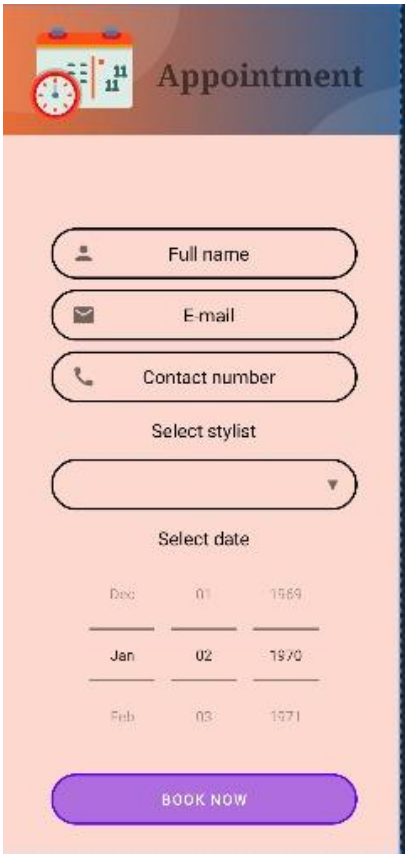
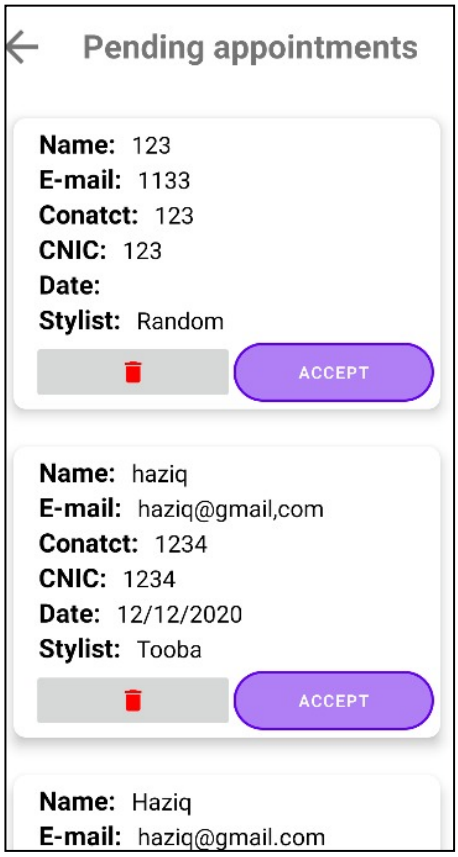
- Constraint Layout
- Linear Layout
- Image view
- Background Image
- Spinner

4.3.2 External API's

- Sceneform for Augmented Reality

4.4 Detailed Description

User Login	Admin Login	User Dashboard
		

Appointments(user-end)	Appointments(admin-end)
	

5. Design Decisions and Tradeoffs

As far as physical salons are concerned, they entertain walk-in customers as well, whereas in Saloonify that is not possible as we are providing an online service for booking appointments and home service.

6. Pseudocode for Components

6.1 Login and Registration

6.1.1 Login

6.1.1.1 User

```
begin
login = False
pass, email = False
while(login == False){
    print("username: ")
    readLine(inemail)
    print("password: ")
    readLine(inpass)
```

```
    if(inemail.dictionary == True){
        email == True
        if(inpass.dictionary == True){
            pass == True
            login=True
            print("successfull Login")
        }else{
            pass=False
            login=False
            print("unsuccessfull Login")
        }
    }else{
        pass=False
            login=False
            print("unsuccessfull Login")
    }

}
if(login==True){
    print("You have been logged in!!")
}else{
    print("wrong credentials, please try again")
}
end
```

6.1.1.2 Administrator

```
begin
login = False
pass, username = False
while(login == False){
    print("username: ")
    readLine(inUsername)
    print("password: ")
    readLine(inpass)

    if(inUsername.dictionary == True){
        username == True
        if(inpass.dictionary == True){
            pass == True
            login=True
            print("successfull Login")
        }else{
            pass=False
            login=False
            print("unsuccessfull Login")
        }
    }else{
        pass=False
            login=False
            print("unsuccessfull Login")
    }

}
if(login==True){
    print("You have been logged in!!")
}else{
    print("wrong credentials, please try again")
```

```
}
end
```

6.1.2 Registration

```
begin
email = readLine("Enter email")
pass = readline("Enter password")
conPass = readline("re-enter password")
If((email is correct) && (pass&&conPass is matching ){
   print("Account created!!")
    registration.instance[]==enter.DB
}
Else
   print("credentials are incorrect, Please Try Again")
Print “Error, Enter the correct details again”
End
```

6.2 Appointments & Home Service

```
begin
if access == appointments{
   print(appointmentsForm)
   readLine("enter fullname")
   readLine("enter Email")
   readLine("enter contact number")
   readLine("stylist")
   readLine("Date")
   appointments.instance[] == enter.DB
}
ElseIf access == homeService{
   print(homeServiceForm)
   readLine("enter fullname")
   readLine("enter Email")
   readLine("enter home address")
   readLine("enter contact number")
   readLine("stylist")
   readLine("Date")
   homeService.instance[] == enter.DB
}
End
```

6.3 Feedbacks

6.3.1 User Side

```
begin
if access == feedback{
   print(feedbackForm)
   readLine("enter name")
   readLine("enter Email")
   readLine("enter contact number")
   readLine("Enter message")
   feedback.instance[] == enter.DB
}
Else{
```

```
    Access == `other`
}
end
```

6.3.2 Admin Side

```
begin
if access == feedback{
    print(feedback)
}
Else{
    Access == `other`
}
End
```

6.4 Online Store

```
begin
if access == onlineStore{
    print(Items[])
    if Items[]==selectItem{
            Items[]==cart
   }else{
   Return null
            }
   Display(search)
   Readline()
   If(search==True){
            Print(Items[])
            }
}
End
```

6.5 Inventory (admin end)

```
begin
if (access == inventory){
    print(Items[])
invOption=Readline()
    if (invOption==addItem){
            additem()
   }else if (invOption==EditItem){
            If(Items[]==null){
            continue
          }
          editItem();
            }else{
            Return null
            }
```

6.6 Virtual Testing

```
begin
if access == virtualTesting{
    openCamera()
   Print(model)
}
Else{
    Access == `other`
}
End
```

7. Appendices

7.1 Appendix A: Project Timeline FYP-I

Saloonify - Iteration Plan					
S.No.	Features	FYP-I Iterations			
		Monthly Iteration-I	Monthly Iteration-II	Monthly Iteration-III	Monthly Iteration-IV
F1	Account & Profile	Requirements(100%)			
		Design(20%)	Design(80%)		
			Implementation(100%)		
			Testing(100%)		
F2	User Dashboard	Requirements (50%)	Requirements (50%)		
		Design(10%)	Design(90%)		
				Implementation(100%)	
				Testing(100%)	
F3	Admin Dashboard	Requirements (50%)	Requirements (50%)		
		Design(10%)	Design(90%)		
				Implementation(100%)	
				Testing(100%)	
F4	Appointments	Requirements(20%)	Requirements(50%)	Requirements(30%)	
			Design(50%)	Design(50%)	
				Implementation(80%)	Implementation(20%)
				Testing(75%)	Testing(25%)
F5	Home Service	Requirements(20%)	Requirements(50%)	Requirements(30%)	
			Design(50%)	Design(50%)	
				Implementation(80%)	Implementation(20%)
				Testing(75%)	Testing(25%)
F6	Feedback		Requirements(50%)	Requirements(50%)	
				Design(50%)	Design(50%)
				Implementation(10%)	Implementation(90%)
					Testing(100%)
Output Features			**F1**	**F2, F3**	**F4, F5, F6**

7.2 Appendix B: Project Timeline FYP-II (tentative)

Saloonify - Iteration Plan					
S.No.	**Features**	**FYP-II Iterations**			
		Monthly Iteration-I	**Monthly Iteration-II**	**Monthly Iteration-III**	**Monthly Iteration-IV**
F1	Inventory	Requirements(100%)			
		Design(100%)			
			Implementation(100%)		
			Testing(100%)		
F2	Online Store	Requirements (100%)			
		Design(100%)			
			Implementation(100%)		
			Testing(100%)		
F3	Payment Gateway		Requirements (100%)		
				Design(100%)	
				Implementation(100%)	
				Testing(100%)	
F4	Virtual Testing	Requirements(25%)	Requirements(25%)	Requirements(50%)	
				Design(50%)	Design(50%)
				Implementation(50%)	Implementation(50%)
				Testing(25%)	Testing(75%)
Output Features			**F1,F2**	**F3**	**F4**

Testing Document

1. Appointments and Home Service

Test Case	Description	Expected Output	Output	Result
Negative				
1	Feature not utilized	-	-	Pass
2	Either of the fields left blank	“Kindly fill the fields”	Error Message	Pass
3	Service Rejected	“Stylist rejects request”	Relevant message	Pass
4	Either of the fields are not according to format	“Invalid Format, Enter in the correct `Field` format”	Error message	Pass
Positive				
5	Accepted request	`Service Booked`	Relevant message	Pass
6	All fields successfully entered	`Request Sent`	Relevant message	Pass

2. Augmented Reality

Test Case	Description	Expected Output	Output	Result
Negative				
1	Feature not utilized	-	-	Pass
Positive				
2	Virtual Testing Chosen	`Filters Applied`	`Filters Applied`	Pass

3. Online Store

Test Case	Description	Expected Output	Output	Result
Negative				
1	Store not used	-	-	Pass
2	No items selected	“No items are Selected”	Error message	Pass
3	Item out of stock	“Item is out of stock”	Error message	Pass
Positive				
4	Opened to view only	`Items Appear`	`Items Appear`	Pass
5	Selects Item	`Item Added `	`Items Added`	Pass
7	Order Placed	`Order Successfully Placed`	`Order Successfully Placed`	Pass

4. Login and Registration

Test Case	Description	Expected Output	Output	Result
Negative				
1	Both fields are black	“Enter the Fields”	Error message	Pass
2	Email field is blank	“Enter the Email” Message	Error message	Pass
3	Password field is blank	“Enter the password”	Error message	Pass
4	Wrong Password and valid Email	“Incorrect Password”	Error message	Pass
Positive				
5	Correct Email and Password	`screen moves towards the dashboard`	Screen changes	Pass
6	Forgot Password Pressed	`screen moves towards F-P form`	Screen changes	Pass
7	Account Registration	Enter email and a password	‘Account Created’	Pass

5. Payment Gateway

Test Case	Description	Expected Output	Output	Result
Negative				
1	All fields are blank	“Enter the Fields”	Error message	Pass
2	Either of the Fields are blank	“Enter the field(s)” Message	Error message	Pass
3	Wrong Information entered	“Wrong Information entered”	Error message	Pass
4	Not enough balance	“Not enough balance”	Error message	Pass
Positive				
5	Correct details	`Payment Completed`	Screen changes/Message appears	Pass

6. Inventory

Test Case	Description	Expected Output	Output	Result
Negative				
1	Inventory not opened	`no transition`	Error message	Pass
Positive				
2	To add item(s)	`Added Successfully`	“Item Added”	Pass
3	To view items	`Views`	-	Pass

User Manual

1. Account Registration

To access the app's full features, you need to create an account:

1. Open the app and click on "Register."
2. Fill in the required details, such as name, email, and password.
3. Verify your email to complete the registration process.

2. Home Screen

Here you will see the dashboard where you can navigate through the features Saloonify offers.

3. Appointment Booking

1. Click on "Book Appointment" to explore available services.
2. Select the desired stylist, service, date, and time.
3. Confirm your booking to secure your appointment.

4. Home Service Booking

1. Click on "Book Appointment" to explore available services.
2. Select the desired stylist, service, date, and time.
3. Confirm your booking to secure your appointment.

5. Online Store

1. Access the "Online Store" to explore a wide range of beauty products.
2. Browse different categories and products.
3. Search for a product if you like.
4. Add products to your cart, proceed to checkout, and complete the purchase.

6. Virtual Testing

1. Click on "Virtual Testing" to experience virtual makeup and hairstyles.
2. Click on the filter you would like to try and see how you look.
3. To change just select another filter.
4. Click on the shutter icon to take a picture.

7. Plagiarism Certificate

This is to certify that we, Hasan Abdul Moeed Khan S/O Abdul Moiz Khan and Muhammad Haziq S/O Izhar Ahmed, are the members of FYP group Saloonify under registration numbers 1912145 and 1912394 respectively, at the Department of Computer Science at SZABIST, Karachi. We certify that our FYP documentation has been reviewed by our advisor and the work presented is our own.

Name of Advisor: -
Designation: -

Signature: _____

8. Plagiarism Report

Turnitin Originality Report

Saloonify_-_Final_Report.pdf by Anonymous

From SummerReports (Summer2023)

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9. Student Log Form

9.1 FYP– 1

SHAHEED ZULFIKAR ALI BHUTTO INSTITUTE OF SCIENCE & TECHNOLOGY KARACHI CAMPUS

Form IV: Student Log Form

Title: Saloonify

Supervisor: Sir Faizan Tahir Batch/Sec: B Group #: 61

Reg. # (Group members): 1912145 , 1912394

Sr.	Task Assigned	Due	Task Completed (S)	Date (S)/Sign.
1	Project selection	13th Oct 22	"Saloonify" Project Finilized	
2	Research on project & preparation of Proposal and Presentation	20th Oct 22	Research completed and Proposal Submitted	
3	features added in proposal and ~~new~~ proposal updated	27th Oct 22	Proposal Updated.	
4	To start and plan SRS	3rd NOV 22	SRS started	
5	Work on SRS and start development	10th NOV 22	Written work completed. Splash and login frontend completed.	
6	make diagrams and admin screen.	17th NOV 22	diagrams completed, admin login completed	

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7	corrections in ~~too~~ diagrams and construct backend	24th NOV 22	corrections made, backend first constructed for admin	
8	Finilise SRS and complete login for user.	1st Dec 22	SRS Completed and login of user Completed	
9	To make dashboards for user and admin	8th Dec 22	Dashboards completed.	
10	start and plan SDS	15th dec 22	work started on SDS	
11	user side appointment started and SDS update	22nd Dec 22	Completed SDS and user can book appointments.	
12	make additional Diagrams feedback and homeservice.	5th ~~Dec~~ Jan 23	Diagrams made feedback enabled, homeservice operational.	
13	Corrections in diagrams and make new ones	12th Jan 23	Diagrams corrected.	
14	work on admin side (view appointments/H.S, feedbacks)	19th Jan 23	Admin can view, accept, delete services, feedbacks.	
15	corrections in SDS and finilize features for FYP-I	26th Jan 23	SDS Finilized and features of FYP-I Completed	

Supervisor's Authentication (Completed report): _____ Dated: 26/1/23

FYP Coordinator Authentication: _____ Dated: 26/1/23

9.2 FYP – 2

SHAHEED ZULFIKAR ALI BHUTTO INSTITUTE OF SCIENCE & TECHNOLOGY KARACHI CAMPUS

Form IV: Student Log Form

Title: Saloonify

Supervisor: Faizan Tahir Batch/Sec: 23/B Group #: 61

Reg. # (Group members): Hasan Abdul Moeed Khan, Muhammad Hafiz

Sr.	Task Assigned	Due	Task Completed (S)	Date (S)/Sign.
1	Make UI for admin to handle Products	9-3-23	Designed UI for Inventory (Admin Side)	
2	Implement add and delete Product	16-3-23	Implemented add & delete for the admin side	
3	Implement update product	30-3-23	Implemented product update for the admin	
4	Implement user view (UI)	6-4-23	UI for the user side online store	
5	Bring data of products to user end	20-4-23	Render data at user side	
6	Implement search in online store	27-4-23	Implemented ~~seact~~ search in online store (user side)	

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7	Implement Cart	5-5-23	Task completed	
8	calculate total	11-5-23	Task completed	
9	make delivery form	18-5-323	form created	
10	Generate bill	25-5-23	bill Generated	
11	Render orders to the admin	1-6-23	order list displayed	
12	Start Virtual Testing	8-6-23	started work on VT	
13	Work on VT	15-6-23	worked on VT	
14	Work on VT	22-6-23	work on VT	
15	Complete VT	29-6-23	Task completed	

Supervisor's Authentication (Completed report): _____ Dated:_____

FYP Coordinator Authentication:_____ Dated:_____