

## **Carnegie Mellon University Africa**

### **Android Mobile App Development**

#### **SukaFasta – Explore Phase**

##### **Team members:**

1. **Aanuoluwapo Orioke (aorioke)**
2. **Furaha Saleh Benedict (fbenedic)**
3. **Malachi Ugwu Chukwuemeka (mugwuchu)**

##### **Project : Hairdressing Salon Booking Appointment (SukaFasta)**

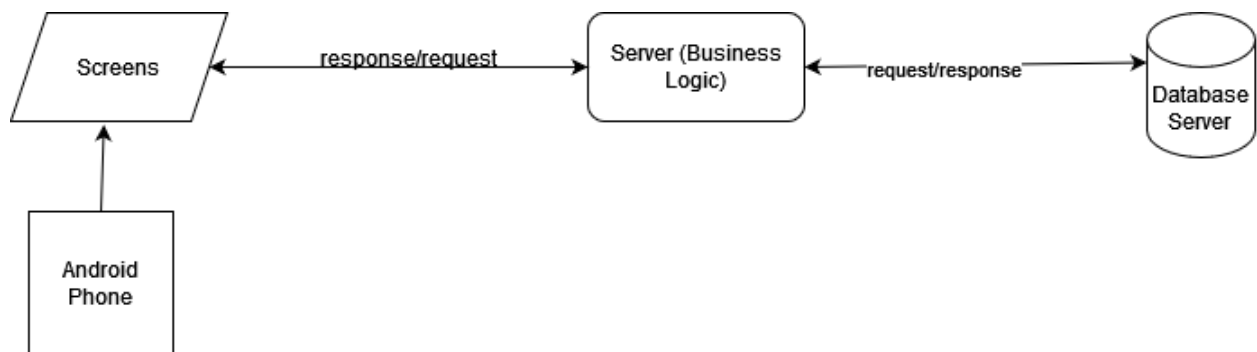
##### **Activity:**

For this iteration our goal was to implement high priority tasks as described below, and find testers for our application. In regards to testers, we got one hairdresser from a beauty salon in Kigali, and our fellow students at CMU Africa will serve as client testers.

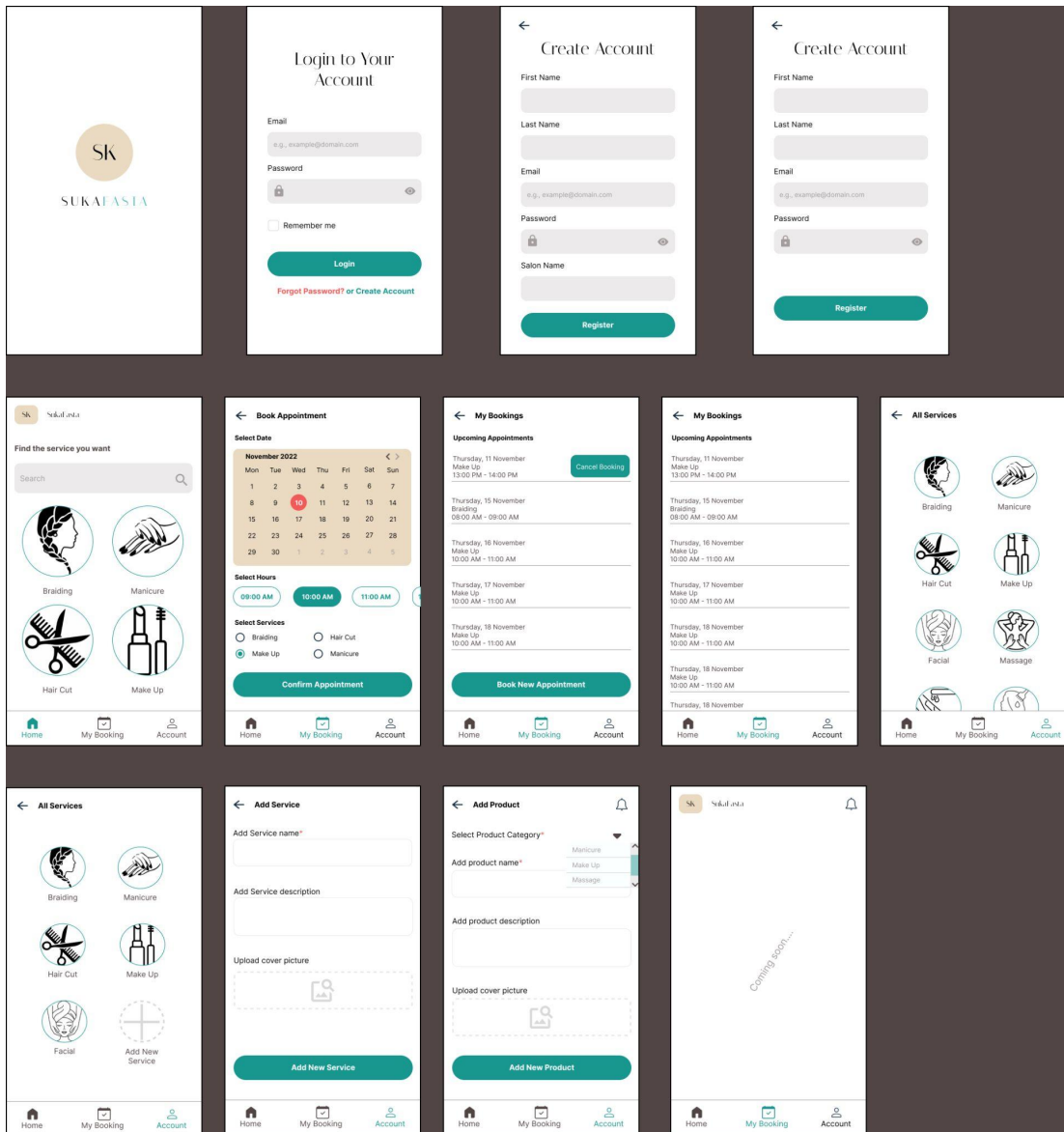
##### **High priority tasks in iteration 1:**

- 1) Design the user interface
- 2) Implement registration and login for users and hairdressers
- 3) Implement add service
- 4) Implement the set appointment date and time

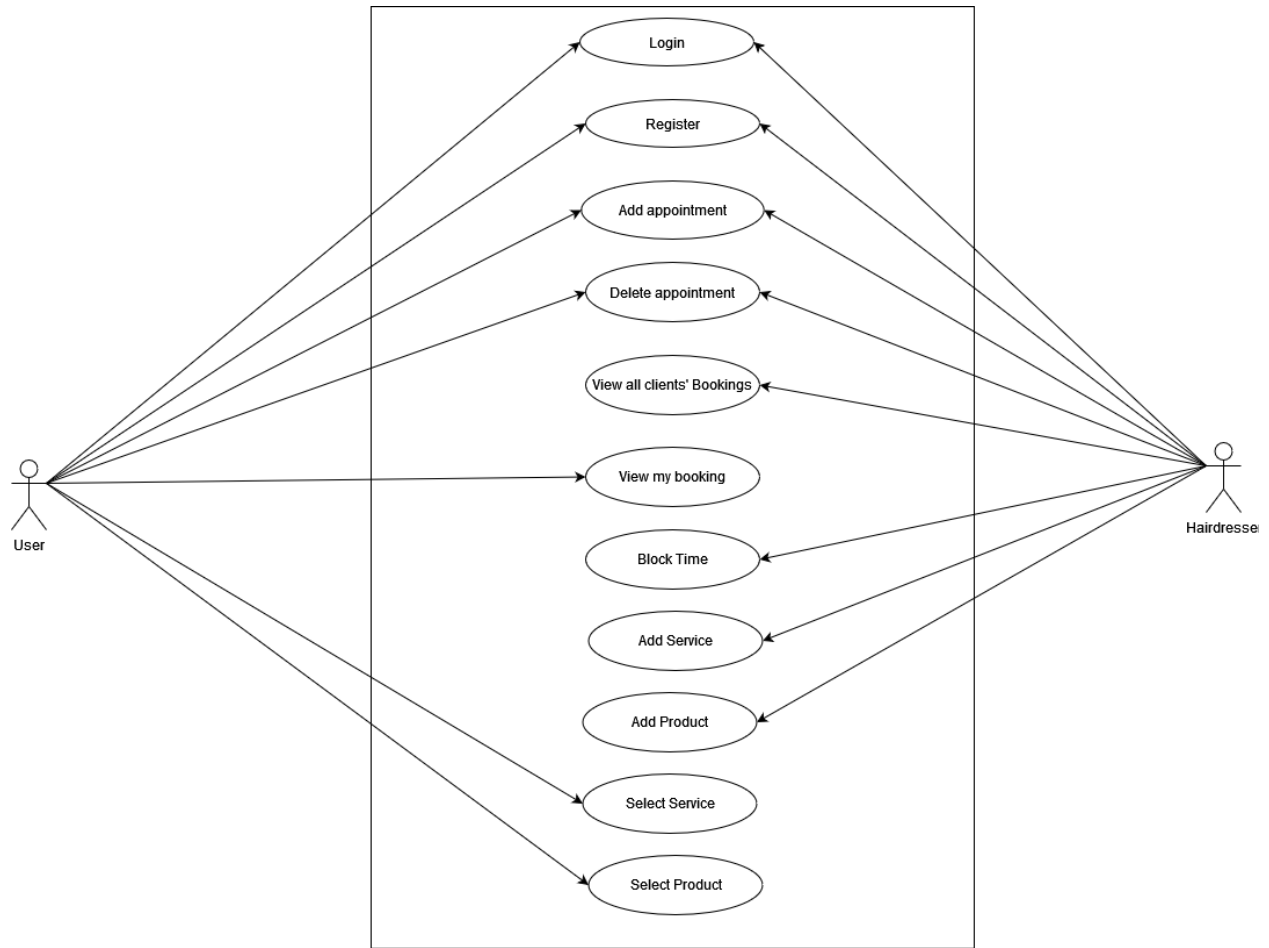
##### **High Level Architecture Diagram**



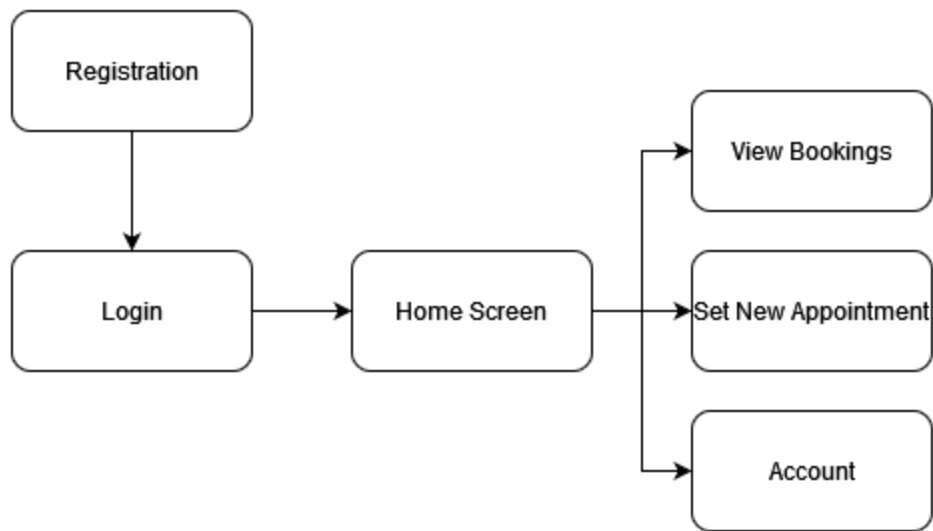
## Project Wireframe



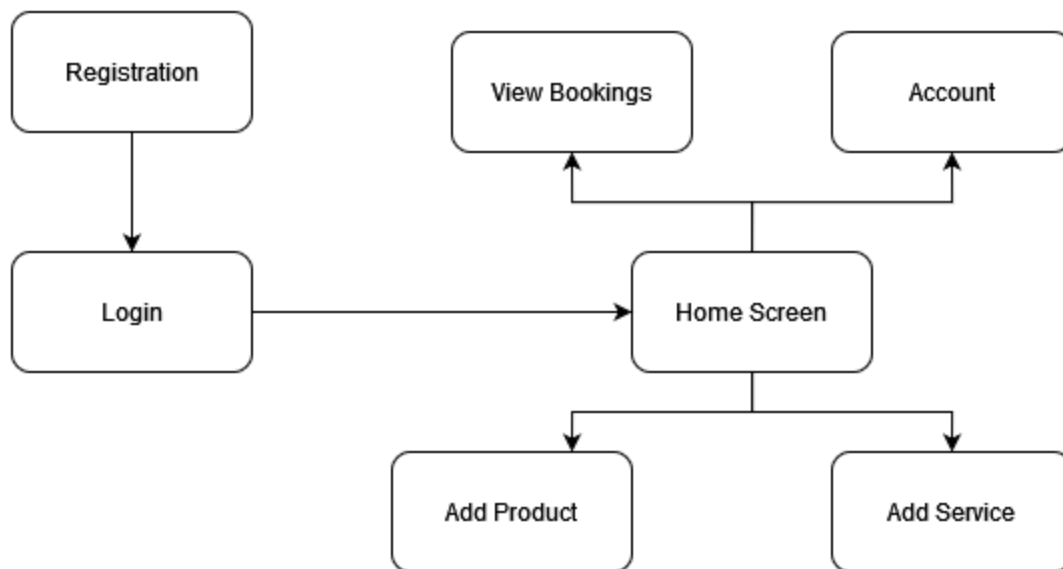
## Use Case Diagram



#### CLIENT'S SCREEN FLOW



#### HAIRDRESSERS



#### Programming Task Completed:

- 1) Implement registration and login for users and hairdressers
- 2) Design the user interface
- 3) Implement add service
- 4) Implement the set appointment date and time.

#### Prototypes Completed

- 1) Wireframes/ Designs - Figma

- a) Landing Page of Registration and Login
  - b) Landing page for adding services
  - c) Landing page for adding products
  - d) Interactive user interface for setting appointments
- 2) Demo (ScreenShots)

### **Development Completed**

- 1) Interactive User interface for Registration, Login and Setting Appointments

### **Technical Architecture Completed**

- 1) Navigation flow diagram
- 2) Use case diagram
- 3) High level architecture (diagram) of how our UI will interact with the database

### **Research/Tutorials Completed**

- 1) Research on free database options for storing users (hairdressers and others) information
- 2) Tutorials on how to implement each feature in iteration 1
- 3) Research/Tutorials on the various components we'll be needing for the features in iteration 1, e.g. material icons, etc.
- 4) User research (decide on hairdresser and users we'll test the app on)

### **Time Spent on Promised Tasks**

All Task	Status	Estimated time	Time Spent	Difficulty
Implement registration and login for users and hairdressers	Completed	10hrs	20hrs	High
Design the user interface	Completed	3hrs	3hrs	High
Implement add service	Completed	5hrs	10hrs	High
Implement the set appointment date and time.	Completed	5hrs	10hrs	High

The time to implement each of these features were demanding as new layout designs was learnt to implement them. The registration was implemented using firebase for user registration. Thus, once a user registers, their registration credentials are saved in Firebase. Implementing

navigation between the different pages was quite challenging as we were unfamiliar with how navcontrollers work.

## SukFasta Demo

Login Page	Create Account Page	Book Appointment
<div><div>Login to Your Account</div><div><div>Email</div><div>aorioke@andrew.cmu.edu</div></div><div><div>Password</div><div>*****</div></div><div>Login</div><div><div>Create an Account</div><div>Forgot Password?</div></div></div>	<div>Create Account</div> <div><div>First Name</div><div>Last Name</div><div>Email</div><div>Phone Number</div><div>Hairdresser or Client</div><div>Salon Name</div><div>Password</div></div> <div>Sign Up</div> <div>Login Instead</div>	<div>Book Appointment</div> <div><div>Select Date</div><div>Pick Date</div></div> <div><div>Selected Date:</div></div> <div><div>Select Time</div><div>Pick Time</div></div> <div><div>Selected Time:</div></div> <div><div>Select Service:</div><div><div><input checked="" type="radio"/> Braiding</div><div><input type="radio"/> Hair Cut</div><div><input type="radio"/> Make Up</div><div><input type="radio"/> Manicure</div></div><div>Selected Service: Braiding</div></div> <div>Confirm Appointment</div> <div><div>Home</div><div>Booking</div><div>Add Service</div><div>Account</div></div>
Adding Service Page	Time Picker	Date Picker

