Ahsanullah University of Science & Technology

Department of Computer Science & Engineering

Helping Hand(beta)

Software Engineering III (CSE 2200)

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ABSTRACT

The project titled "Helping Hand" is a Help/Service sharing app. This project will be developed in Android Studio 2022.1.1 and Online database will be maintained by using Firebase. This app mainly focuses on basic functions of requesting a help or service from any place and the location of users will be tracked. The app will have basic features like, user login, profile, nearby available requests. New users can open a user account quite easily after filling up a registration form provided with username and password. An user will have the opportunity to update his/her account details, visit his/her profile. An user will be able to request help as well as accept others' help requests.

Overall the key purpose of this project is to provide a friendly, helping and positive environment to the users and their society.

Software Platform:

• The project will be developed using Kotlin
• Android Studio 2022.1.1
• Firebase Online Server

Identification of functional requirements:

• **User Login:**
   This feature allows users to login to the system. A user can log in to the system by providing username and password. After proper verification of the username and password, valid users will be allowed to enter into the homepage of the app. A username and password mismatch will not allow someone to enter into the home page and the user will be asked to re-enter his/her username and password. The user can also view his profile and edit his profile information.

• **New User Registration:**

This feature allows any person to create an account for himself. This option will be available at the start of the program. A new member has to fill up a registration form providing his name, email, profile picture, username and password. After providing valid information a new user can create an account for himself and later he will be allowed to enter the app and access of functionalities of the app.

• **Manage Account:**

This feature can allow a user to change their name and profile picture and other informations.

• **Request Service:**

This feature allows a user to search for a particular service and request it from the nearby helpers from the user's location. The feature will have different UI along with different required information for different categories of services.

• **Accept Request:**

This feature allows a user to view all the available ongoing or active request near his/her location and the user can accept any request of any category and tend to those request to earn social credits.

• **Social Credit(curency):**

This feature enables the user to donate some money(encrypted and the amount hidden) to the people volunteering to help them. Every registered account within the app will have a Wallet to show the balance(real money and amount will be shown) which will be updated Realtime and another wallet for the social credit(encrypted) which will be updated once in every month.

Table 01: Identifier and priority for software requirements

#	Requirement	Priority
R1	User Login	High
R2	New User Registration	High
R3	Accept Request	High
R4	Request Help	High
R5	Social Credit system	High