

**Department of Electrical and Computer Engineering**

**North South University**

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**CSE 299: Junior Design Course**

**Project Proposal**

Section: 04

Group Number: 03

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# **1 Introduction**

## **1.1 Purpose:**

The purpose of our project is to make a mobile application which is convenient to use and search for shops. The name of our application is “KHUJO”. We want to make things little bit easier for the users.

### **1.1.1 Vision Statement:**

The aim of this application is to help people from all backgrounds for finding an easy solution based on their search or their desired needs. This will help them to consume their time and use less effort.

### **1.1.2 Scope:**

This application has the scope for building a community where people can easily look for their desired shops. There will be database maintained also on the products of shops, co-ordinates of the shops. We will include simple English language for the understanding purpose. In further part, we will try to include other languages as well.

## **1.2 Document Convention:**

We will try to give the outlook as easier as possible. We will use different kinds of icons and options for making the application user friendly.

We will use Times New Roman for documents writings and use italic, highlighted or bold features for different purposes.

## **1.3 Project Scope:**

This project has the feature of Google Maps. So we can easily locate our desired shops. Most of the people are familiar with the Google Maps. That’s why we are using it. Currently we are developing our application for only Bashundhara Residential Area. Gradually we will broaden our range which will also help the people who are from other parts of Dhaka.

# **2. Overall Description**

## **2.1 Product Perspective:**

This product is going to be a follow-on member of a product family of an App ( a particular purpose) more precisely it’s going to be a mobile application (Android App). There are many useful mobile applications but ours app will be a helping hand for finding groceries and daily household things by just a tap. This product will help people in a certain area to find shops and our app will help them find the directions also. It will also provide other functions like reminder of events, can create list for what they want to buy later etc. In this we are using Google API for maps to find the shop location. Our app will guide the user to find the nearest shop. First of all user have to sign in. User can sign in via opening their own account via name and email. One thing to remember is whenever the app is running we have to turn on our GPS. Then he/she can select item from search bar and search for nearest shop to buy their desired items. Another function our app will have that is create list for next day or next week. So the app will remind the user to buy things and guide them. In this project, we will have a database management system for collecting shop’s details information. Database will be manually inserted for this short purpose. We are choosing Bashundhara Residential area for this project so we will have most rated shops information and data in our database system. So that user can know more about the shop and the prices.

## **2.2 Product Functions:**

The major features of our “KHUJO” application are-

* User Registration: Users have to register in our app with his/her name, email address. After giving the correct information user will have his/her own profile.
* Login: After registration step user now can login in to their profile to use our app. He/she can also login via gmail or facebook. But this feature is under development stage. We will highlight this part later.
* Create list and Add items: In this part user can create list and add items that he/she wants to buy right now or later. If he/she wants to buy later than they can put reminder notification in this app.
* Search: In search option user can search for any groceries or any household products. And can see the map for the desire shop.
* Shop information: For shop information our app will have a database system where user can see or search for shop information. So that they can have an idea about the shop and shop’s products.
* Directions to desired shop: After select all items user wants to buy then he/she can search for direction for going to the shop. Our app will assists user for the nearest shop and also for shortest path to choose for them.

## **2.3 Operating Environment:**

Our “KHUJO” project in based on mobile app so, we are going to established it in Android environment.

* Operating System: Android (Handset).
* Coding Language: Java.
* Tool Kit: Android 8.1 Oreo.
* IDE: Android studio.
* The Android SDK and add-ons such as the Google Maps SDK.
* 6. Fire-base for database management system.

All these tools are going to use to establish this project. Our app will work on android version only and handset smartphone.