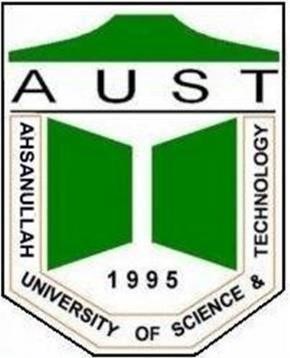
**AHSANULLAH UNIVERSITY OF SCIENCE & TECHNOLOGY**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



**CORNER SHOP MANAGEMENT**

Software Development III (CSE 2200)

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**ABSTRACT**

The project titled **“Corner Shop Management”** is a Bangladesh-specific corner shop management system, packed with essential resources and methods with a view to making shopping around every corner of the country easier and more convenient than ever. This application focuses not only on the high-end shops but also on the absolute basic level of shops around the corner. A user can use this app to shop from any corner around him without having to think about stock availability and the sellers can use this app for both selling their shop products and do shopping for their own house-holdings. This project will be developed in Android Studio. The name of the application will be **“Corner Shop”**.

In a nutshell, the main purpose of this project is to make both selling and buying from corner shops easier and more efficient with the help of digitalization.

**Software Platform:**

* The project will be developed using KOTLIN in Windows OS
* Android Studio 2020.3.1

**Identification of Functional Requirements:**

* **Login:**

This feature allows user to sign in using phone number. Here a user can sign in by providing phone number and password. After providing valid information a user is signed in.

* **Registration:**

This feature enables new users to create an account on this platform. A user has to provide his phone number, location, name and set a password in order to create an account. Only one account can be created using one phone number.

* **Location:**

This feature uses the GPS in a user’s phone to track down his/her location and shows the shops around that location.

* **Search:**

After logging in a user can use this feature to search for their desired product and see its stock availability and prices in different shops around the corner.

* **Category Block:**

This feature is used to show the shops around a location based on different categories (e.g., Medicine, Groceries, Clothes etc.)

* **OCR:**

This feature enables user to search or store a product using OCR function. A user can use this feature to read the name of a product without having to manually input the name.

* **Add to Cart:**

This feature allows user to add items from a shop to the cart. A user can add his desired items and store them in the cart with the help of this feature. The cart then stores those items until the user checks out or removes the items from the cart.

* **Cart & Checkout:**

This feature stores the items added by a buyer and shows the unit price, quantity, total price of each items and the subtotal price of all the items added in the cart. A user can edit his address or payment method and check-out (i.e., confirm the order). Then the cart will be cleared.

* **Menu:**

This feature lets the user choose from different features like profile, order history, notifications, help-center, settings, logout.

* **Profile:**

This feature shows a user all his information and allows him to edit that information. A user can also choose to create a business id from this feature and use that to either manage his own shop or the shop he/she works in.

* **Buyer Order History:**

This feature enables a user to go through all his previous orders and get details regarding those. This feature also shows his total monthly expenditure and the category he/she spent his/her most on.

* **Toggle:**

This feature enables a user to toggle through his buyer profile and shop profile and use the app as a buyer or a seller according to his needs.

* **Business Info:**

If a user decides to start/manage his shop using his business id, he has to provide shop’s name, location, address and choose a shop category for his shop and a shop id will be assigned to his shop. A user can also use his business id to enlist himself as an employee of an existing shop.

* **Stock (View, Add, Edit):**

This feature enables a seller to check his product stocks based on different product categories and get an idea about which products he has to restock soon. This feature also stores information about the buying price of those items. A user can use this section to add or edit his stocks and also get a list of the products that are stockout.

* **Order List:**

This feature enables a seller to go through all his current orders. This list consists of three key features:

* **Pending Packaging:**

This feature shows the orders that are yet to be packaged.

* **Pending Payment:**

This feature shows the orders that are waiting to be paid for.

* **Ready To Dispatch:**

This feature shows the orders that are ready to be dispatched and all other formalities are done.

* **Shop Order Info:**

This feature enables a user to go through all the orders both current and previous made to his shop and get details regarding those. This feature also shows his total profit from each of the orders as well as the status of the orders (pending, completed or partially paid). A rating is also given with each order which is stored and shown in this feature and is then used to calculate total average rating of a shop.

* **Customer Info:**

This feature shows information about all the customers of a shop. A seller can see which customer has profited him the most from this feature and choose to provide that customer with a certain percentage of discounts. The total pending payments of each user can also be found using this feature.

* **Shop Profile:**

This feature shows all the information of a shop and lets the seller change information about his shop, manage his employees and even transfer the ownership of the shop.

* **Order History/Statistics:**

This feature shows all the previous orders of a shop and total monthly profit and also the most sold product of the month.

* **Settings:**

This feature allows a user to change the language of the app, his/ her password, enable or disable push notification and the sellers can make their shops visible or invisible according to their preferences. A user can also delete their account if they feel the need.

* **Logout:**

This feature allows a user to logout from the app.

**Table 01: Identifier and Priority for Software Requirements**

|  |  |  |
| --- | --- | --- |
| **#** | **Requirement** | **Priority** |
| R1 | Login | High |
| R2 | Registration | High |
| R3 | Location | High |
| R4 | Search | High |
| R5 | Category Block | High |
| R6 | OCR | High |
| R7 | Add to Cart | High |
| R8 | Cart & Checkout | High |
| R9 | Menu | Medium |
| R10 | Profile | High |
| R11 | Buyer Order History | Medium |
| R12 | Toggle | High |
| R13 | Business Info | High |
| R14 | Stock (View, Add, Edit) | High |
| R15 | Order List | High |
| R16 | Shop Order Info | High |
| R17 | Customer Info | High |
| R18 | Shop Profile | High |
| R19 | Order History/Statistics | Medium |
| R20 | Settings | Medium |
| R21 | Logout | Low |