Project Proposal

Presented By: Waleed El Alawi, Rubbia Pasha, Matheeshan Sivalingam

Project Idea

- The project idea we have decided to work on is an e-commerce website which will allows user to browse, shop and pay for an item they desire. We intend to design our website to facilitate the purchase of an assortment of products.

Framework/Tools

- This app will be developed using android studio. The user interface would be developed using layout XML while the functionality of the application would implemented using java. The backend of our app will use Firebase as it will provide our application with real time functionality.

Goals

The following goals have been identified for this project:

- Provides a platform for a user to browse for items

- Allow the user to add items to cart and place an order

- Send a notification validating the purchase made

Overview of Activities

Our application will consist of the following activities:

- Home screen

- Product information

- Login page

- Create an account page

- Cart

- Checkout

- Order summary

- User profile

Login Page

- The first page that the user will see

  when launching the application is the

  login page. From the login, the user

  should be able to use their credentials

  to login to the home page.

Login

Email

Password

Login

New user? Register now

Registration/Create an Account

- If the user has not created an account, they

  would be prompted to the register page.

- The user information will then be stored

  onto the user database in JSON format.

- Error prevention will implemented to ensure

  that the user enters the correct input.

Create Account

First Name

Last Name

Email

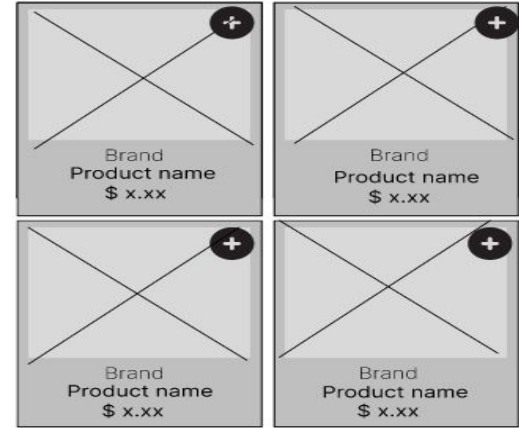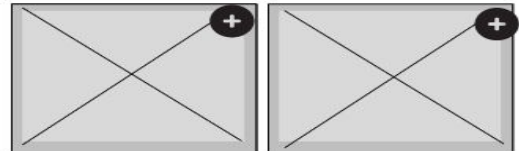Phone number

Password

Create account

Home Screen

- If the user has logged in successfully, they will be prompted to the home screen. The home screen will display products and listings the user can decide to put into their shopping cart.

- All information about each product should be stored in the product database in JSON format. The home screen should also include buttons that would redirect them to their profile as well the cart.
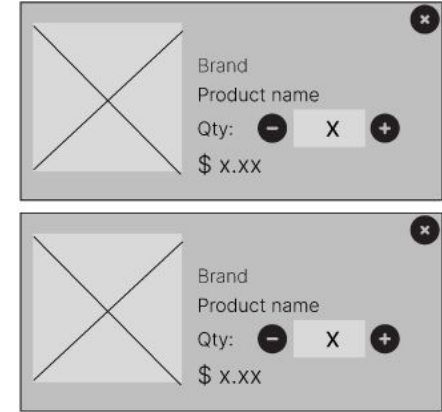
Product Information

- When the user clicks on a product, an activity should be generated to show more detailed information about the product. This mostly includes a description as well as additional images of the product. The user should also be able adjust the desired quantity and add the product to their cart.

Shopping Cart

- The cart page should provide the user an overview of their order.

- The user should be able to then proceed to the checkout page by pressing the checkout button.

Checkout

The checkout activity allows the user to enter their shipping and billing information. The interface for this activity should most be composed of textboxes that will allow the user to input the required information to be able to place an order. After inputting all the required data, the user can then place their order. The order information will be stored onto the user order database in JSON format. Error prevention will be implemented to validate the data. The required information includes the following:

- Shipping Address
  - Full name
  - Country
  - Address
  - City
  - Province/State
  - Postal code
- Billing Address
  - Full name
  - Country
  - Address
  - City
  - Province/State
  - Postal code
- Credit card information
  - First name
  - Last name
  - Card number
  - Expiration date
  - Postal code

Order Confirmation

- The order confirmation page appears after the user has placed an order. This activity will thank the user for placing an order as well as provide a summary of the order. A button should be implemented to take the user back to the home activity.

Profile

- The profile screen shows the user's information. It also displays the user's order history.