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Project 02: Ecommerce Application
CST 338 : 3rd Semester

Ecommerce Application

[Describe your application here. Note that any text enclosed in square brackets should be replaced with information about YOUR project. Please remove the brackets too.]

Github: https://github.com/JustinIsaac/Project02---Ecommerce-Application.git

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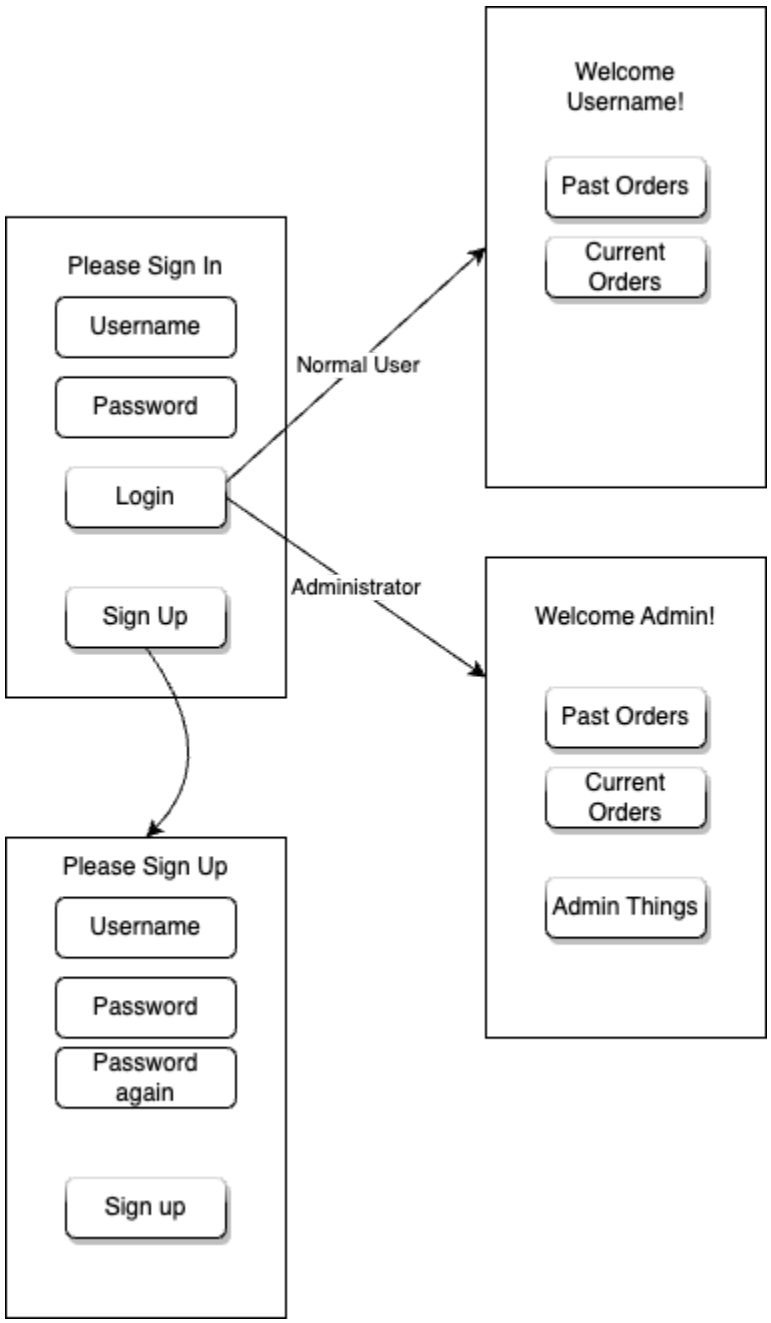
Initial Layout

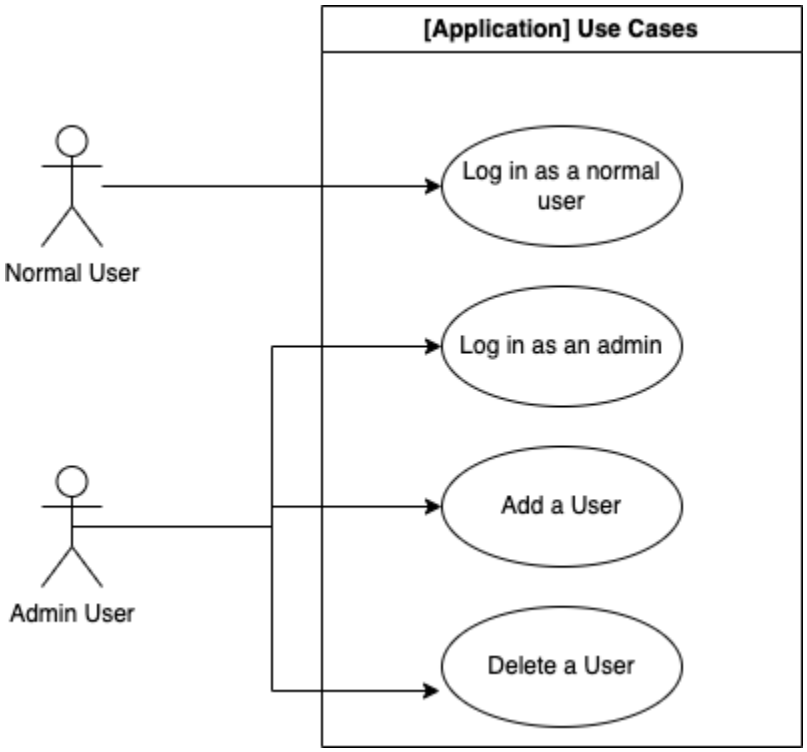
Include a layout similar to the one shown below. This can be created using screenshots from Android Studio, using Draw.Io, or even sketched out on paper (or a tablet if you are fortunate enough to have one).



Use Case Model

Insert your actor diagrams here. It should show the users and their roles and the use cases they complete. This does not need to be 100% comprehensive but I'd like to see at least 2 actors with three actions each.

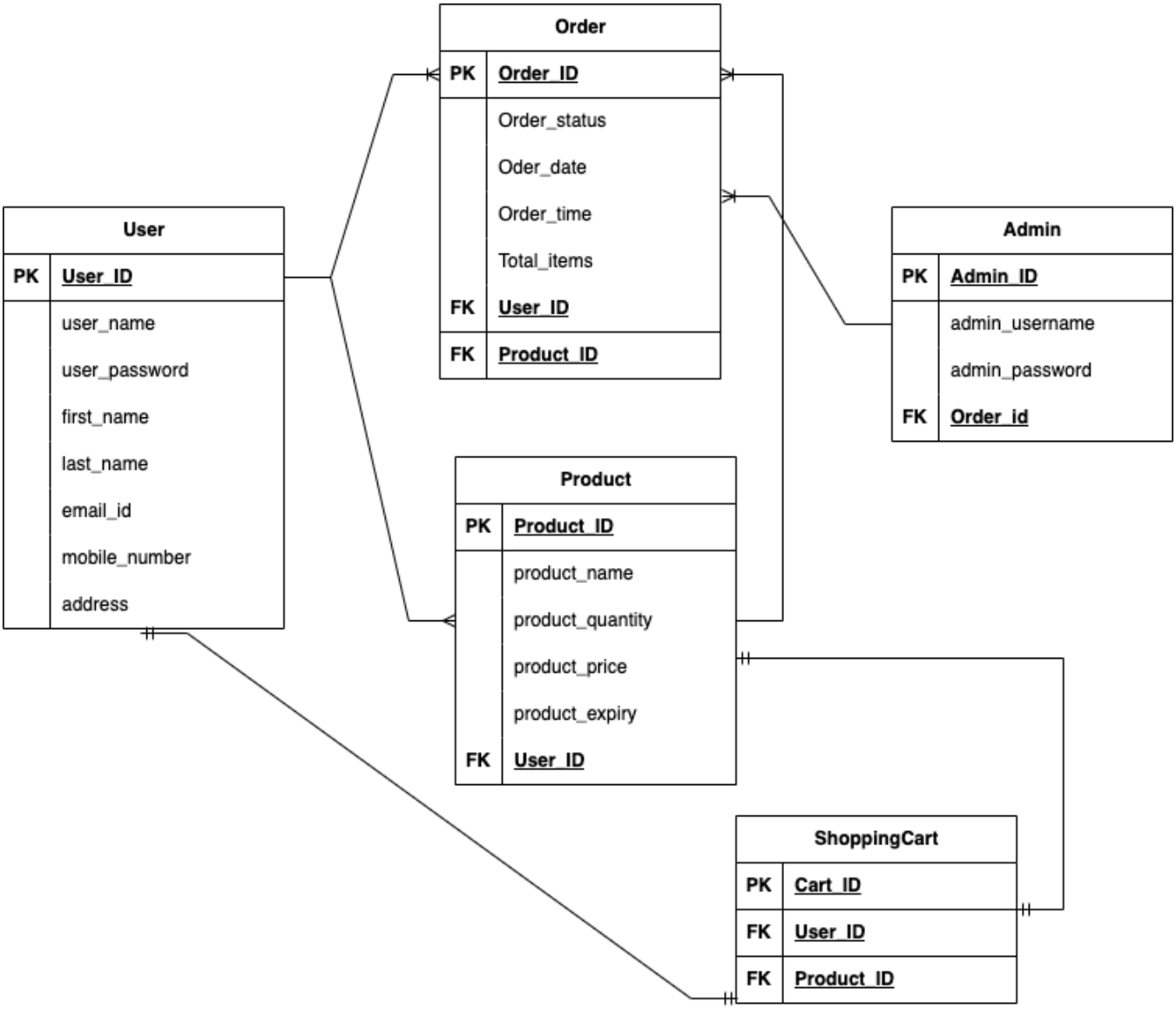
Case 1 : Login as a normie - actor1 ‘norm’
Case 2 : Login as an admin - admin
Case 3 : Add a user[admin]
Case 4 : Delete a user[admin]



Entity Relationship Diagram (ERD)

The assignment MUST use a database and must have at least three tables

[insert your own ERD here. Note that this will need]



Use Case 01: Predefined Users

1. Force quit the application[1]
2. Login as testuser1
3. Display the username 'testuser1'
4. Logout
5. Login as admin2
6. Display the username 'admin2'
7. Display something specific to the admin user.
    a. Something like an admin button or a link to edit items.

Login as Normal User

{User opens the application}

1. Use case begins when user starts the application
2. User is presented with a login screen

{User enters credentials}

3. User types in username
4. Password
5. User clicks the login button

{Click login button}

6. user name and password are verified

{Start landing page activity}

7. User is redirected to the landing page where their information is displayed
8. Use case ends

[1] How to force quit an application in Android:
https://www.digitaltrends.com/mobile/how-to-force-close-apps-android/

Login as an Admin user (Alternate Flow)
Start at **{User enters credentials}**

1. User types in admin username
2. User types in admin Password

   {Click login button}

3. User clicks the login button
4. user name and password are verified
   {Start landing page activity}
5. Redirect to the landing page where their information is displayed
6. Verify admin status
7. Display admin controls
8. Use case ends

Login as A Normal User Alternate : bad password
Start at **{User enters credentials}**

1. User types in an incorrect username
2. User types in an incorrect password(correct or otherwise)
   {verify user information}
3. Username or password is incorrect
4. Highlight the incorrect field
5. Display a message indicating that one or both fields are incorrect

This use case passes if all of these conditions are met. It fails otherwise.

Use Case 02: Persistence

1. Add an item to the database
2. Force quit the application[2]
3. Show the item added in step 1 is still in the database
4. Change an item in the database
5. Force quit the application
6. Show the item modifications from step 4 have been saved

[2] How to force quit an application in Android:
https://www.digitaltrends.com/mobile/how-to-force-close-apps-android/

Use Case 03: Add a user

1. Use Case description

Alternate flow : user already exists
Alternate flow : username doesn’t meet criteria
Alternate flow : password doesn’t meet criteria

Use Case 04: Delete a user

Use Case description

1. Admin initiates the deletion of the user
2. Admin checks if any ongoing or future order is pending
    a. If no order is pending proceed for deletion
3. Admin then proceeds to delete the user
    a. A confirmation message is displayed
4. Use case ends

Use Case 05: Browse Products

Use Case description

1. Normal user logins and after authentication the homepage is visible
2. The user can then browse all the products available in the app
3. Can filter out what product does he/she is looking for
4. Can filter out the brands, price range,
5. Then add the items to the cart/wishlist
6. Use case ends

Use Case 06: Add to Cart

[Use Case description]

1. After browsing through the products the user will add the items to the cart
2. The user will select the number of quantity the user wants
3. Want to continue to the checkout page
    a. Or remove some item from the cart
4. Proceed to Checkout
5. Use case ends

Use Case 07: Checkout

Use Case description

1. The user will give his mail id and shipping address
2. The user will apply any coupon codes if applicable
3. The user will check the delivery date and time
4. The user will give his billing information
5. The user authenticate the payment
    a. After payment passes, the order confirmation will be sent via email.
6. Use case ends.

Use Case 08 : Order tracking

Use Case description

1. Admin will check the order status of the user
2. User can track his/her order
3. Use case ends