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Project 02: Android Project
CST 338 - Section 40 - Fall 2023

TrailBlitz

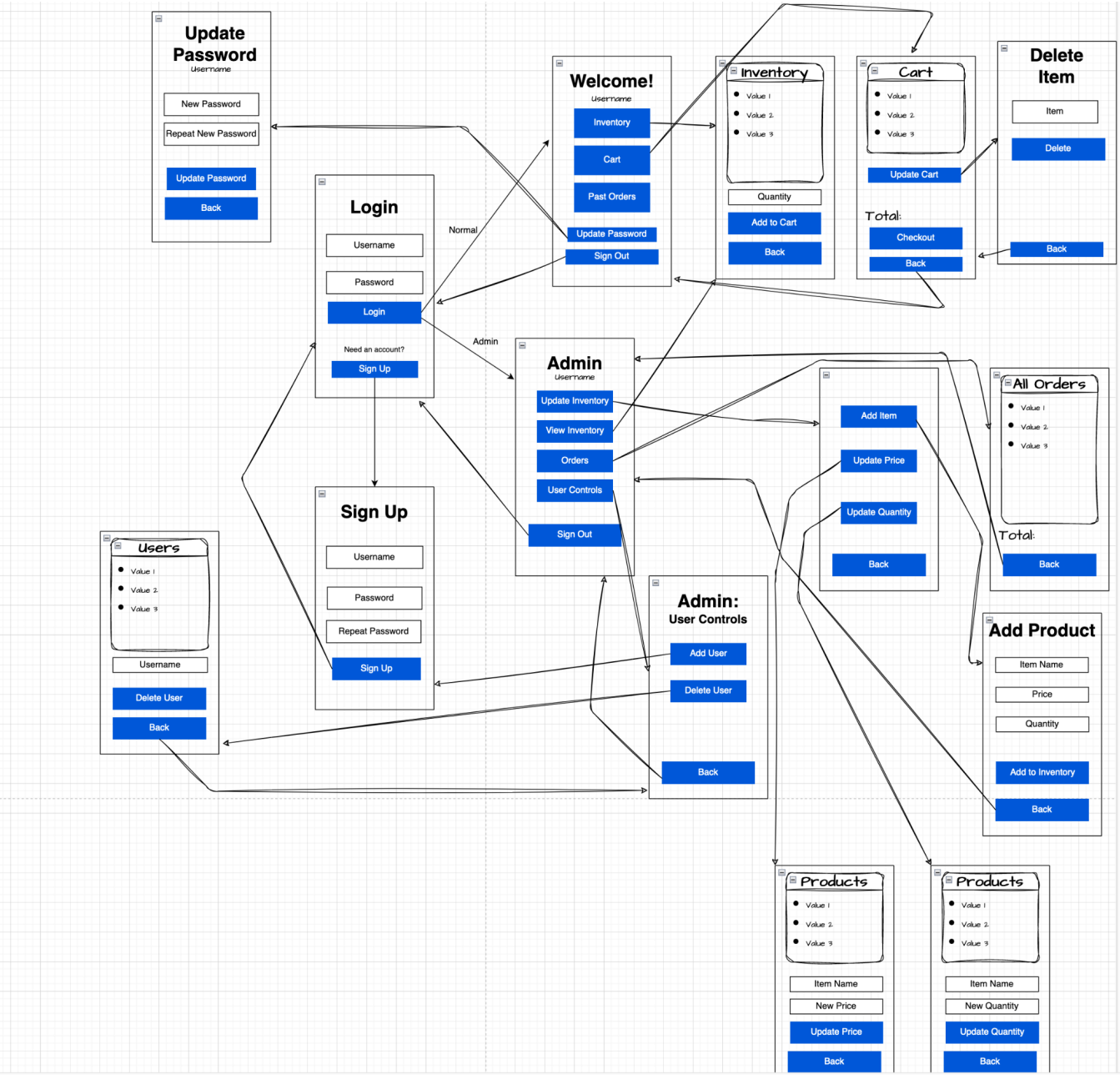
This is an app where outdoor enthusiasts can purchase gear for a variety of outdoor activities.

Github: https://github.com/tfrendl/TrailBlitz

Table of contents

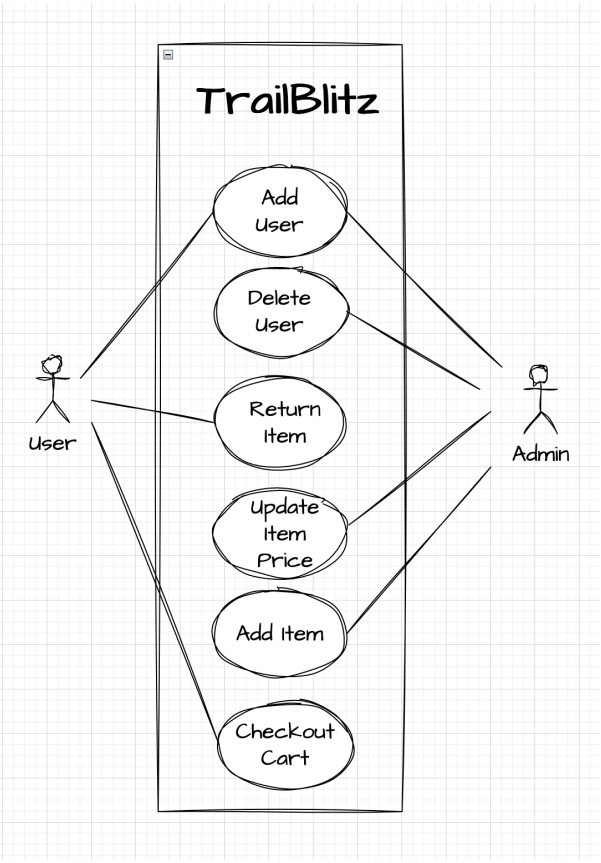
Initial Layout

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

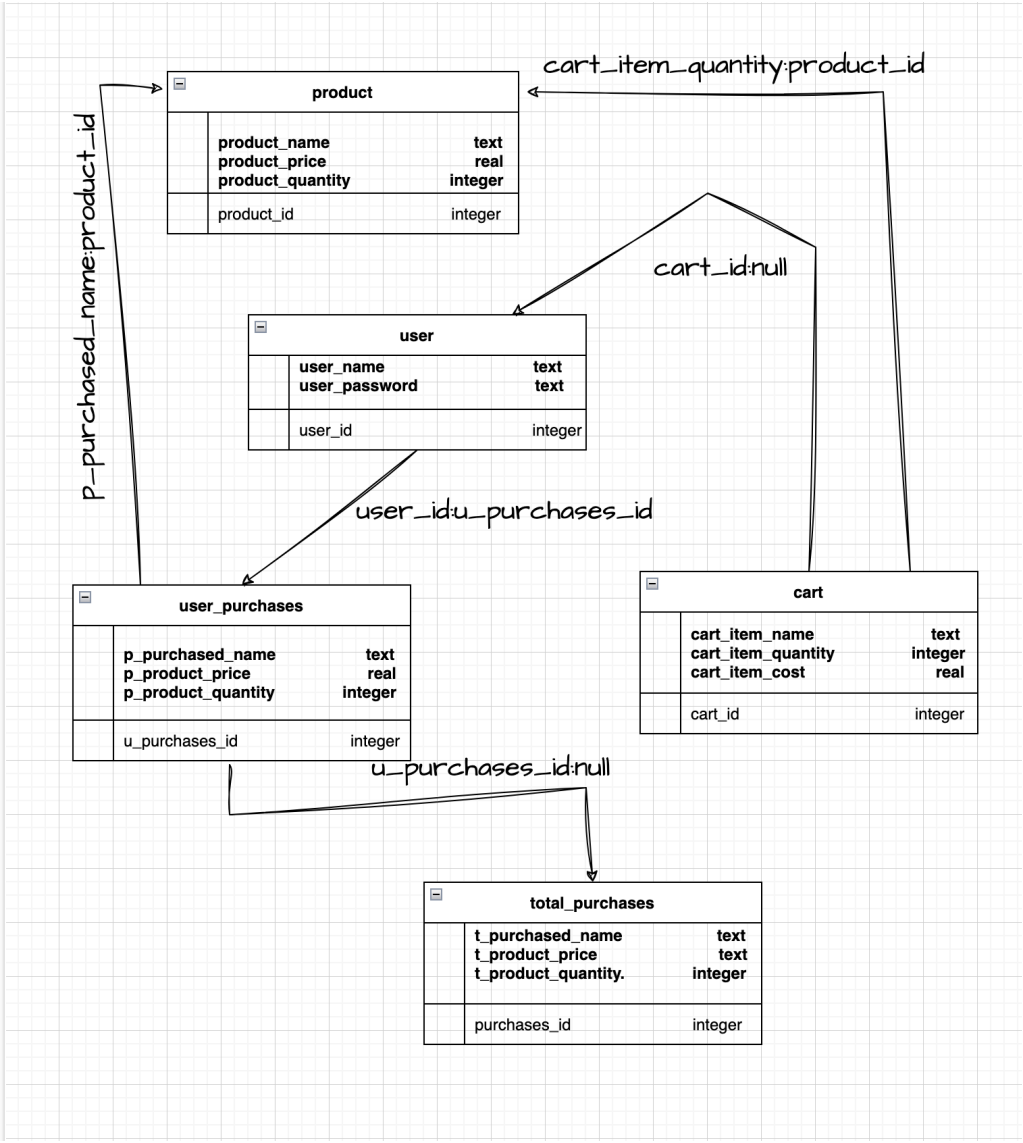
Insert your actor diagrams here. It should show the users and their roles and the use cases they complete. This does not need to be 100% comprehensive but I'd like to see at least 2 actors with three actions each.



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.

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

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

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

{By Admin}

1. Login as admin
2. Select user controls
3. Select Add User
4. Enter Username: newUser
5. Enter password: 123
6. Log out admin
7. Login with new user credentials
8. Display new user name
9. Display user portal

{By User}

1. Click sign up
2. Enter username: newUser1
3. Enter password: 123
4. Press sign up
5. Login with new user credentials
6. Display username
7. Display user portal
8. Use case ends

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

Use Case 04: Delete a user

1. Login as admin
2. Select user controls
3. Select Delete User
4. Type in username from list of users
5. Select delete user
6. Verify username is no longer on list of users
7. Sign out of admin
8. Verify login for user does not work
9. Use case ends

Alternate: {Non existent user}
{admin types in a username that does not exist}
Starting at 4 from {delete a user}
4. Admin enters username that does not exist
5. The application displays the message “User does not exist”
6. Use case ends

Use Case 05: User checkout cart

1. User login
2. Select Cart
3. Display items in the cart
4. Display total price
5. Select checkout
6. Select back
7. Select past orders
8. Display purchase
9. Use case ends

Use Case 06: User add item to cart

1. User login
2. Select inventory
3. Display inventory
4. Select item to purchase
5. Select quantity
6. Select add to cart
7. Select back
8. Select cart
9. Cart displays item added
10. Use case ends

{Alternate: invalid item}
{User enters item that does not exist in inventory}
Starting at 3 from user add item to cart

4. Select item to purchase that does not exist in inventory
5. Select quantity
6. Select add to cart
7. Application will display “Unkown Item”
8. Use case ends

{Alternate: invalid quantity}
{User enters quantity that is more than is in inventory}
Starting at 4 from user add item to cart
5. Select quantity larger than what is in inventory
6. Select add to cart
7. Application will display “Not enough in inventory!”
8. Use case ends

Use Case 07: Admin add item to inventory

1. Admin login
2. Select update inventory
3. Select add item
4. Enter item name
5. Enter price
6. Enter quantity
7. Select add to inventory
8. Select back
9. Select view inventory
10. Display inventory, including new item with quantity
11. Use case ends

Use Case 08: Admin update price of item

1. Admin login
2. Select update inventory
3. Select update price
4. Display inventory
5. Enter item name
6. Enter new price
7. Select update item
8. Select back
9. Select view inventory
10. Display updated price for item
11. Use case ends

Use Case 09: User return item

1. User login
2. Select Past Orders
3. Display all items purchased
4. Enter item name
5. Select return
6. Display money returned
7. Display past orders with returned item no longer there
8. Use case ends

{Alternate: User enters invalid item}
User enters an item that they have not purchased
Starting at 3 from display all items purchased

4. Enter item not on orders list
5. Select return
6. Application display “Invalid Item”
7. Use case ends

Use Case 10: Admin update quantity of item

12. Admin login
13. Select update inventory
14. Select update quantity
15. Display inventory
16. Enter item name
17. Enter new quantity
18. Select update item
19. Select back
20. Select view inventory
21. Display updated quantity for item
22. Use case ends

Use Case 11: User update password

1. User login
2. Select update password
3. Enter new password
4. Enter repeat new password
5. Select update password
6. Select back
7. Select sign out
8. Sign in with new password
9. Use case ends

Use Case 12: User delete items from cart

1. User login
2. Select Cart
3. Select update cart
4. Enter item
5. Select Delete
6. Select back
7. Show cart with item no longer there
8. Use case ends

{Alternate: item invalid}
{User enters item that is not in the cart}
Starting at 3 from user delete items from cart
4. Enter item not in cart
5. Select Delete
6. Application displays “Item not in cart”
7. Use case ends