CAPSTONE PROJECT

E-COMMERCE MOBILE APP WITH INVENTORY MANAGEMENT AND ORDER TRACKING WIPRO IOS BATCH

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Problem Statement:

You are tasked with building a comprehensive ecommerce mobile app for a fictional retail company called "WiproTechWear". The app should allow users to browse and purchase techrelated products, track their orders, and manage their account information.

Requirements:

Frontend:

- **Web App:** Build using React, ensuring a user-friendly experience for browsing products, adding to the cart, and checking out.
- **Mobile App:** Develop for iOS using Swift and Swift UI, providing a native experience for iOS users.
- **User Interface Design:** Implement design principles for an intuitive user interface and clear navigation flow, similar to Figma. Ensure that each screen follows a consistent user journey.

Admin should be able to:

- > Login to the web application with the admin credentials.
- Manage the products stock
- Manage the orders placed by the users

User should be able to:

- > If the user is new, should be able to register.
- > If already exists, he should be able to login
- > Select the products and add them to cart
- Place order with the products added to the cart
- > Track the order status

Web Application:

SpringbootApp - Backend:

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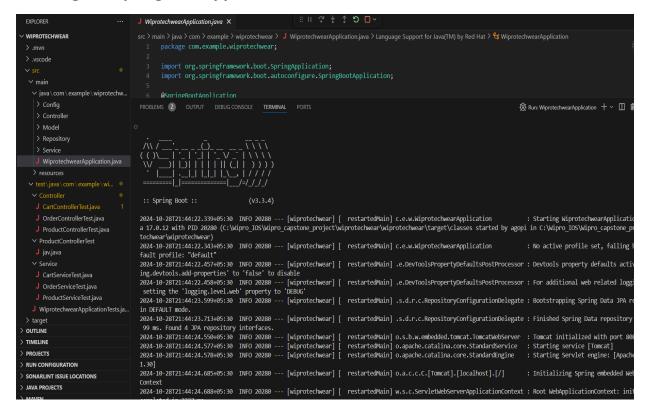
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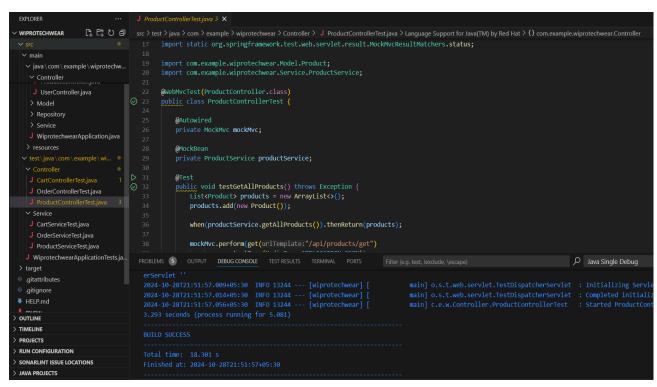
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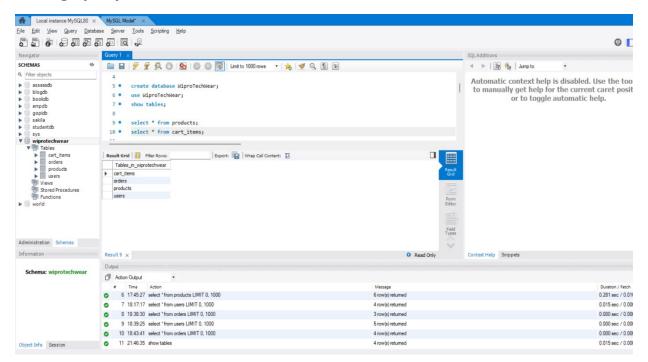
Running the Springboot application:



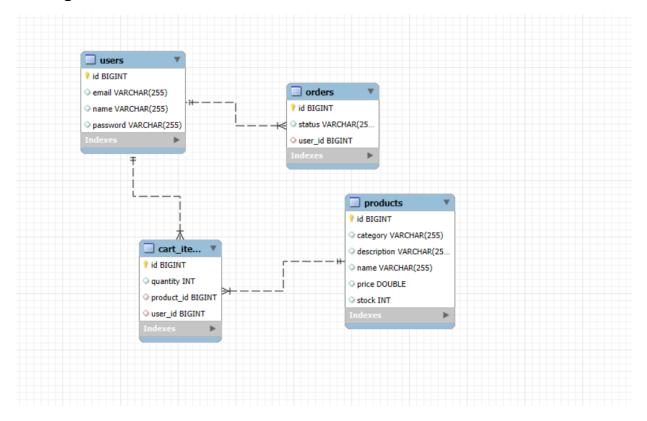
Test case for Springboot Application:



Setting up MySQL:



ER diagram:



Frontend Application - ReactJS:

Test cases - ReactJS:

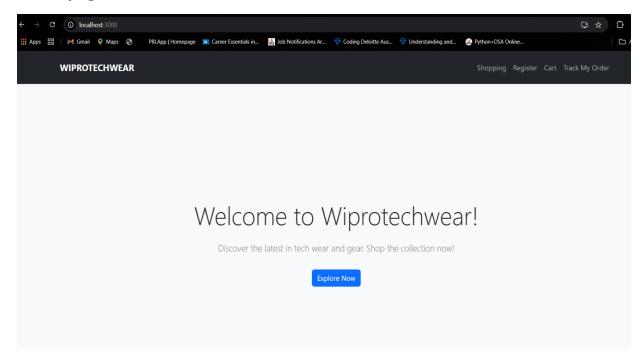
```
C
       EXPLORER
      ∨ WIPRO_TECH

∨ web_login

                                              6 describe('App Component', () => {
7 test('renders HomePage and navigates to CategoryPage', () => {
8 render(
                                                         JS TrackOrder.is
•
                                                           expect(screen.getByText(/Featured Products/i)).toBeInTheDocument();
                                                          const electronicsLink = screen.getByText(/Electronics/i);
fireEvent.click(electronicsLink);
0
                                                            expect(screen.getByText(/Electronics/i)).toBeInTheDocument();
                                                                                                                                                                                  ☑ node - web_login + ∨ Ⅲ 葡
         JS App.test.js
          # index.css
                                            You can now view web_login in the browser.
                                              Local: http://localhost:3000
On Your Network: http://192.168.238.106:3000
         JS reportWebVitals.is
         JS setupTests.js
                                    M Note that the development build is not optimized.

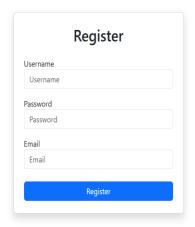
M To create a production build, use npm run build.
      > OUTLINE
                                             webpack compiled successfully
      > TIMELINE
```

Home page:



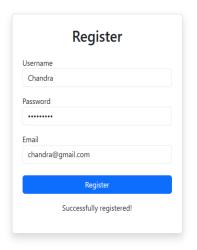
Register page:



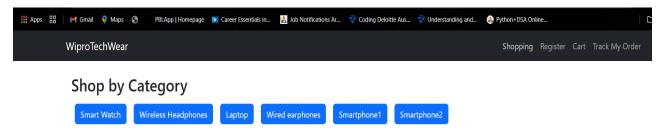


Successful registration of user:

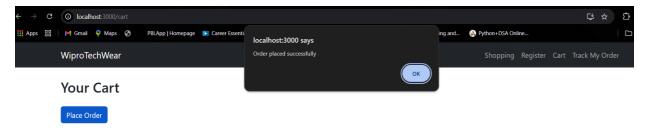




Shopping Page:



Placing order from cart:



Mobile Applocation:

SwiftUI view - LoginView:

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LoginView
                                                                    WiproTechWearApp
                                                                                      WiproTech\
                              🔼 WiproTechWear ) 🚞 WiproTechWear ) 🔌 ContentView ) 🔁 body
∨ MiproTechWear

√ ■ WiproTechWear

                                      ContentView.swift
                                 3 //
                                      WiproTechWear
     4 11
     ContentView
                                      Created by User on 28/10/24.
                                 5 //
    Assets
                                 6 //
   > Preview Content
                                 8 import SwiftUI
     ▲ LoginView

▲ HomeView
                                10 struct ContentView: View {

▲ ShoppingView

                                      @State private var isLoggedIn = false
                                12
                                      @State private var userId: Int? = nil

▲ CartView
                                13
     ▲ TrackOrderView
                                      var body: some View {
                                14
     → ProfileView
                                15
                                         NavigationView {
     16
                                             if isLoggedIn {
                                                HomeView(isLoggedIn: $isLoggedIn)

∨ ■ WiproTechWearTests

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	★ WiproTechWearTests

                                19
                                                LoginView(isLoggedIn: $isLoggedIn, userId: $userId)

→ ■ WiproTechWearUITests

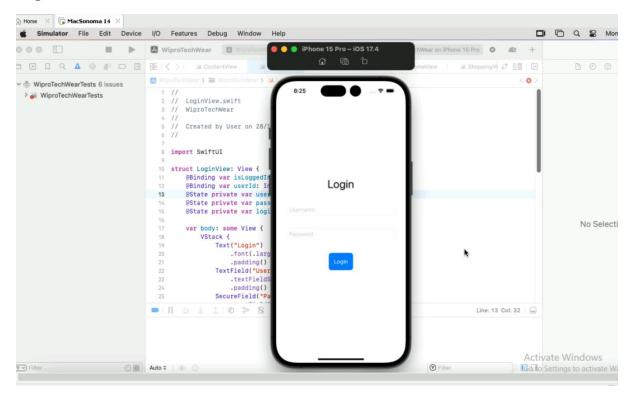
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                                                               I

★ WiproTechWearUITests

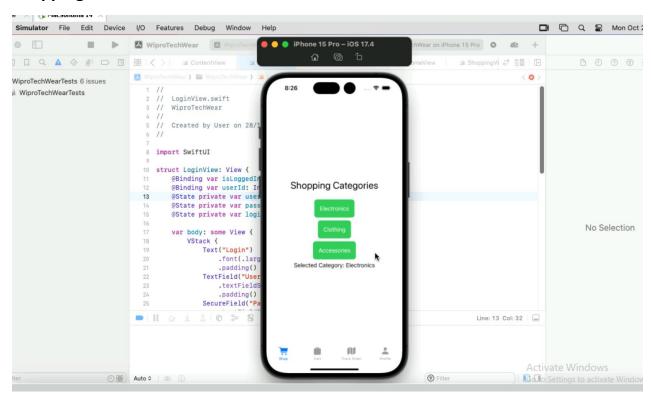
→ WiproTechWe...sLaunchTests

                                23 }
                                25
                                26
```

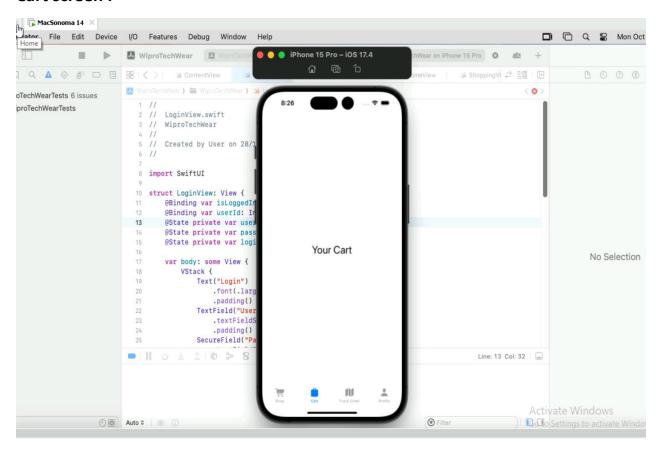
Login screen:



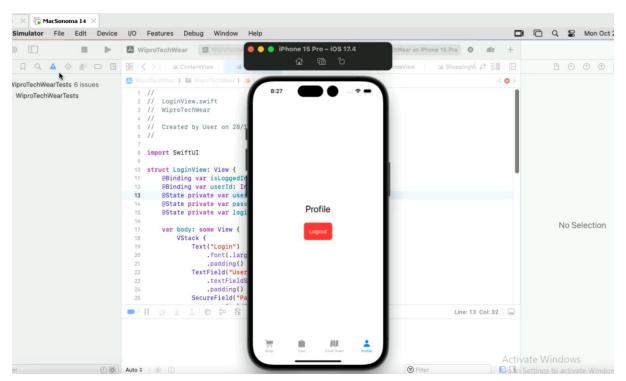
Shopping screen:



Cart screen:



Logout screen:



- Register application is developed in the web application
- Login application is developed in the mobiles application
- In mobile application admin pages will not be there.
- All others features like selecting the products, adding to the cart and placing order etc are common for both mobile and web applications

I implemented most of the use cases and along with the test cases........

THANK YOU