

ĐẠI HỌC QUỐC GIA THÀNH PHỐ HỒ CHÍ MINH
TRƯỜNG ĐẠI HỌC CÔNG NGHỆ THÔNG TIN
KHOA KHOA HỌC VÀ KỸ THUẬT THÔNG TIN



BÁO CÁO THỰC HÀNH
CÔNG NGHỆ LẬP TRÌNH ĐA NỀN TẢNG
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NHẬN XÉT CỦA GIÁO VIÊN HƯỚNG DẪN

[illegible]

....., ngày.....tháng.....năm 20...

Người nhận xét

(Ký tên và ghi rõ họ tên)

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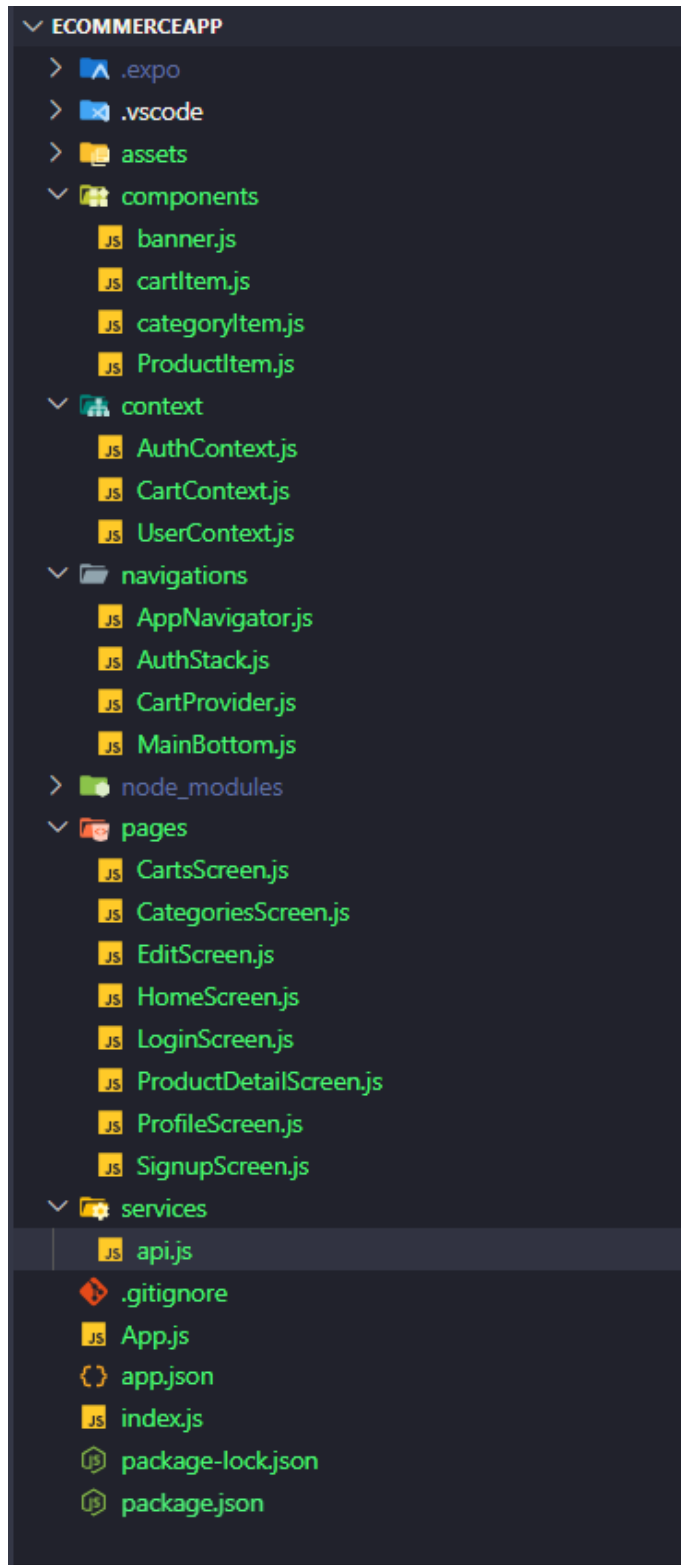
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BÀI LÀM

Bài 1: Mobile E-commerce App

❖ Cấu trúc các folder/file của dự án:



❖ Nội dung code

- Folder “services”
 - api.js

```

1  import axios from "axios";
2
3  const API_URL = "https://fakestoreapi.com";
4  // Thạch Minh Luân - 22520827
5
6  export const fetchAllProducts = async () => {
7    const response = await axios.get(`${API_URL}/products`);
8    return response.data;
9  };
10
11 export const fetchCategories = async () => {
12   const response = await axios.get(`${API_URL}/products/categories`);
13   return ["All", ...response.data];
14 };
15
16 export const fetchProductsByCategory = async (category) => {
17   const response = await axios.get(`${API_URL}/products/category/${category}`);
18   return response.data;
19 };
20
21 export const fetchProductById = async (id) => {
22   console.log("pro: " + id);
23   const response = await axios.get(`${API_URL}/products/${id}`);
24   return response.data;
25 };
26
27 export const fetchUserById = async (id) => {
28   const response = await axios.get(`${API_URL}/users/${id}`);
29   return response.data;
30 };
31 // Thạch Minh Luân - 22520827
32 export const fetchCartById = async (id) => {
33   console.log("cart: " + id);
34   const response = await axios.get(`${API_URL}/carts/user/${id}`);
35   return response.data;
36 };
37
38 export const updateCartById = async (cartId, userId, date, products) => {
39   const response = await axios.put(`${API_URL}/carts/${cartId}`, {
40     userId,
41     date,
42     products,
43   });
44   console.log("Da cap nha cart: " + response.data);
45   return response.data;
46 };
47
48 export const deleteCartById = async (cartId) => {
49   const response = await axios.delete(`${API_URL}/carts/${cartId}`);
50   console.log("Da xoa cart: " + response.data);
51   return response.data;
52 };

```

- Folder “pages”
 - LoginScreen.js

```

pages > LoginScreen.js > LoginScreen
1  import React, { useContext, useState } from "react";
2  import { View, Text, StyleSheet, Image, TouchableOpacity } from "react-native";
3  import { TextInput } from "react-native-gesture-handler";
4  import { AuthContext } from "../context/AuthContext";
5
6  const LoginScreen = ({ navigation }) => {
7    const [username, setUsername] = useState(""); //johnd
8    const [password, setPassword] = useState(""); //m38rmF$
9    const { login } = useContext(AuthContext);
10   // Thạch Minh Luân - 22520827
11   const handleLogin = () => {
12     login(username, password);
13   };
14
15   return (
16     <View style={styles.viewCha}>
17       <View>
18         <Image
19           style={styles.logo}
20           source={{
21             uri: "https://www.scorchsoft.com/public/capabilities/head/react-native-logo-square.webp",
22           }}
23         />
24         <Text style={styles.title}>Welcome</Text>
25       </View>
26       <View style={styles.container}>
27         <View style={styles.viewInput}>
28           <Image
29             style={styles.icon}
30             source={{
31               uri: "https://cdn-icons-png.flaticon.com/256/1077/1077063.png",
32             }}
33           />
34           <TextInput
35             style={styles.input}
36             value={username}
37             onChangeText={setUsername}
38             placeholder="Username"
39             placeholderTextColor="#666"
40           />
41         </View>
42         { /* Thạch Minh Luân - 22520827 */ }
43         <View style={styles.viewInput}>
44           <Image
45             style={styles.icon}
46             source={{
47               uri: "https://cdn-icons-png.flaticon.com/128/9512/9512572.png",
48             }}
49           />
50           <TextInput
51             style={styles.input}
52             value={password}

```

```

pages > LoginScreen.js > LoginScreen
6   const LoginScreen = ({ navigation }) => {
49     />
50     <TextInput
51       style={styles.input}
52       value={password}
53       onChangeText={setPassword}
54       placeholder="Password"
55       placeholderTextColor={"#666"}
56       secureTextEntry={true}
57     />
58   </View>
59   <Text style={styles.forgotpw}>Forgot password?</Text>
60   /*  Thạch Minh Luân - 22520827 */
61   <TouchableOpacity style={styles.btnLogin} onPress={() => handleLogin()}>
62     <Text style={styles.txtLogin}>LOG IN</Text>
63   </TouchableOpacity>
64
65   /* dang nhap bang pthuc khac */
66   <Text style={styles.loginwith}>Or login with</Text>
67
68   <View style={styles.viewLoginWith}>
69     <Image
70       style={styles.iconLoginWith}
71       source={{
72         uri: "https://cdn-icons-png.flaticon.com/128/5968/5968764.png",
73       }}
74     />
75     <Image
76       style={styles.iconLoginWith}
77       source={{
78         uri: "https://cdn-icons-png.flaticon.com/128/281/281764.png",
79       }}
80     />
81   </View>
82
83   <View style={styles.viewNoAcc}>
84     <Text style={styles.txtNoAcc}>Don't have account?</Text>
85     <Text
86       style={styles.signup}
87       onPress={() => navigation.navigate("Signup")}
88     >
89       Sign up here!
90     </Text>
91   </View>
92 </View>
93 </View>
94   );
95 };
96 {
97   /*  Thạch Minh Luân - 22520827 */
98 }

```



```

pages > LoginScreen.js > styles > btnLogin
96  {
97    /*  Thạch Minh Luân - 22520827 */
98  }
99  const styles = StyleSheet.create({
100    viewCha: {
101      paddingTop: 100,
102    },
103    container: {
104      alignItems: "center",
105    },
106    logo: {
107      height: 100,
108      width: 100,
109      borderRadius: 50,
110      alignSelf: "center",
111    },
112    title: {
113      fontSize: 28,
114      fontWeight: "bold",
115      alignSelf: "center",
116    },
117    viewInput: {
118      borderWidth: 1,
119      height: 40,
120      width: "70%",
121      margin: 12,
122      paddingHorizontal: 10,
123      flexDirection: "row",
124      alignItems: "center",
125      borderRadius: 10,
126    },
127    icon: {
128      height: 24,
129      width: 24,
130    },
131    input: {
132      marginStart: 15,
133      height: "100%",
134      width: "85%",
135    },
136    forgotpw: {
137      width: "auto",
138      alignSelf: "flex-end",
139      marginEnd: 70,
140      marginBottom: 15,
141      color: "red",
142    },
143    btnLogin: {
144      backgroundColor: "orange",
145      width: "70%",
146      height: 40,
147      borderRadius: 5,

```

```

pages > LoginScreen.js > styles > btnLogin
99   const styles = StyleSheet.create({
143     btnLogin: {
144       backgroundColor: "orange",
145       width: "70%",
146       height: 40,
147       borderRadius: 5,
148       alignSelf: "center",
149     },
150     // Thạch Minh Luân - 22520827
151     txtLogin: {
152       fontSize: 30,
153       fontWeight: "bold",
154       alignSelf: "center",
155       color: "white",
156     },
157     loginwith: {
158       alignSelf: "center",
159       marginTop: 15,
160       fontSize: 20,
161       fontWeight: "bold",
162     },
163     iconLoginWith: {
164       width: 50,
165       height: 50,
166       alignSelf: "center",
167       marginHorizontal: 15,
168     },
169     viewLoginWith: {
170       width: "auto",
171       height: 50,
172       flexDirection: "row",
173       alignItems: "center",
174       marginVertical: 15,
175     },
176     viewNoAcc: {
177       flexDirection: "row",
178       alignItems: "center",
179     },
180     txtNoAcc: {
181       fontSize: 15,
182     },
183     signup: {
184       width: "auto",
185       marginStart: 5,
186       fontSize: 17,
187       fontWeight: "bold",
188       color: "blue",
189     },
190   });
191
192   export default LoginScreen;
193

```

○ SignupScreen.js

```

pages > SignupScreen.js > SignupScreen
1  import {
2    View,
3    TextInput,
4    StyleSheet,
5    Image,
6    Text,
7    TouchableOpacity,
8  } from "react-native";
9  {
10   /*  Thạch Minh Luân - 22520827 */
11 }
12 const SignupScreen = ({ navigation }) => {
13   return (
14     <View style={styles.viewCha}>
15       <View>
16         <Image
17           style={styles.logo}
18           source={{
19             uri: "https://www.scorchsoft.com/public/capabilities/head/react-native-logo-square.webp",
20           }}
21         />
22         <Text style={styles.title}>Create New Account</Text>
23       </View>
24       <View style={styles.container}>
25         <View style={styles.viewInput}>
26           <Image
27             style={styles.icon}
28             source={{
29               uri: "https://cdn-icons-png.flaticon.com/128/1077/1077063.png",
30             }}
31           />
32           <TextInput
33             style={styles.input}
34             placeholder="Enter username"
35             placeholderTextColor={"#666"}
36           />
37         </View>
38         { /*  Thạch Minh Luân - 22520827 */ }
39         <View style={styles.viewInput}>
40           <Image
41             style={styles.icon}
42             source={{
43               uri: "https://cdn-icons-png.flaticon.com/128/542/542638.png",
44             }}
45           />
46           <TextInput
47             style={styles.input}
48             placeholder="Enter email"
49             placeholderTextColor={"#666"}
50           />
51         </View>
52

```

```

pages > SignupScreen.js > SignupScreen
12  const SignupScreen = ({ navigation }) => {
51      </View>
52
53      <View style={styles.viewInput}>
54          <Image
55              style={styles.icon}
56              source={{
57                  uri: "https://cdn-icons-png.flaticon.com/128/9512/9512572.png",
58              }}
59          />
60          <TextInput
61              style={styles.input}
62              placeholder="Enter password"
63              placeholderTextColor={"#666"}
64              secureTextEntry={true}
65          />
66      </View>
67      { /* Thạc Minh Luân - 22520827 */ }
68      <View style={styles.viewInput}>
69          <Image
70              style={styles.icon}
71              source={{
72                  uri: "https://cdn-icons-png.flaticon.com/128/9512/9512572.png",
73              }}
74          />
75          <TextInput
76              style={styles.input}
77              placeholder="Confirm password"
78              placeholderTextColor={"#666"}
79              secureTextEntry={true}
80          />
81      </View>
82
83      <TouchableOpacity style={styles.btnCreate}>
84          <Text style={styles.txtCreate}>CREATE</Text>
85      </TouchableOpacity>
86
87      <View style={styles.viewHaveAcc}>
88          <Text style={styles.txtHaveAcc}>Already have an account</Text>
89          <Text
90              style={styles.login}
91              onPress={() => navigation.navigate("Login")}
92          >
93              Login now!
94          </Text>
95      </View>
96  </View>
97  </View>
98  );
99  };
100

```

```

pages > SignupScreen.js > styles > icon
101 {
102   /*  Thạch Minh Luân - 22520827 */
103 }
104 const styles = StyleSheet.create({
105   viewCha: {
106     paddingTop: 100,
107   },
108   container: {
109     alignItems: "center",
110   },
111   logo: {
112     height: 100,
113     width: 100,
114     borderRadius: 50,
115     alignSelf: "center",
116   },
117   title: {
118     fontSize: 28,
119     fontWeight: "bold",
120     alignSelf: "center",
121   },
122   viewInput: {
123     borderWidth: 1,
124     height: 40,
125     width: "70%",
126     margin: 12,
127     paddingHorizontal: 10,
128     flexDirection: "row",
129     alignItems: "center",
130     borderRadius: 10,
131   },
132   icon: {
133     height: 24,
134     width: 24,
135   },
136   input: {
137     marginStart: 15,
138     width: "85%",
139   },
140   btnCreate: {
141     backgroundColor: "orange",
142     width: "70%",
143     height: 40,
144     borderRadius: 5,
145     alignSelf: "center",
146     marginVertical: 15,
147   },
148   txtCreate: {
149     fontSize: 30,
150     fontWeight: "bold",
151     alignSelf: "center",
152     color: "white",
153   },
154   viewHaveAcc: {
155     flexDirection: "row",
156     alignItems: "center",
157   },
158   txtHaveAcc: {
159     fontSize: 20,
160   },

```

```
160     },
161     login: {
162       width: "auto",
163       marginStart: 5,
164       fontSize: 20,
165       fontWeight: "bold",
166       color: "blue",
167     },
168   });
169
170   export default SignupScreen;
171
```

○ HomeScreen.js

```

pages > HomeScreen.js > HomeScreen
1  import React, { useEffect, useState } from "react";
2  import {
3    View,
4    FlatList,
5    Text,
6    ScrollView,
7    StyleSheet,
8    ActivityIndicator,
9  } from "react-native";
10 import { fetchAllProducts } from "../services/api";
11 import ProductItem from "../components/ProductItem";
12 import Banner from "../components/banner";
13 // Thạch Minh Luân - 22520827
14 const HomeScreen = ({ navigation }) => {
15   const [productsHot, setProductsHot] = useState([]);
16   const [productsNew, setProductsNew] = useState([]);
17   const [loading, setLoading] = useState(true);
18
19   useEffect(() => {
20     const loadProducts = async () => {
21       const data = await fetchAllProducts();
22       const productHot = data.filter((product) => product.id <= 10);
23       const productNew = data.filter((product) => product.id > 10);
24       setProductsHot(productHot);
25       setProductsNew(productNew);
26       setLoading(false);
27     };
28     loadProducts();
29   }, []);
30
31   if (loading) {
32     return (
33       <View style={styles.loaderContainer}>
34         <ActivityIndicator size="large" color="blue" />
35       </View>
36     );
37   }
38   // Thạch Minh Luân - 22520827
39   return (
40     <View>
41       <ScrollView style={styles.container}>
42         <Text style={styles.khauhieu}>KHÔNG MUA EM THÌ MUA AI?</Text>
43         <Banner />
44
45         <View style={styles.containerChild}>
46           <Text style={styles.txtMuc}>Hot Deals 🔥</Text>
47           <FlatList
48             data={productsHot}
49             numColumns={2}
50             keyExtractor={(item) => item.id}
51             scrollEnabled={false}
52             renderItem={({ item }) => (

```

```

pages > HomeScreen.js > HomeScreen
14  const HomeScreen = ({ navigation }) => {
15      scrollEnabled={false}
16      renderItem={({ item }) => (
17          <ProductItem
18              product={item}
19              onPress={() =>
20                  navigation.navigate("ProductDetail", { productId: item.id })
21              }
22          />
23      )}
24  />
25  </View>
26
27  <View style={styles.containerChild}>
28      <Text style={styles.txtMuc}>New Arrivals</Text>
29      <FlatList
30          data={productsNew}
31          numColumns={2}
32          keyExtractor={(item) => item.id}
33          scrollEnabled={false}
34          renderItem={({ item }) => (
35              <ProductItem
36                  product={item}
37                  onPress={() =>
38                      navigation.navigate("ProductDetail", { productId: item.id })
39                  }
40              />
41          )}
42      />
43  </View>
44  </ScrollView>
45  </View>
46  );
47  };
48  // Thạch Minh Luân - 22520827
49  const styles = StyleSheet.create({
50      container: {
51          paddingBottom: "10%",
52      },
53      containerChild: {
54          padding: 5,
55      },
56      txtMuc: {
57          fontSize: 30,
58          fontWeight: "bold",
59          paddingLeft: 10,
60      },
61      loaderContainer: {
62          justifyContent: "center",
63          height: "100%",
64      },
65  },
66  );

```



```
83 };
84 // Thạch Minh Luân - 22520827
85 const styles = StyleSheet.create({
86   container: {
87     paddingBottom: "10%",
88   },
89   containerChild: {
90     padding: 5,
91   },
92   txtMuc: {
93     fontSize: 30,
94     fontWeight: "bold",
95     paddingLeft: 10,
96   },
97   loaderContainer: {
98     justifyContent: "center",
99     height: "100%",
100  },
101  khauhieu: {
102    alignSelf: "center",
103    paddingVertical: 10,
104    fontSize: 23,
105    fontWeight: "bold",
106    color: "orange",
107    fontStyle: "italic",
108  },
109 });
110
111 export default HomeScreen;
112
```

- CategoriesScreen.js

```

pages > CategoriesScreen.js > ...
1  import React, { useEffect, useState } from "react";
2  import { useFocusEffect } from "@react-navigation/native";
3  import { View, FlatList, StyleSheet, ActivityIndicator } from "react-native";
4  import {
5    fetchCategories,
6    fetchAllProducts,
7    fetchProductsByCategory,
8  } from "../services/api";
9
10 import CategoryItem from "../components/categoryItem";
11 import ProductItem from "../components/ProductItem";
12 // Thạch Minh Luân - 22520827
13 const CategoriesScreen = ({ navigation }) => {
14   const [categories, setCategories] = useState([]);
15   const [products, setProducts] = useState([]);
16   const [selectedCategory, setSelectedCategory] = useState("All");
17   const [loading, setLoading] = useState(true);
18
19   useEffect(() => {
20     const getCategories = async () => {
21       const categories = await fetchCategories();
22       setCategories(categories);
23       const products = await fetchAllProducts();
24       setProducts(products);
25       setLoading(false);
26     };
27     getCategories();
28   }, []);
29
30   useFocusEffect(
31     React.useCallback(() => {
32       handleCategorySelect("All");
33     }, [])
34   );
35   // Thạch Minh Luân - 22520827
36   const handleCategorySelect = async (category) => {
37     setSelectedCategory(category);
38     if (category === "All") {
39       const products = await fetchAllProducts();
40       setProducts(products);
41     } else {
42       const products = await fetchProductsByCategory(category);
43       setProducts(products);
44     }
45   };
46
47   if (loading) {
48     return (
49       <View style={styles.loaderContainer}>
50         <ActivityIndicator size="large" color="blue" />
51       </View>
52     );

```

```

pages > CategoriesScreen.js > ...
13  const CategoriesScreen = ({ navigation }) => {
53  }
54
55  return (
56    <View style={styles.container}>
57      <View style={styles.itemContainer}>
58        <FlatList
59          horizontal
60          data={categories}
61          keyExtractor={({ item }) => item}
62          renderItem={({ item }) => (
63            <CategoryItem
64              category={item}
65              onPress={() => handleCategorySelect(item)}
66              isActive={selectedCategory === item}
67            />
68          )}
69        />
70      </View>
71      { /* Thạch Minh Luân - 22520827 */ }
72      <FlatList
73        numColumns={2}
74        data={products}
75        keyExtractor={({ item }) => item.id}
76        renderItem={({ item }) => (
77          <ProductItem
78            product={item}
79            onPress={() =>
80              navigation.navigate("ProductDetail", { productId: item.id })
81            }
82          />
83        )}
84      />
85    </View>
86  );
87 };
88 // Thạch Minh Luân - 22520827
89 const styles = StyleSheet.create({
90   itemContainer: {
91     backgroundColor: "white",
92     borderTopWidth: 1,
93   },
94   container: {
95     paddingBottom: "20%",
96   },
97   loaderContainer: {
98     justifyContent: "center",
99     height: "100%",
100  },
101 });
102
103 export default CategoriesScreen;

```

○ ProfileScreen.js

```

pages > ProfileScreen.js > ...
1  import React, { useContext, useState, useEffect } from "react";
2  import {
3    View,
4    Button,
5    Text,
6    StyleSheet,
7    ActivityIndicator,
8    Image,
9    TouchableOpacity,
10 } from "react-native";
11 import { AuthContext } from "../context/AuthContext";
12 import { fetchUserById } from "../services/api";
13 import Icon from "react-native-vector-icons/FontAwesome";
14 import { useNavigation } from "@react-navigation/native";
15 // Thạch Minh Luân - 22520827
16 const ProfileScreen = () => {
17   const { logout, userId } = useContext(AuthContext);
18   const [userInfo, setUserInfo] = useState(null);
19   const [loading, setLoading] = useState(true);
20   const navigation = useNavigation();
21
22   function InHoaChuCai(text) {
23     return text.replace(/\b\w/g, (char) => char.toUpperCase());
24   }
25
26   useEffect(() => {
27     const getUser = async () => {
28       console.log("userId: " + userId);
29       if (userId) {
30         const userData = await fetchUserById(userId);
31         setUserInfo(userData);
32         setLoading(false);
33       }
34     };
35     getUser();
36   }, []);
37   // Thạch Minh Luân - 22520827
38   const handleUserUpdate = (updatedUser) => {
39     setUserInfo(updatedUser);
40   };
41
42   if (loading) {
43     return (
44       <View style={styles.loaderContainer}>
45         <ActivityIndicator size="large" color="blue" />
46       </View>
47     );
48   }
49
50   return (
51     <View style={styles.container}>
52       <View style={styles.headerContainer}>

```

```

pages > ProfileScreen.js > styles
16  const ProfileScreen = () => {
50    return (
51      <View style={styles.container}>
52        <View style={styles.headerContainer}>
53          <Image
54            style={styles.avt}
55            source={{
56              uri: "https://i.pinimg.com/originals/59/f0/d0/59f0d0067c5d04c5db5f92f517767002.jpg",
57            }}
58          />
59          <Text style={styles.nameuser}>
60            {InHoaChuCai(`${userInfo.name.firstname} ${userInfo.name.lastname}`)}
61          </Text>
62
63          <TouchableOpacity
64            style={styles.icon}
65            onPress={() =>
66              navigation.navigate("EditScreen", {
67                userInfo: userInfo,
68                onUpdate: handleUserUpdate,
69              })
70            }
71          >
72            <Icon name="edit" size={35} />
73          </TouchableOpacity>
74        </View>
75        {/* Thạc Minh Luân - 22520827 */}
76        {/* Information */}
77        <View style={styles.card}>
78          <Text style={styles.thuoc tinh}>Name: </Text>
79          <Text style={styles.dulieu}>
80            {userInfo.name.firstname} {userInfo.name.lastname}
81          </Text>
82        </View>
83
84        <View style={styles.card}>
85          <Text style={styles.thuoc tinh}>Username: </Text>
86          <Text style={styles.dulieu}>{userInfo.username}</Text>
87        </View>
88        {/* Thạc Minh Luân - 22520827 */}
89        <View style={styles.card}>
90          <Text style={styles.thuoc tinh}>Email: </Text>
91          <Text style={styles.dulieu}>{userInfo.email}</Text>
92        </View>
93
94        <View style={styles.card}>
95          <Text style={styles.thuoc tinh}>Phone: </Text>
96          <Text style={styles.dulieu}>{userInfo.phone}</Text>
97        </View>
98
99        <View style={styles.card}>
100         <Text style={styles.thuoc tinh}>Address: </Text>

```

```

pages > ProfileScreen.js > styles
16  const ProfileScreen = () => {
100      <Text style={styles.thuoc tinh}>Address: </Text>
101      <Text style={styles.dulieu}>
102          {userInfo.address.number}, {userInfo.address.street},{ " "}
103          {userInfo.address.city}
104      </Text>
105  </View>
106      <Button title="LOG OUT" onPress={logout} />
107  </View>
108  );
109  };
110  // Thạch Minh Luân - 22520827
111  const styles = StyleSheet.create({
112      container: {
113          alignItems: "center",
114          marginTop: 100,
115      },
116      loaderContainer: {
117          justifyContent: "center",
118          height: "100%",
119      },
120      headerContainer: {
121          flexDirection: "row",
122      },
123      avt: {
124          height: 100,
125          width: 100,
126          borderRadius: 500,
127          borderWidth: 4,
128      },
129      nameuser: {
130          fontSize: 30,
131          fontWeight: "bold",
132          height: "100%",
133          width: "60%",
134          padding: 20,
135      },
136      card: {
137          width: "100%",
138          margin: 7,
139      },
140      // Thạch Minh Luân - 22520827
141      thuoc tinh: {
142          fontSize: 23,
143          fontWeight: "bold",
144          paddingHorizontal: 15,
145      },
146      dulieu: {
147          fontSize: 20,
148          fontWeight: "400",
149          paddingHorizontal: 15,
150      },

```

```
140 // Thạch Minh Luân - 22520827
141 thuoctinh: {
142   fontSize: 23,
143   fontWeight: "bold",
144   paddingHorizontal: 15,
145 },
146 dulieu: {
147   fontSize: 20,
148   fontWeight: "400",
149   paddingHorizontal: 15,
150 },
151 icon: {
152   right: 20,
153   top: 40,
154 },
155 });
156
157 export default ProfileScreen;
158
```

- o CartsScreen.js

```

pages > 📁 CartsScreen.js > 📄 styles
1  import {
2    View,
3    Text,
4    StyleSheet,
5    ActivityIndicator,
6    FlatList,
7    Button,
8    Modal,
9    TouchableOpacity,
10 } from "react-native";
11 import { useContext, useState, useEffect } from "react";
12 import { CartContext } from "../context/CartContext";
13 import CartItem from "../components/cartItem";
14 import { useNavigation } from "@react-navigation/native";
15 // Thạch Minh Luân - 22520827
16 const CartsScreen = () => {
17   const {
18     loading,
19     products,
20     quantity,
21     totalPrice,
22     fetchCartData,
23     handleRemoveItem,
24     handleIncreaseQuantity,
25     handleDecreaseQuantity,
26   } = useContext(CartContext);
27
28   const [modalVisible, setModalVisible] = useState(false);
29   const [productToRemove, setProductToRemove] = useState(null);
30   const navigation = useNavigation();
31
32   useEffect(() => {
33     fetchCartData();
34   }, []);
35
36   const handleNavigateToHome = () => {
37     navigation.navigate("Home"); // Điều hướng đến trang chủ
38   };
39   // Thạch Minh Luân - 22520827
40   if (loading) {
41     return (
42       <View style={styles.loaderContainer}>
43         <ActivityIndicator size="large" color="blue" />
44       </View>
45     );
46   }
47
48   if (products.length === 0) {
49     return (
50       <View style={styles.emptyContainer}>
51         <Text style={styles.emptyText}>Your cart is empty!</Text>
52         <Button title="Go Shopping" onPress={handleNavigateToHome} />

```



```

pages > CartScreen.js > styles
16  const CartScreen = () => {
52      <Button title="Go Shopping" onPress={handleNavigateToHome} />
53      </View>
54  );
55  }
56  // Thạch Minh Luân - 22520827
57  return (
58      <View style={styles.container}>
59          <FlatList
60              data={products}
61              keyExtractor={({item}) => item.id.toString()}
62              renderItem={({ item }) => (
63                  <CartItem
64                      product={item}
65                      quantity={quantity[item.id]}
66                      onIncrease={() => handleIncreaseQuantity(item.id)}
67                      onDecrease={() => {
68                          if (quantity[item.id] > 1) {
69                              handleDecreaseQuantity(item.id);
70                          } else {
71                              setProductToRemove(item.id);
72                              setModalVisible(true);
73                          }
74                      }}
75                      onRemove={() => {
76                          setProductToRemove(item.id);
77                          setModalVisible(true);
78                      }}
79                  />
80              )}
81          />
82      <View style={styles.footer}>
83          <Text style={styles.totalText}>Total: ${totalPrice}</Text>
84          <TouchableOpacity style={styles.checkoutButton}>
85              <Text style={styles.checkoutButtonText}>Checkout</Text>
86          </TouchableOpacity>
87      </View>
88      { /* // Thạch Minh Luân - 22520827 */ }
89      <Modal
90          visible={modalVisible}
91          transparent={true}
92          animationType="slide"
93          onRequestClose={() => setModalVisible(false)}
94      >
95          <View style={styles.modalContainer}>
96              <View style={styles.contentModal}>
97                  <Text style={styles.modalTitle}>
98                      Are you sure you want to remove this item?
99                  </Text>
100                 <View style={styles.modalButtons}>
101                     <TouchableOpacity
102                         onPress={() => setModalVisible(false)}

```

```

pages > 📁 CartsScreen.js > 📄 CartsScreen
16  const CartsScreen = () => {
101      <TouchableOpacity
102          onPress={() => setModalVisible(false)}
103          style={{ ...styles.btn, backgroundColor: "red" }}
104      >
105          <Text style={styles.txtBtn}>No</Text>
106      </TouchableOpacity>
107      <TouchableOpacity
108          title="Yes"
109          onPress={() => {
110              handleRemoveItem(productToRemove);
111              setModalVisible(false);
112          }}
113          style={{ ...styles.btn, backgroundColor: "blue" }}
114      >
115          [/* // Thạch Minh Luân - 22520827 */]
116          <Text style={styles.txtBtn}>Yes</Text>
117      </TouchableOpacity>
118  </View>
119  </View>
120  </View>
121  </Modal>
122  </View>
123  );
124  };
125  // Thạch Minh Luân - 22520827
126  const styles = StyleSheet.create({
127      container: {
128          flex: 1,
129          paddingBottom: 70,
130      },
131      loaderContainer: {
132          flex: 1,
133          justifyContent: "center",
134          alignItems: "center",
135      },
136      emptyContainer: {
137          flex: 1,
138          justifyContent: "center",
139          alignItems: "center",
140      },
141      emptyText: {
142          fontSize: 18,
143          marginBottom: 10,
144      },
145      footer: {
146          position: "absolute",
147          bottom: 0,
148          left: 0,
149          right: 0,
150          backgroundColor: "#fff",
151          padding: 15,

```

```

pages > 📁 CartsScreen.js > 📄 CartsScreen
126   const styles = StyleSheet.create({
145     footer: {
151       padding: 15,
152       borderTopWidth: 1,
153       borderColor: "#ccc",
154       flexDirection: "row",
155       justifyContent: "space-between",
156       alignItems: "center",
157     },
158     totalText: {
159       fontSize: 18,
160       fontWeight: "bold",
161     },
162     checkoutButton: {
163       backgroundColor: "blue",
164       padding: 10,
165       borderRadius: 5,
166     },
167     checkoutButtonText: {
168       color: "white",
169       fontWeight: "bold",
170     },
171     modalContainer: {
172       flex: 1,
173       justifyContent: "center",
174       alignItems: "center",
175       backgroundColor: "rgba(0, 0, 0, 0.5)",
176     },
177     modalTitle: {
178       fontSize: 18,
179       marginBottom: 20,
180       color: "black",
181     },
182     modalButtons: {
183       flexDirection: "row",
184       justifyContent: "space-between",
185       width: "100%",
186       paddingHorizontal: 50,
187     },
188     contentModal: {
189       width: "90%",
190       padding: 20,
191       backgroundColor: "white",
192       borderRadius: 10,
193     },
194     // Thạch Minh Luân - 22520827
195     btn: {
196       width: "40%",
197       paddingHorizontal: 20,
198       paddingVertical: 5,
199       flexDirection: "row",
200       justifyContent: "center",

```

```
194 // Thạch Minh Luân - 22520827
195 btn: {
196   width: "40%",
197   paddingHorizontal: 20,
198   paddingVertical: 5,
199   flexDirection: "row",
200   justifyContent: "center",
201   alignItems: "center",
202   borderRadius: 5,
203 },
204 txtBtn: {
205   fontSize: 16,
206   color: "white",
207   fontWeight: "bold",
208 },
209 });
210
211 export default CartsScreen;
212
```

- ProductDetailScreen.js

```

pages > ProductDetailScreen.js > ...
1  import React, { useEffect, useState } from "react";
2  import {
3    View,
4    Text,
5    Image,
6    StyleSheet,
7    ActivityIndicator,
8    ScrollView,
9  } from "react-native";
10 import { fetchProductById } from "../services/api";
11 // Thạch Minh Luân - 22520827
12 const ProductDetailScreen = ({ route, navigation }) => {
13   const { productId } = route.params;
14   const [product, setProduct] = useState(null);
15   const [loading, setLoading] = useState(true);
16   // Thạch Minh Luân - 22520827
17   useEffect(() => {
18     const getProduct = async () => {
19       const productData = await fetchProductById(productId);
20       setProduct(productData);
21       navigation.setOptions({ title: productData.title });
22       setLoading(false);
23     };
24     getProduct();
25   }, [productId]);
26
27   if (loading) {
28     return (
29       <View style={styles.loaderContainer}>
30         <ActivityIndicator size="large" color="blue" />
31       </View>
32     );
33   }
34   // Thạch Minh Luân - 22520827
35   return (
36     <ScrollView style={styles.container}>
37       <Image source={{ uri: product.image }} style={styles.image} />
38       <Text style={styles.title}>{product.title}</Text>
39       <Text style={styles.description}>{product.description}</Text>
40       <Text style={styles.price}>Price: ${product.price}</Text>
41       <View style={styles.ratingContainer}>
42         <Text style={styles.rating}>{product.rating.rate} ★ </Text>
43         <Text style={styles.rating}>({product.rating.count} reviews)</Text>
44       </View>
45     </ScrollView>
46   );
47 };
48 // Thạch Minh Luân - 22520827
49 const styles = StyleSheet.create({
50   container: {
51     flex: 1,
52     backgroundColor: "white",

```

```
47   };
48   // Thạch Minh Luân - 22520827
49   const styles = StyleSheet.create({
50     container: {
51       flex: 1,
52       backgroundColor: "white",
53       paddingHorizontal: 10,
54       borderTopWidth: 1,
55     },
56     image: {
57       width: "100%",
58       height: 300,
59       resizeMode: "contain",
60       marginTop: 10,
61     },
62     title: {
63       fontSize: 20,
64       fontWeight: "bold",
65       marginVertical: 10,
66     },
67     price: {
68       fontSize: 20,
69       fontWeight: "bold",
70       color: "black",
71       marginVertical: 5,
72     },
73     description: {
74       fontSize: 20,
75       color: "black",
76     },
77     ratingContainer: {
78       flexDirection: "row",
79     },
80     rating: {
81       fontSize: 18,
82       fontWeight: "500",
83       paddingBottom: 5,
84     },
85     loaderContainer: {
86       flex: 1,
87       justifyContent: "center",
88       alignItems: "center",
89     },
90   });
91
92   export default ProductDetailScreen;
93
```

○ EditScreen.js

```

pages > EditScreen.js > ...
1  import {
2    View,
3    Text,
4    TextInput,
5    StyleSheet,
6    ScrollView,
7    Alert,
8    TouchableOpacity,
9  } from "react-native";
10 import React, { useState, useEffect } from "react";
11 import axios from "axios";
12 import Icon from "react-native-vector-icons/FontAwesome";
13 // Thạch Minh Luân - 22520827
14 export default function EditScreen({ route, navigation }) {
15   const { userInfo, onUpdate } = route.params;
16
17   // State lưu trữ dữ liệu chỉnh sửa
18   const [editedUser, setEditedUser] = useState({
19     name: {
20       firstname: userInfo.name.firstname,
21       lastname: userInfo.name.lastname,
22     },
23     username: userInfo.username,
24     email: userInfo.email,
25     phone: userInfo.phone,
26     address: {
27       number: userInfo.address.number.toString(),
28       street: userInfo.address.street,
29       city: userInfo.address.city,
30     },
31   });
32
33   useEffect(() => {
34     navigation.setOptions({
35       headerRight: () => (
36         <TouchableOpacity
37           style={styles.updateButton}
38           onPress={handleUpdateUser}
39         >
40           <Icon name="check" size={24} />
41         </TouchableOpacity>
42       ),
43     });
44   }, [editedUser]);
45   // Thạch Minh Luân - 22520827
46   const handleUpdateUser = async () => {
47     try {
48       const response = await axios.put(
49         `https://fakestoreapi.com/users/${userInfo.id}`,
50         {
51           email: editedUser.email,
52           username: editedUser.username,

```

```

pages > EditScreen.js > ...
14 export default function EditScreen({ route, navigation }) {
46   const handleUpdateUser = async () => {
48     const response = await axios.put(
52       {
53         username: editedUser.username,
54         password: userInfo.password,
55         name: {
56           firstname: editedUser.name.firstname,
57           lastname: editedUser.name.lastname,
58         },
59         address: {
60           city: editedUser.address.city,
61           street: editedUser.address.street,
62           number: parseInt(editedUser.address.number, 10),
63           zipcode: userInfo.address.zipcode,
64           geolocation: userInfo.address.geolocation,
65         },
66         phone: editedUser.phone,
67       }
68     );
69     console.log("Updated user:", response.data);
70     if (onUpdate) onUpdate(response.data);
71     Alert.alert("Success", "User information updated successfully!");
72     navigation.goBack();
73   } catch (error) {
74     console.error("Error updating user:", error);
75     Alert.alert(
76       "Error",
77       "Failed to update user information. Please try again."
78     );
79   }
80 };
81 // Thạch Minh Luân - 22520827
82 const handleInputChange = (
83   field,
84   value,
85   isNested = false,
86   nestedField = null
87 ) => {
88   if (isNested && nestedField) {
89     setEditedUser((prev) => ({
90       ...prev,
91       [field]: {
92         ...prev[field],
93         [nestedField]: value,
94       },
95     }));
96   } else {
97     setEditedUser((prev) => ({ ...prev, [field]: value }));
98   }
99 };
100

```



```

pages > EditScreen.js > ...
14 export default function EditScreen({ route, navigation }) {
100
101   return (
102     <ScrollView contentContainerStyle={styles.container}>
103       { /* // Thạch Minh Luân - 22520827 */ }
104       <View style={styles.row}>
105         <View style={styles.inputContainer}>
106           <Text style={styles.label}>First Name</Text>
107           <TextInput
108             style={styles.input}
109             placeholder="First Name"
110             defaultValue={editedUser.name.firstname}
111             onChangeText={(text) =>
112               handleInputChange("name", text, true, "firstname")
113             }
114           />
115         </View>
116         <View style={styles.inputContainer}>
117           <Text style={styles.label}>Last Name</Text>
118           <TextInput
119             style={styles.input}
120             placeholder="Last Name"
121             defaultValue={editedUser.name.lastname}
122             onChangeText={(text) =>
123               handleInputChange("name", text, true, "lastname")
124             }
125           />
126         </View>
127       </View>
128       { /* // Thạch Minh Luân - 22520827 */ }
129       { /* Username */ }
130       <View style={styles.inputContainer}>
131         <Text style={styles.label}>Username</Text>
132         <TextInput
133           style={styles.input}
134           placeholder="Username"
135           defaultValue={editedUser.username}
136           onChangeText={(text) => handleInputChange("username", text)}
137         />
138       </View>
139
140       { /* Email */ }
141       <View style={styles.inputContainer}>
142         <Text style={styles.label}>Email</Text>
143         <TextInput
144           style={styles.input}
145           placeholder="Email"
146           keyboardType="email-address"
147           defaultValue={editedUser.email}
148           onChangeText={(text) => handleInputChange("email", text)}
149         />
150       </View>

```

```

pages > EditScreen.js > ...
14  export default function EditScreen({ route, navigation }) {
152      {/* Phone Number */}
153      <View style={styles.inputContainer}>
154          <Text style={styles.label}>Phone Number</Text>
155          <TextInput
156              style={styles.input}
157              placeholder="Phone Number"
158              keyboardType="phone-pad"
159              defaultValue={editedUser.phone}
160              onChangeText={({text}) => handleInputChange("phone", text)}
161          />
162      </View>
163      {/* // Thạch Minh Luân - 22520827 */}
164      {/* House Number */}
165      <View style={styles.inputContainer}>
166          <Text style={styles.label}>House Number</Text>
167          <TextInput
168              style={styles.input}
169              placeholder="House Number"
170              keyboardType="numeric"
171              defaultValue={editedUser.address.number}
172              onChangeText={({text}) =>
173                  handleInputChange("address", text, true, "number")
174              }
175          />
176      </View>
177
178      {/* Street */}
179      <View style={styles.inputContainer}>
180          <Text style={styles.label}>Street</Text>
181          <TextInput
182              style={styles.input}
183              placeholder="Street"
184              defaultValue={editedUser.address.street}
185              onChangeText={({text}) =>
186                  handleInputChange("address", text, true, "street")
187              }
188          />
189      </View>
190      {/* // Thạch Minh Luân - 22520827 */}
191      {/* City */}
192      <View style={styles.inputContainer}>
193          <Text style={styles.label}>City</Text>
194          <TextInput
195              style={styles.input}
196              placeholder="City"
197              defaultValue={editedUser.address.city}
198              onChangeText={({text}) =>
199                  handleInputChange("address", text, true, "city")
200              }
201          />
202      </View>

```

```

pages > EditScreen.js > ...
14  export default function EditScreen({ route, navigation }) {
197      |         defaultValue={editedUser.address.city}
198      |         onChangeText={(text) =>
199      |             handleInputChange("address", text, true, "city")
200      |         }
201      |     />
202      |     </View>
203      | </ScrollView>
204  );
205  }
206  // Thạch Minh Luân - 22520827
207  const styles = StyleSheet.create({
208      container: {
209          flexGrow: 1,
210          padding: 16,
211          backgroundColor: "#fff",
212      },
213      row: {
214          flexDirection: "row",
215          justifyContent: "space-between",
216      },
217      inputContainer: {
218          flex: 1,
219          marginBottom: 16,
220          marginHorizontal: 8,
221      },
222      label: {
223          marginBottom: 8,
224          fontSize: 16,
225          fontWeight: "bold",
226          color: "#333",
227      },
228      input: {
229          height: 40,
230          borderWidth: 1,
231          borderColor: "#ccc",
232          borderRadius: 8,
233          paddingHorizontal: 8,
234          fontSize: 16,
235      },
236      updateButton: {
237          marginRight: 16,
238          fontSize: 16,
239          color: "blue",
240          fontWeight: "bold",
241      },
242  });
243

```

- Folder “components”
 - banner.js

```

components > banner.js > Banner
1  import { useEffect, useRef, useState } from "react";
2  import {
3    Dimensions,
4    ScrollView,
5    StyleSheet,
6    Text,
7    View,
8    Image,
9  } from "react-native";
10
11  const image = [
12    "https://i.pinimg.com/originals/f1/7e/0d/f17e0d810fe908952f94c292687b16e9.jpg",
13    "https://i.pinimg.com/originals/3a/b8/d4/3ab8d4c2461f0c85260133fabb3cfb55.jpg",
14    "https://i.pinimg.com/originals/bc/db/59/bcdb597a0e017d443f81ee38c896226b.jpg",
15    "https://d1csarkz8obe9u.cloudfront.net/posterpreviews/fashion-sale-banner-template-design-f4bd3f84698d21014802a97a1b1540b9_screen.jpg?ts=1657339529",
16  ];
17  // Thạch Minh Luân - 22520827
18  const WIDTH = Dimensions.get("window").width;
19  const HEIGHT = Dimensions.get("window").height;
20
21  export default function Banner() {
22    const scrollRef = useRef(null);
23    const [currentIndex, setCurrentIndex] = useState(0);
24    // Thạch Minh Luân - 22520827
25    useEffect(() => {
26      const interval = setInterval(() => {
27        setCurrentIndex((prevIndex) => {
28          let nextIndex = prevIndex + 1;
29          if (nextIndex === image.length) {
30            scrollRef.current?.scrollTo({ x: 0, animated: false });
31            nextIndex = 1;
32            setTimeout(() => {
33              scrollRef.current?.scrollTo({
34                x: nextIndex * WIDTH,
35                animated: true,
36              });
37            }, 1000);
38          } else {
39            scrollRef.current?.scrollTo({ x: nextIndex * WIDTH, animated: true });
40          }
41          return nextIndex;
42        });
43      }, 2000);
44
45      return () => clearInterval(interval);
46    }, []);
47    // Thạch Minh Luân - 22520827
48
49    return (
50      <View style={styles.container}>
51        <View style={styles.containerChild}>
52          <ScrollView

```

```

components > banner.js > Banner
21  export default function Banner() {
25      useEffect(() => {
43          }, 2000);
44
45      return () => clearInterval(interval);
46  }, []);
47  // Thạch Minh Luân - 22520827
48
49  return (
50      <View style={styles.container}>
51          <View style={styles.containerChild}>
52              <ScrollView
53                  ref={scrollRef}
54                  showsHorizontalScrollIndicator={false}
55                  pagingEnabled
56                  horizontal
57                  style={styles.wrap}
58              >
59                  {[...image, image[0]].map((e, index) => (
60                      <Image
61                          key={index}
62                          resizeMode="stretch"
63                          style={styles.wrap}
64                          source={{ uri: e }}
65                      />
66                  )]}
67              </ScrollView>
68          </View>
69      </View>
70  );
71  }
72  // Thạch Minh Luân - 22520827
73  const styles = StyleSheet.create({
74      container: {
75          flex: 1,
76          backgroundColor: "#fff",
77          alignItems: "center",
78          justifyContent: "center",
79      },
80      containerChild: {
81          borderWidth: 1,
82      },
83      wrap: {
84          width: WIDTH,
85          height: HEIGHT * 0.25,
86      },
87  });
88

```

○ cartItem.js

```

components > JS cartItem.js > ...
1  import { View, TouchableOpacity, Image, Text, StyleSheet } from "react-native";
2  import FontAwesome6 from "@expo/vector-icons/FontAwesome6";
3  import React from "react";
4
5  const CartItem = ({ product, quantity, onIncrease, onDecrease, onRemove }) => {
6    const total = (product.price * quantity).toFixed(2);
7    // Thạch Minh Luân - 22520827
8    const handleIncreaseQuantity = () => {
9      if (onIncrease) {
10        onIncrease(product.id);
11      }
12    };
13
14    const handleDecreaseQuantity = () => {
15      if (onDecrease && quantity > 1) {
16        onDecrease(product.id);
17      }
18    };
19    // Thạch Minh Luân - 22520827
20    return (
21      <View style={styles.container}>
22        <View style={styles.titleContainer}>
23          <Text style={styles.title}>{product.title}</Text>
24        </View>
25
26        <View style={styles.img_priceContainer}>
27          <Image source={{ uri: product.image }} style={styles.img} />
28          <View style={styles.price_quantityContainer}>
29            <Text style={styles.price}>${product.price}</Text>
30            <View style={styles.quantityContainer}>
31              <TouchableOpacity onPress={handleDecreaseQuantity}>
32                <FontAwesome6 name="minus" size={17} color="black" />
33              </TouchableOpacity>
34
35              <Text style={styles.quantity}>{quantity}</Text>
36
37              <TouchableOpacity onPress={handleIncreaseQuantity}>
38                <FontAwesome6 name="plus" size={17} color="black" />
39              </TouchableOpacity>
40            </View>
41          </View>
42          { /* // Thạch Minh Luân - 22520827 */ }
43          { /* Total va remove */ }
44          <View style={styles.totalContainer}>
45            <Text style={styles.total}>Total: ${total}</Text>
46            <TouchableOpacity onPress={onRemove}>
47              <FontAwesome6 name="trash" size={20} color="red" />
48            </TouchableOpacity>
49          </View>
50        </View>
51      </View>
52    );

```

```

components > cartItem.js > ...
5   const CartItem = ({ product, quantity, onIncrease, onDecrease, onRemove }) => {
52   };
53   };
54   // Thạch Minh Luân - 22520827
55   const styles = StyleSheet.create({
56     container: {
57       width: "98%",
58       height: "auto",
59       margin: 5,
60       backgroundColor: "white",
61       borderRadius: 5,
62       borderWidth: 1,
63     },
64     titleContainer: {
65       marginHorizontal: 5,
66       marginTop: 5,
67       marginBottom: 10,
68     },
69     img_priceContainer: {
70       margin: 5,
71       flexDirection: "row",
72       borderColor: "orange",
73     },
74     price_quantityContainer: {
75       width: "25%",
76       height: "auto",
77       marginStart: 30,
78       borderColor: "red",
79     },
80     quantityContainer: {
81       width: 90,
82       height: 30,
83       margin: 5,
84       marginTop: 10,
85       flexDirection: "row",
86       borderColor: "green",
87       alignItems: "center",
88       alignContent: "center",
89     }, // Thạch Minh Luân - 22520827
90     totalContainer: {
91       width: "47%",
92       flexDirection: "row",
93       borderColor: "blue",
94       alignItems: "center",
95     },
96     title: {
97       fontSize: 21,
98       fontWeight: "00",
99     },
100    img: {
101      height: 90,
102      width: "20%",

```

```
100   img: {
101     height: 90,
102     width: "20%",
103     margin: 2,
104   },
105   price: {
106     fontSize: 18,
107     fontWeight: "bold",
108     paddingTop: 10,
109     textAlign: "left",
110     marginStart: 5,
111   },
112   quantity: {
113     fontSize: 20,
114     paddingHorizontal: 8,
115     textAlign: "center",
116     width: 40,
117   }, // Thạch Minh Luân - 22520827
118   total: {
119     width: "80%",
120     fontSize: 19,
121     fontWeight: "bold",
122   },
123 });
124 // Thạch Minh Luân - 22520827
125 export default CartItem;
126
```


○ categoryItem.js

```

components > categoryItem.js > ...
1  import React from "react";
2  import { TouchableOpacity, Text, StyleSheet, View, Image } from "react-native";
3
4  const categoryIcons = {
5    "All": require("../assets/icon/all.png"),
6    "electronics": require("../assets/icon/electronic.png"),
7    "jewelery": require("../assets/icon/jewelery.png"),
8    "men's clothing": require("../assets/icon/men.png"),
9    "women's clothing": require("../assets/icon/women.png"),
10 };
11 // Thạch Minh Luân - 22520827
12 const CategoryItem = ({ category, onPress, isActive }) => {
13   const iconName = categoryIcons[category];
14   // Thạch Minh Luân - 22520827
15   return (
16     <View style={styles.container}>
17       <TouchableOpacity onPress={onPress} style={styles.container}>
18         { /* <FontAwesome6 name={iconName} size={24} color={isActive ? "blue" : "black"} /> */ }
19         <Image source={iconName} style={styles.icon} />
20         <Text
21           style={[
22             styles.txt,
23             { color: isActive ? "blue" : "black" },
24             { textDecorationLine: isActive ? "underline" : "none" },
25           ]>
26         >
27           {category}
28         </Text>
29       </TouchableOpacity>
30     </View>
31   );
32 };
33 // Thạch Minh Luân - 22520827
34 const styles = StyleSheet.create({
35   container: {
36     alignContent: "center",
37     margin: 10,
38     justifyContent: "center",
39     alignItems: "center",
40   },
41   txt: {
42     fontSize: 17,
43     fontWeight: "bold",
44   },
45   icon: {
46     height: 35,
47     width: 35,
48   },
49 });
50
51 export default CategoryItem;
52

```

○ ProductItem.js

```

components > ProductItem.js > styles > img
1  import React from "react";
2  import { TouchableOpacity, Text, Image, View, StyleSheet } from "react-native";
3  import FontAwesome6 from "@expo/vector-icons/FontAwesome6";
4  import { CartContext } from "../context/CartContext";
5  import { useContext } from "react";
6  // Thạch Minh Luân - 22520827
7  const ProductItem = ({ product, onPress }) => {
8    const { addToCart } = useContext(CartContext);
9
10   return (
11     <View style={styles.container}>
12       <TouchableOpacity onPress={onPress} style={styles.childContainer}>
13         <Image source={{ uri: product.image }} style={styles.img} />
14         <Text numberOfLines={2} ellipsizeMode="tail" style={styles.title}>
15           {product.title}
16         </Text>
17         <Text style={styles.price}>${product.price}</Text>
18         <View style={styles.ratingContainer}>
19           <Text style={styles.rating}>{product.rating.rate} ★ </Text>
20           <Text style={styles.rating}>({product.rating.count})</Text>
21         </View>
22         { /* // Thạch Minh Luân - 22520827 */ }
23       </TouchableOpacity>
24       <TouchableOpacity
25         style={styles.btnAdd}
26         onPress={() => addToCart(product)}
27       >
28         <FontAwesome6 name="add" size={24} color="white" />
29       </TouchableOpacity>
30     </View>
31   );
32 };
33 // Thạch Minh Luân - 22520827
34 const styles = StyleSheet.create({
35   container: {
36     width: "48%",
37     height: "auto",
38     borderWidth: 1,
39     margin: 5,
40     backgroundColor: "white",
41     borderRadius: 10,
42   },
43   childContainer: {
44     padding: 5,
45     flex: 1,
46   }, // Thạch Minh Luân - 22520827
47   priceContainer: {
48     flexDirection: "row",
49   },
50   img: {
51     height: 200,
52     width: "90%",

```

```

33 // Thạch Minh Luân - 22520827
34 const styles = StyleSheet.create({
35   container: {
36     width: "48%",
37     height: "auto",
38     borderWidth: 1,
39     margin: 5,
40     backgroundColor: "white",
41     borderRadius: 10,
42   },
43   childContainer: {
44     padding: 5,
45     flex: 1,
46   }, // Thạch Minh Luân - 22520827
47   priceContainer: {
48     flexDirection: "row",
49   },
50   img: {
51     height: 200,
52     width: "90%",
53     margin: 2,
54     alignSelf: "center",
55   },
56   ratingContainer: {
57     flexDirection: "row",
58   },
59   title: {
60     fontSize: 18,
61     fontWeight: "500",
62   },
63   price: {
64     fontSize: 20,
65     fontWeight: "bold",
66     color: "red",
67     marginVertical: 4,
68   },
69   rating: {
70     fontSize: 18,
71   },
72   btnAdd: {
73     position: "absolute",
74     bottom: 15,
75     right: 15,
76     backgroundColor: "blue",
77     borderRadius: 24,
78     padding: 5,
79   },
80 });
81
82 export default ProductItem;

```

- Folder “Context”
 - AuthContext.js

```

context > AuthContext.js > AuthProvider > login > then() callback
1  import React, { useState, createContext } from "react";
2  import axios from "axios";
3  import { jwtDecode } from "jwt-decode";
4  import { Alert } from "react-native";
5
6  export const AuthContext = createContext();
7  export const AuthProvider = ({ children }) => {
8    const [token, setToken] = useState(null);
9    const [isLoading, setIsLoading] = useState(false);
10   const [isAuth, setIsAuth] = useState(false);
11   const [userId, setUserId] = useState();
12   // Thạch Minh Luân - 22520827
13   const login = async (username, password) => {
14     setIsLoading(true);
15     await axios
16       .post("https://fakestoreapi.com/auth/login", {
17         username: username,
18         password: password,
19         // username: "johnd",
20         // password: "m38rmF$"
21       })
22       .then((res) => {
23         const tokendata = res.data.token;
24         setToken(tokendata);
25         console.log("Tokendata: " + token);
26         if (tokendata) {
27           const decodedData = jwtDecode(tokendata);
28           setUserId(decodedData.sub);
29           console.log("Decode: ", decodedData);
30           setIsLoading(false);
31           setIsAuth(true);
32         }
33       }) // Thạch Minh Luân - 22520827
34       .catch((e) => {
35         console.log("get token error" + e);
36         Alert.alert(
37           "Login Failed",
38           "Incorect email or password. Please try again."
39         );
40       });
41   };
42   // Thạch Minh Luân - 22520827
43   const logout = () => {
44     setIsAuth(false);
45   };
46
47   return (
48     <AuthContext.Provider
49       value={{ isLoading, token, userId, setUserId, isAuth, login, logout }}
50     >
51       {children}
52     </AuthContext.Provider>
53   );
54 };

```

- CartContext.js

```

context > CartContext.js > CartContext
1  import React, { createContext, useState, useEffect, useContext } from "react";
2  import {
3    fetchCartById,
4    fetchProductById,
5    updateCartById,
6    deleteCartById,
7  } from "../services/api";
8  import { AuthContext } from "../AuthContext";
9  import { Alert } from "react-native";
10
11 export const CartContext = createContext({
12   loading: false,
13   products: [],
14   quantity: {},
15   totalPrice: 0,
16   fetchCartData: () => {},
17   handleRemoveItem: () => {},
18   handleIncreaseQuantity: () => {},
19   handleDecreaseQuantity: () => {},
20 });
21
22 let cartId = null;
23 // Thạch Minh Luân - 22520827
24 export const CartProvider = ({ children }) => {
25   const [productId, setProductId] = useState([]);
26   const [loading, setLoading] = useState(true);
27   const [products, setProducts] = useState([]);
28   const [quantity, setQuantity] = useState({});
29   const [totalPrice, setTotalPrice] = useState(0);
30   const { userId } = useContext(AuthContext);
31
32   const fetchCartData = async () => {
33     if (userId) {
34       setLoading(true);
35       const cartUser = await fetchCartById(userId);
36       cartId = cartUser[0].id;
37       if (cartUser.length > 0) {
38         const productData = cartUser[0].products.map((product) => ({
39           productId: product.productId,
40           quantity: product.quantity,
41         }));
42         setProductId(productData.map((product) => product.productId));
43         setQuantity(
44           productData.reduce(
45             (acc, item) => ({ ...acc, [item.productId]: item.quantity }),
46             {}
47           )
48         );
49       }
50     }
51     if (productId.length > 0) {
52       const productsData = await Promise.all(

```

```

context > CartContext.js > CartContext
24 export const CartProvider = ({ children }) => {
32   const fetchCartData = async () => {
51     if (productId.length > 0) {
52       const productsData = await Promise.all(
53         productId.map((id) => fetchProductById(id))
54       );
55       setProducts(productsData);
56     }
57     setLoading(false);
58   }
59 }; // Thạch Minh Luân - 22520827
60
61 // Tính tổng giá khi products hoặc quantity thay đổi
62 useEffect(() => {
63   const calculateTotal = () => {
64     const total = products.reduce((sum, product) => {
65       const qty = quantity[product.id] || 0;
66       return sum + product.price * qty;
67     }, 0);
68     setTotalPrice(total.toFixed(2));
69   };
70
71   calculateTotal();
72 }, [products, quantity]);
73
74 const addToCart = (product) => {
75   if (!products.find((p) => p.id === product.id)) {
76     setQuantity((prev) => ({
77       ...prev,
78       [product.id]: (prev[product.id] || 0) + 1,
79     }));
80     setProducts((prev) => [...prev, product]);
81   } else {
82     Alert.alert("Message", "This product is already in your cart.");
83   }
84 };
85 // Thạch Minh Luân - 22520827
86 const handleRemoveItem = async (productId) => {
87   // Xóa sản phẩm khỏi state
88   const updatedProducts = products.filter(
89     (product) => product.id !== productId
90   );
91   const updatedQuantities = { ...quantity };
92   delete updatedQuantities[productId];
93   // Thạch Minh Luân - 22520827
94   setProducts(updatedProducts);
95   setQuantity(updatedQuantities);
96
97   if (updatedProducts.length === 0) {
98     // Xóa toàn bộ giỏ hàng nếu không còn sản phẩm nào
99     try {
100       await deleteCartById(cartId);

```

```

context > 📁 CartContext.js > 📄 CartContext
24   export const CartProvider = ({ children }) => {
86     const handleRemoveItem = async (productId) => {
99       try {
100         await deleteCartById(cartId);
101         console.log("Cart deleted successfully.");
102       } catch (error) {
103         console.error("Error deleting cart:", error);
104       }
105     } else {
106       // Cập nhật lại giỏ hàng với các sản phẩm còn lại
107       const productsToUpdate = updatedProducts.map((product) => ({
108         productId: product.id,
109         quantity: updatedQuantities[product.id],
110       }));
111       // Thạch Minh Luân - 22520827
112       try {
113         await updateCartById(
114           cartId,
115           userId,
116           new Date().toISOString(),
117           productsToUpdate
118         );
119         console.log("Cart updated successfully.");
120       } catch (error) {
121         console.error("Error updating cart:", error);
122       }
123     }
124   };
125   // Thạch Minh Luân - 22520827
126   const handleIncreaseQuantity = (productId) => {
127     setQuantity((prev) => ({
128       ...prev,
129       [productId]: (prev[productId] || 0) + 1,
130     }));
131   };
132   // Thạch Minh Luân - 22520827
133   const handleDecreaseQuantity = (productId) => {
134     setQuantity((prev) => {
135       if (prev[productId] > 1) {
136         return { ...prev, [productId]: prev[productId] - 1 };
137       }
138       return prev;
139     });
140   };
141   // Thạch Minh Luân - 22520827
142   return (
143     <CartContext.Provider
144       value={{
145         loading,
146         products,
147         quantity,
148         totalPrice,

```

```

141 // Thạch Minh Luân - 22520827
142 return (
143   <CartContext.Provider
144     value={{
145       loading,
146       products,
147       quantity,
148       totalPrice,
149       fetchCartData,
150       handleRemoveItem,
151       handleIncreaseQuantity,
152       handleDecreaseQuantity,
153       addToCart,
154     }}
155   >
156     {children}
157   </CartContext.Provider>
158 );
159 };
160

```

- Folder “navigations”
 - AuthStack.js

```

navigations > AuthStack.js > ...
1  import { createStackNavigator } from "@react-navigation/stack";
2  import LoginScreen from "../pages/LoginScreen";
3  import SignupScreen from "../pages/SignupScreen";
4
5  const Stack = createStackNavigator();
6  // Thạch Minh Luân - 22520827
7  const AuthStack = () => {
8    return (
9      <Stack.Navigator initialRouteName="Login">
10        <Stack.Screen
11          name="Login"
12          component={LoginScreen}
13          options={{ headerShown: false }}
14        />
15        <Stack.Screen
16          name="Signup"
17          component={SignupScreen}
18          options={{ headerShown: false }}
19        />
20      </Stack.Navigator>
21    );
22  };
23
24  export default AuthStack;
25

```


- o MainBottom.js

```

navigations > MainBottom.js > ...
1  import { createBottomTabNavigator } from "@react-navigation/bottom-tabs";
2  import { createStackNavigator } from "@react-navigation/stack";
3  import HomeScreen from "../pages/HomeScreen";
4  import CategoriesScreen from "../pages/CategoriesScreen";
5  import CartsScreen from "../pages/CartsScreen";
6  import ProfileScreen from "../pages/ProfileScreen";
7  import ProductDetailScreen from "../pages/ProductDetailScreen";
8  import MaterialIcons from "@expo/vector-icons/MaterialIcons";
9  import FontAwesome from "@expo/vector-icons/FontAwesome";
10 import { View, Text, StyleSheet } from "react-native";
11 import EditScreen from "../pages/EditScreen";
12 import { CartContext } from "../context/CartContext";
13 import React, { useContext, useEffect } from "react";
14 import { getFocusedRouteNameFromRoute } from "@react-navigation/native";
15
16 const Tab = createBottomTabNavigator();
17 const Stack = createStackNavigator();
18 // Thạch Minh Luân - 22520827
19 const CategoriesStack = () => (
20   <Stack.Navigator>
21     <Stack.Screen
22       name="CategoriesScreen"
23       component={CategoriesScreen}
24       options={{ headerShown: true, headerTitle: "Category" }}
25     />
26     <Stack.Screen name="ProductDetail" component={ProductDetailScreen} />
27   </Stack.Navigator>
28 );
29
30 const HomeStack = () => {
31   return (
32     <Stack.Navigator>
33       <Stack.Screen
34         name="HomeScreen"
35         component={HomeScreen}
36         options={{ headerShown: true, headerTitle: "Home" }}
37       />
38       <Stack.Screen name="ProductDetail" component={ProductDetailScreen} />
39     </Stack.Navigator>
40   );
41 };
42 // Thạch Minh Luân - 22520827
43 const ProfileStack = () => (
44   <Stack.Navigator>
45     <Stack.Screen
46       name="ProfileScreen"
47       component={ProfileScreen}
48       options={{ headerShown: false }}
49     />
50     <Stack.Screen name="EditScreen" component={EditScreen} />
51   </Stack.Navigator>
52 );

```

```

navigations > MainBottom.js > ...
53 // Thạch Minh Luân - 22520827
54 const MainBottom = ({ navigation, route }) => {
55   const { products } = useContext(CartContext);
56
57   React.useLayoutEffect(() => {
58     console.log(route);
59     if (route) {
60       const routeName = getFocusedRouteNameFromRoute(route) ?? "";
61       console.log(routeName);
62       if (routeName === "ProductDetail") {
63         navigation.setOptions({ headerShown: false });
64       } else {
65         navigation.setOptions({ tabBarVisible: true });
66       }
67     }
68   }, [navigation, route]);
69   // Thạch Minh Luân - 22520827
70   return (
71     <Tab.Navigator>
72       <Tab.Screen
73         name="Home"
74         component={HomeStack}
75         options={{
76           tabBarIcon: ({ color }) => (
77             <FontAwesome name="home" size={24} color={color} />
78           ),
79           headerShown: false,
80         }}
81       />
82       <Tab.Screen
83         name="Categories"
84         component={CategoriesStack}
85         options={{
86           tabBarIcon: ({ color }) => (
87             <MaterialIcons name="category" size={24} color={color} />
88           ),
89           headerShown: false,
90         }}
91       />
92       { /* // Thạch Minh Luân - 22520827 */ }
93       <Tab.Screen
94         name="Cart"
95         component={CartsScreen}
96         options={{
97           tabBarIcon: ({ color }) => (
98             <View>
99               <FontAwesome name="shopping-cart" size={24} color={color} />
100               {products.length == 0 ? null : (
101                 <View style={styles.huyhieu}>
102                   <Text style={styles.txt}>{products.length}</Text>
103                 </View>
104               )}
105             </View>
106           )}
107         }}
108       />
109     </Tab.Navigator>
110   );
111 }

```

```

104         })
105     </View>
106   ),
107   }}
108 </>
109 /* // Thạch Minh Luân - 22520827 */
110 <Tab.Screen
111   name="Profile"
112   component={ProfileStack}
113   options={{
114     headerShown: false,
115     tabBarIcon: ({ color }) => (
116       <FontAwesome name="user" size={24} color={color} />
117     ),
118   }}
119 </>
120 </Tab.Navigator>
121 );
122 };
123 // Thạch Minh Luân - 22520827
124 const styles = StyleSheet.create({
125   huyhieu: {
126     position: "absolute",
127     right: -6,
128     top: -3,
129     backgroundColor: "red",
130     borderRadius: 6,
131     width: 16,
132     height: 16,
133     justifyContent: "center",
134     alignItems: "center",
135   },
136   txt: {
137     color: "white",
138     fontSize: 12,
139     fontWeight: "bold",
140   },
141 });
142
143 export default MainBottom;
144

```

- CartProvider.js

```

navigations > CartProvider.js > ...
1  import React from 'react';
2  import { CartProvider } from '../context/CartContext';
3  import CartsScreen from '../pages/CartsScreen';
4  // Thạch Minh Luân - 22520827
5  const App = () => {
6    return (
7      <CartProvider>
8        <CartsScreen />
9      </CartProvider>
10    );
11  };
12
13  export default App;
14
```

- AppNavigator.js

```

navigations > AppNavigator.js > ...
1  import React, { useState, useContext } from "react";
2  import { NavigationContainer } from "@react-navigation/native";
3  import AuthStack from "../AuthStack";
4  import MainBottom from "../MainBottom";
5  import { AuthContext } from "../context/AuthContext";
6
7  // Thạch Minh Luân - 22520827
8  const AppNavigator = () => {
9    const { isAuth } = useContext(AuthContext);
10
11    return (
12      <NavigationContainer>
13        {isAuth ? <MainBottom /> : <AuthStack />}
14      </NavigationContainer>
15    );
16  };
17  export default AppNavigator;
18
```

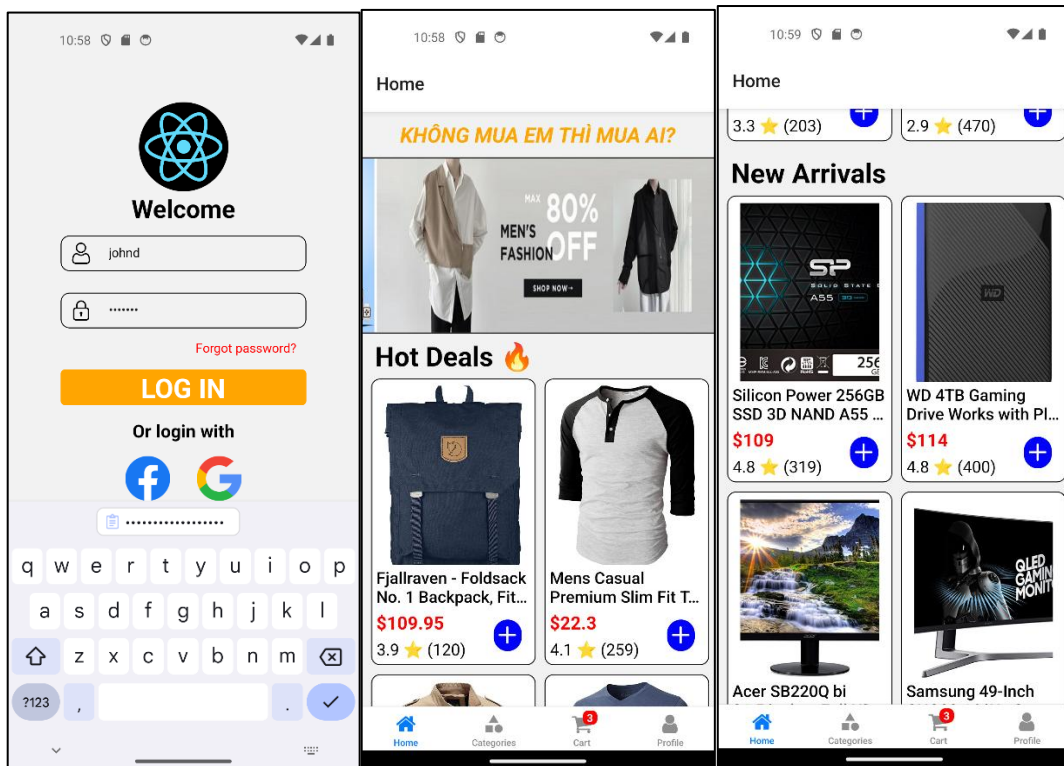
- App.js

```

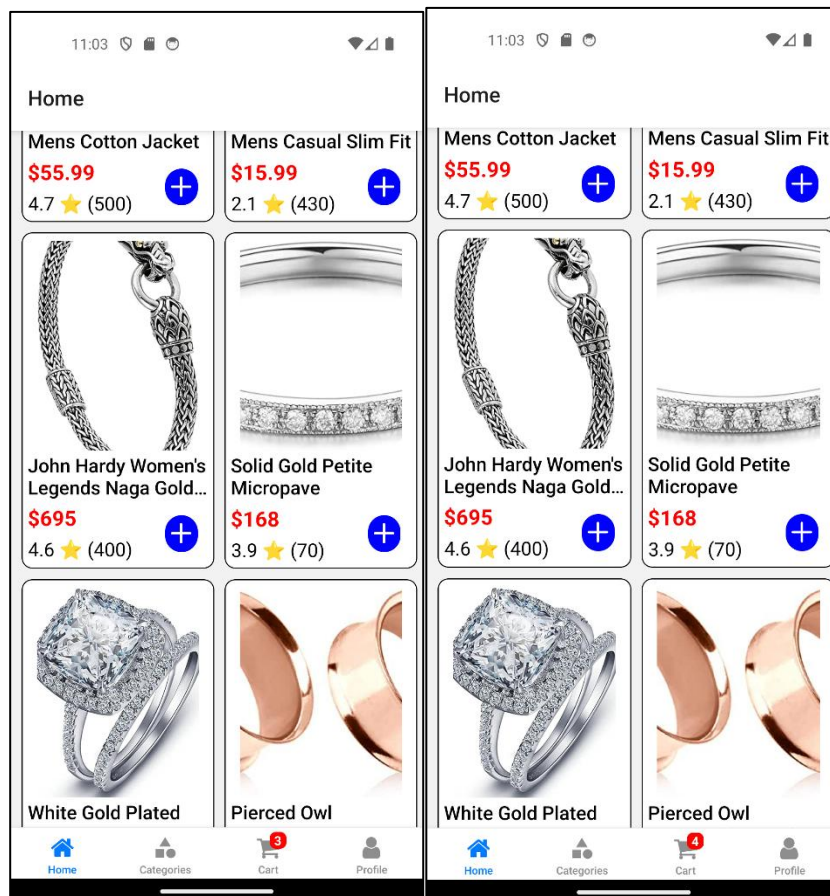
App.js > ...
1  import { AuthProvider } from "../context/AuthContext";
2  import { CartProvider } from "../context/CartContext";
3  import AppNavigator from "../navigations/AppNavigator";
4
5  // Thạch Minh Luân - 22520827
6  const App = () => {
7    return (
8      <AuthProvider>
9        <CartProvider>
10          <AppNavigator />
11        </CartProvider>
12      </AuthProvider>
13    );
14  };
15
16  export default App;
17
```

❖ Màn hình kết quả

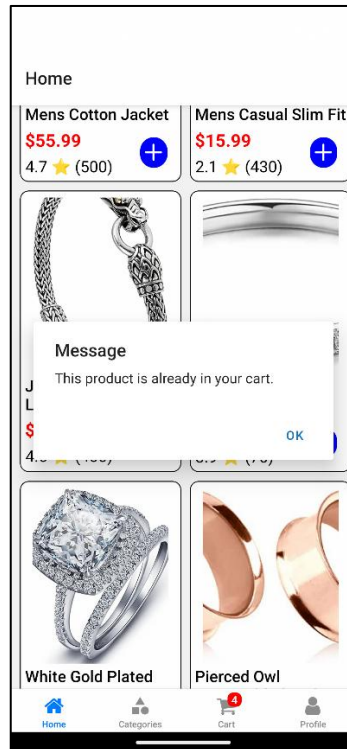
- Màn hình trang chủ với khẩu hiệu, biểu ngữ hình ảnh và hai danh sách sản phẩm.



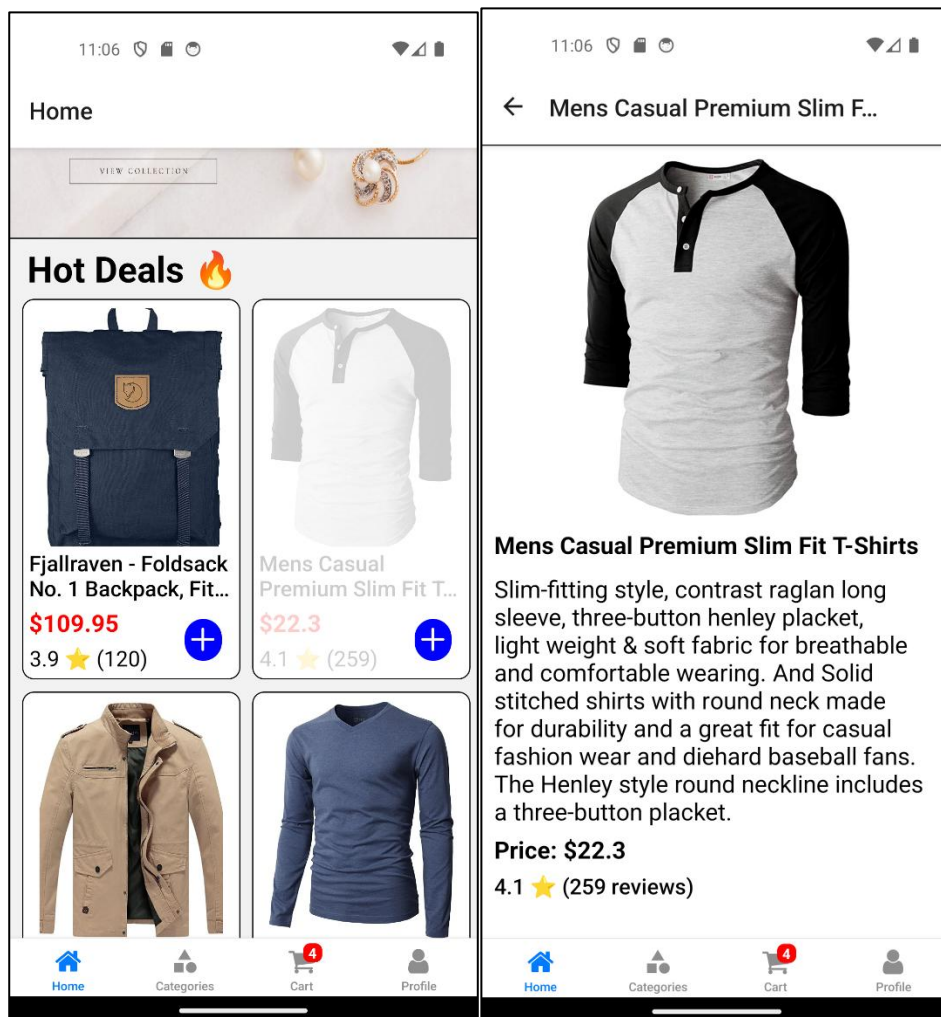
- Thêm sản phẩm vào giỏ hàng, giỏ hàng sẽ được cập nhật nếu đó là sản phẩm mới.



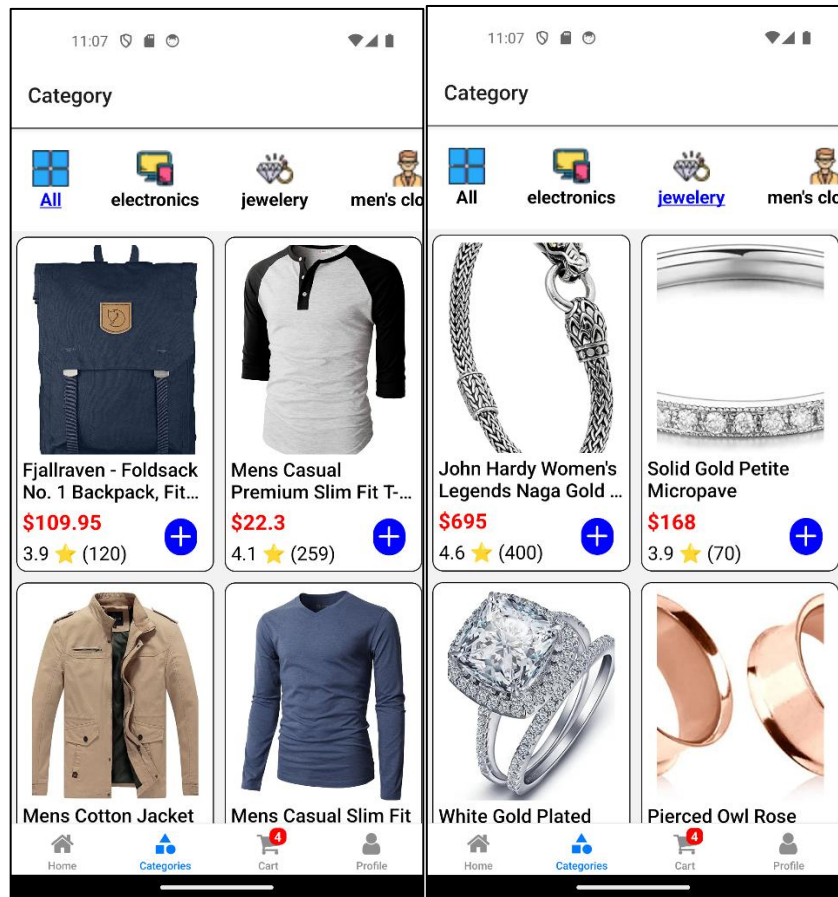
- Thêm sản phẩm vào giỏ hàng, hiển thị thông báo nếu đó là sản phẩm đã có.



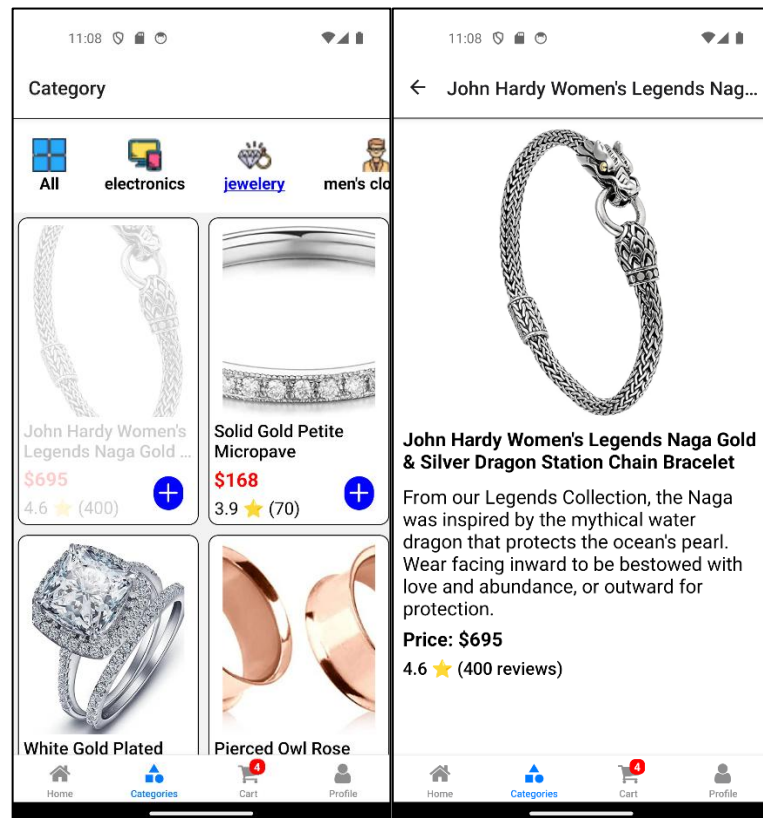
- Điều hướng đến màn hình chi tiết sản phẩm khi nhấn vào một sản phẩm.



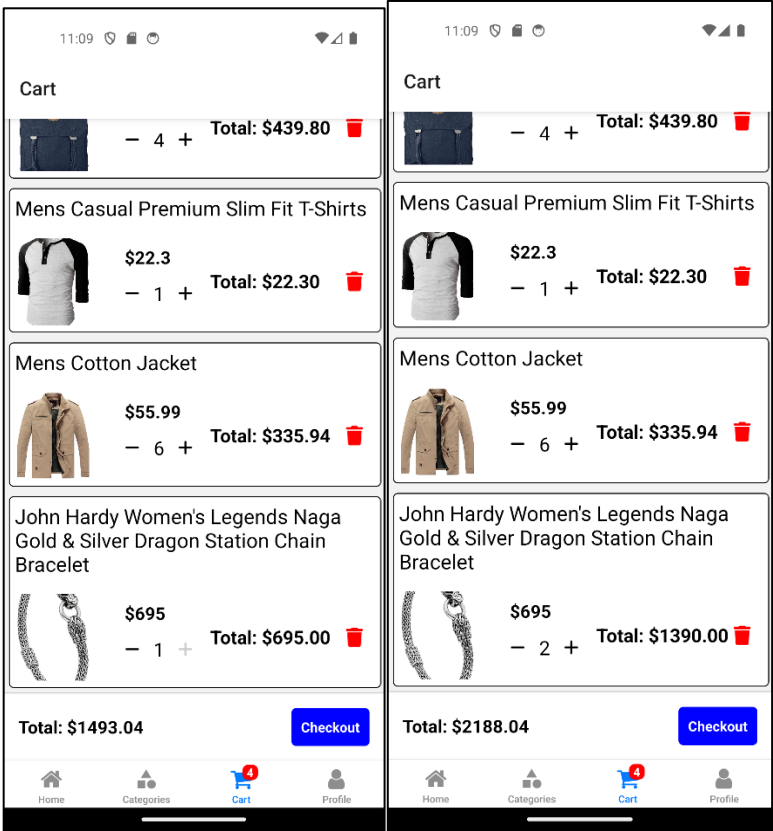
- Màn hình thể loại và danh sách các sản phẩm tương ứng khi chọn một loại.



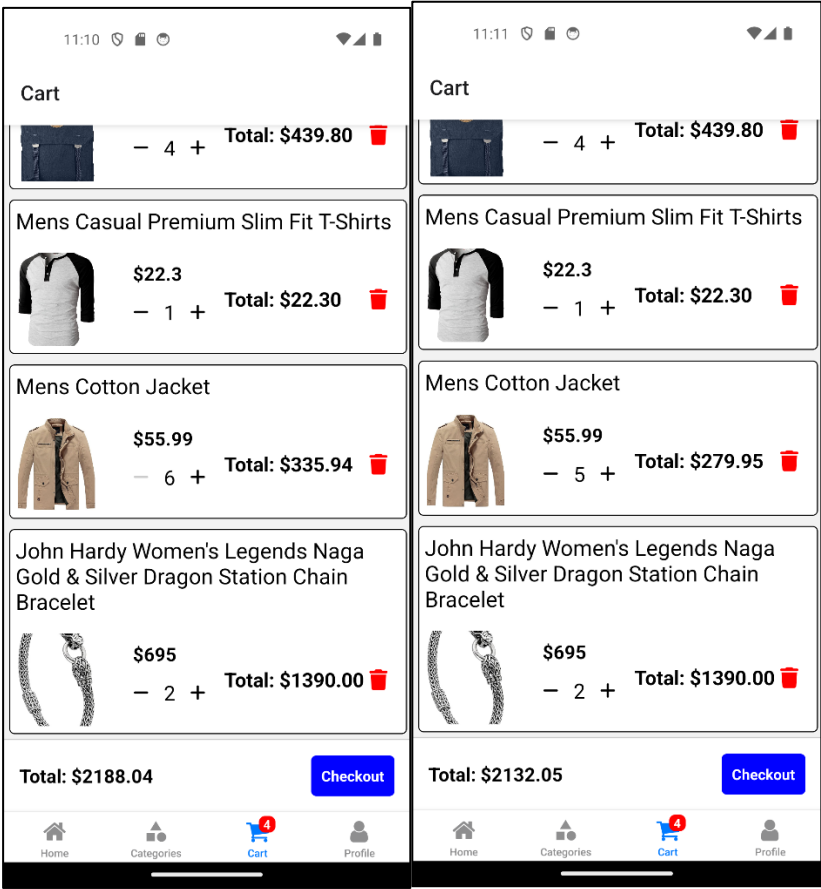
- Điều hướng đến màn hình chi tiết sản phẩm khi nhấn vào một sản phẩm.



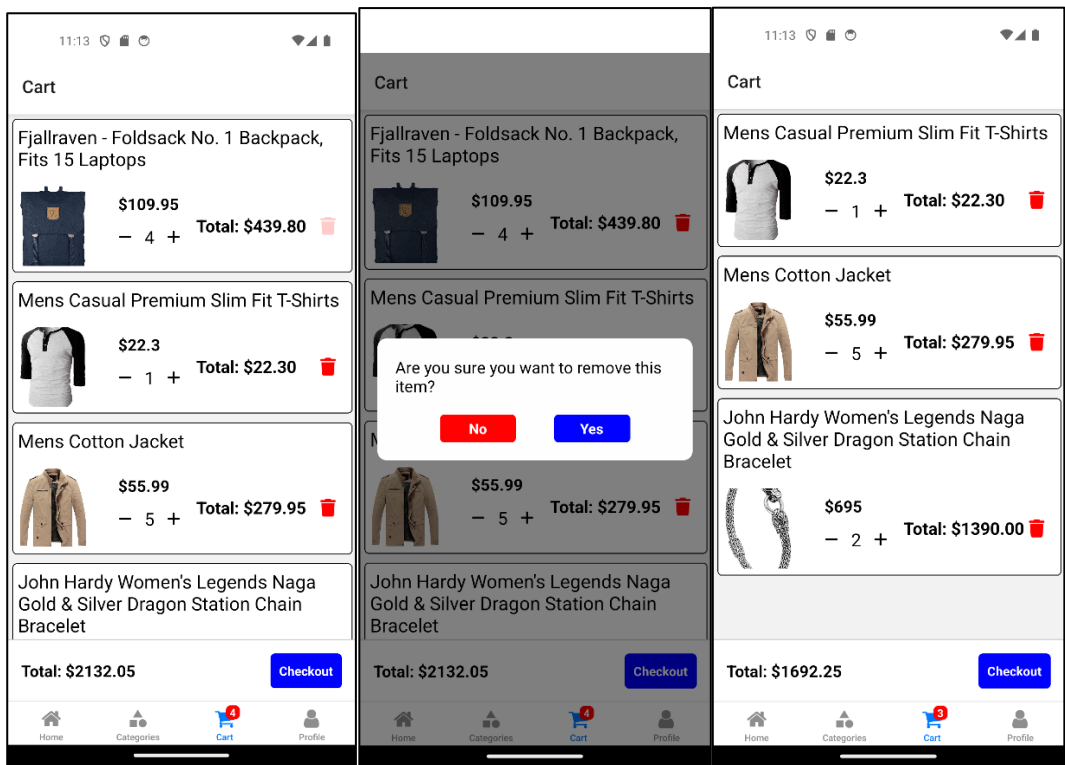
- Màn hình giỏ hàng và khi tăng số lượng một sản phẩm.



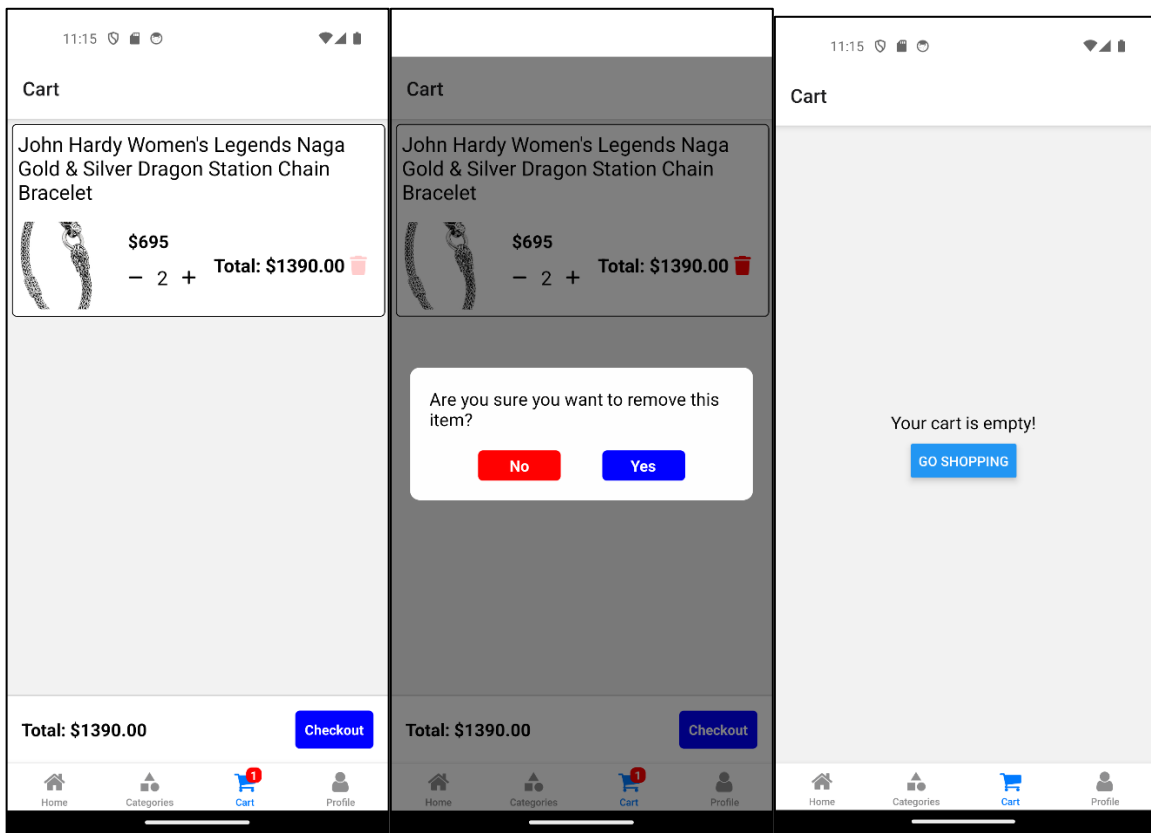
- Màn hình giỏ hàng và khi giảm số lượng một sản phẩm.



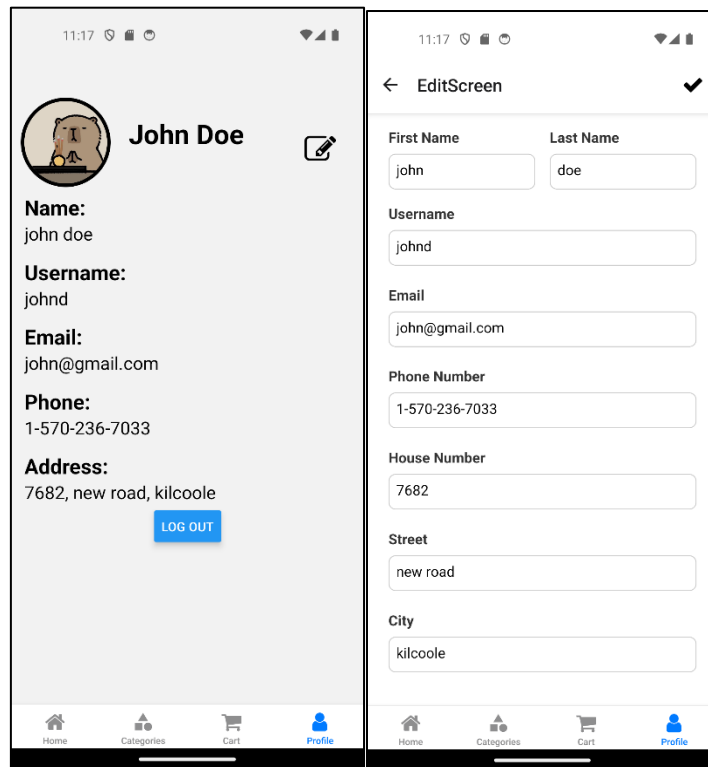
- Khi xóa một sản phẩm, hiển thị Modal và nếu chọn đồng ý, giỏ hàng được cập nhật.



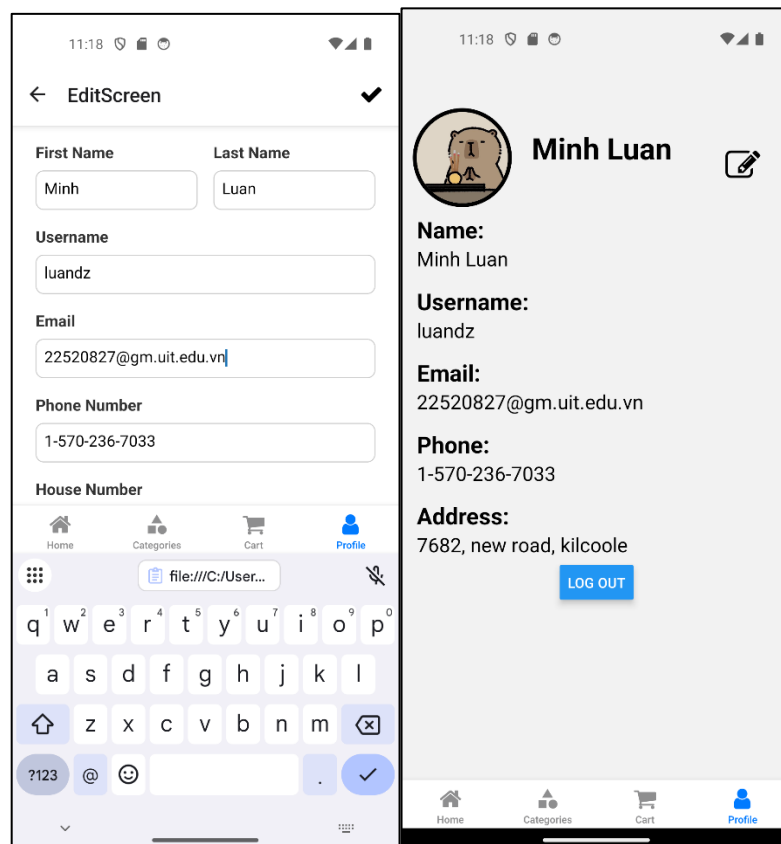
- Khi sản phẩm cuối cùng bị xóa, hiển thị một văn bản và một nút mua sắm.



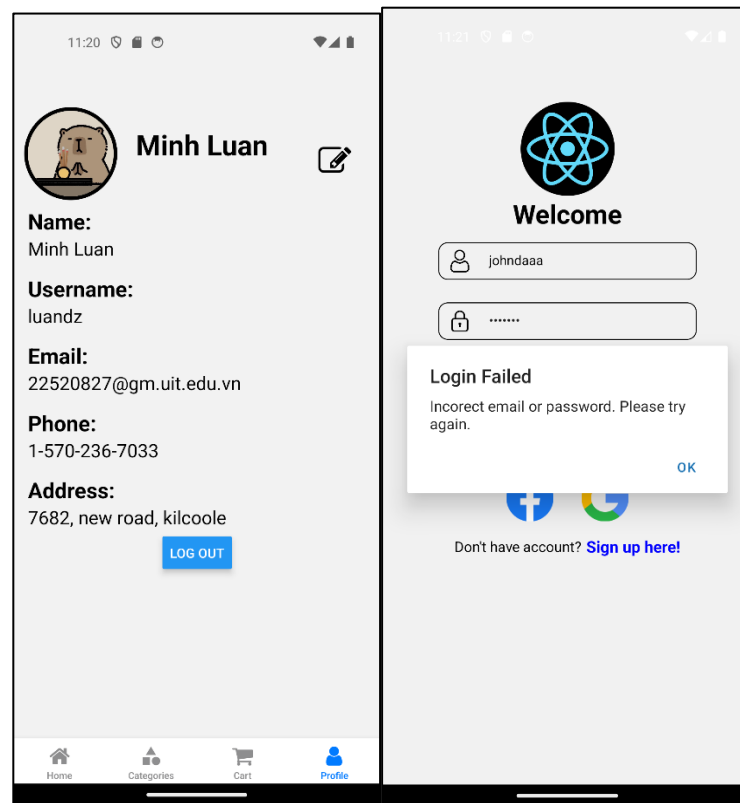
- Màn hình tài khoản. Khi nhấn vào biểu tượng chỉnh sửa, chuyển đến màn hình chỉnh sửa thông tin người dùng với các thông tin đã có.



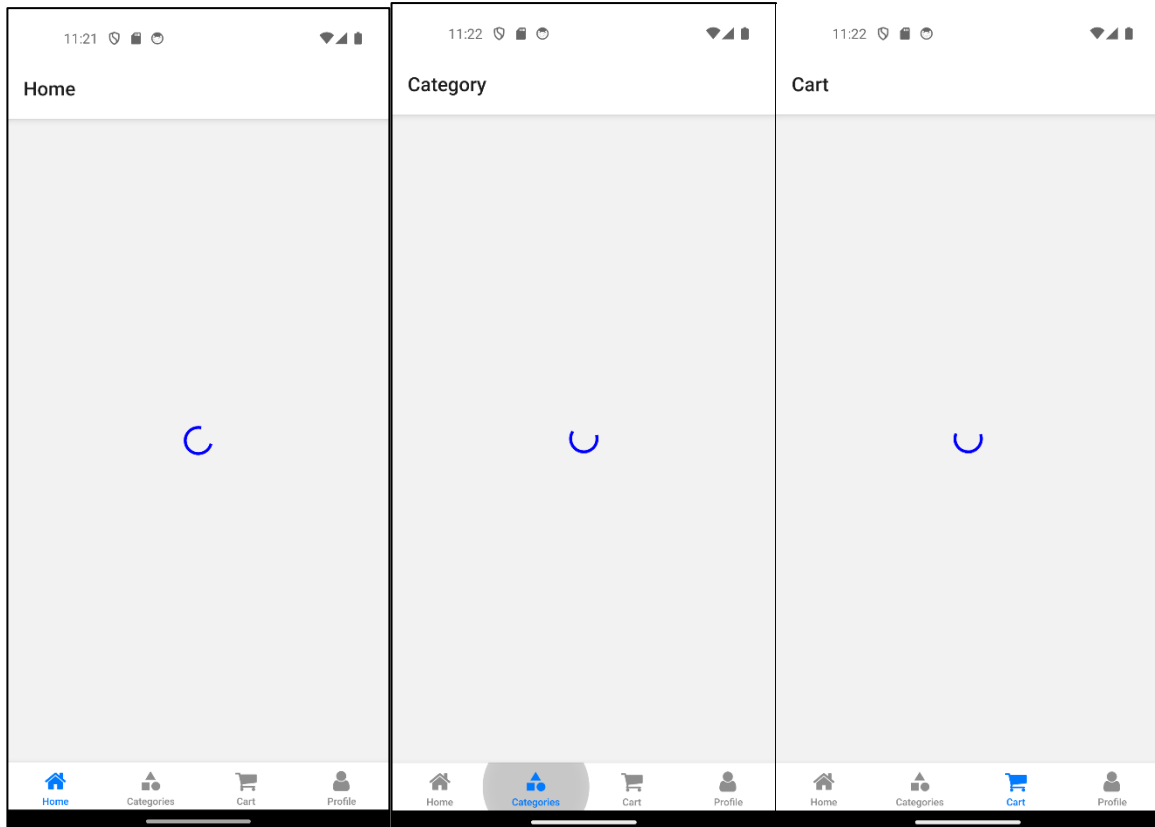
- Thực hiện chỉnh sửa và chọn cập nhật, các thông tin sẽ được thay đổi tương ứng.



- Đăng xuất khỏi ứng dụng và thông báo lỗi khi điền sai thông tin đăng nhập (Bên dưới là lỗi trả về từ server với mã lỗi 401).



- Các biểu tượng đang tải ở các màn hình khi chưa tìm nạp xong dữ liệu từ API.



IE307 – Công nghệ lập trình đa nền tảng cho ứng dụng di động

Link Google Drive video: [Video](#)

Link Github: [github](#)