

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
CHO ỨNG DỤNG DI ĐỘNG
LAB 01: COMPONENTS, LAYOUT, PROPS & STATE

GVHD: Phạm Nhật Duy

Lớp: IE307.P11

Sinh viên thực hiện:

Thạch Minh Luân

MSSV: 22520827

NHẬN XÉT CỦA GIÁO VIÊN HƯỚNG DẪN

This image shows a full page of primary-ruled paper. It features multiple horizontal rows, each defined by two parallel dotted lines. The rows are evenly spaced across the entire page, providing a guide for handwriting practice. There are no margins, text, or other markings present.

....., ngày.....tháng.....năm 20...

Người nhận xét

(Ký tên và ghi rõ họ tên)

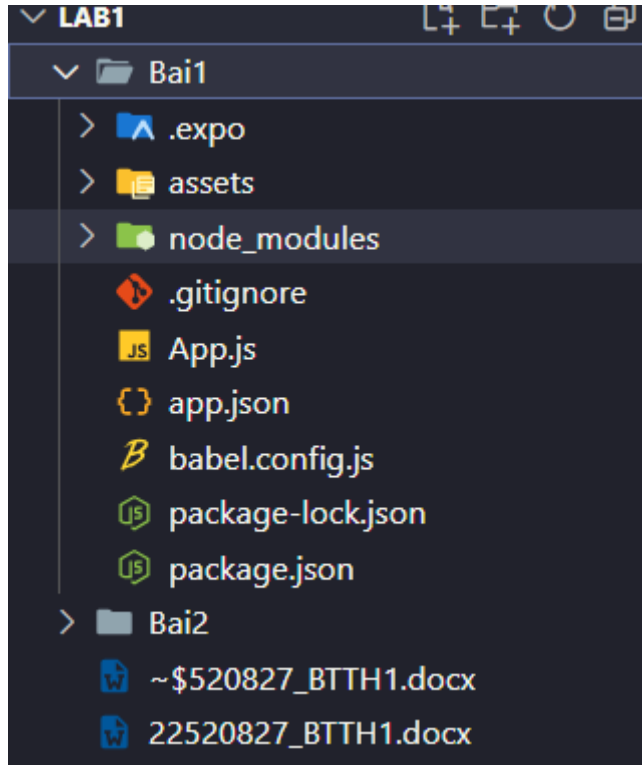
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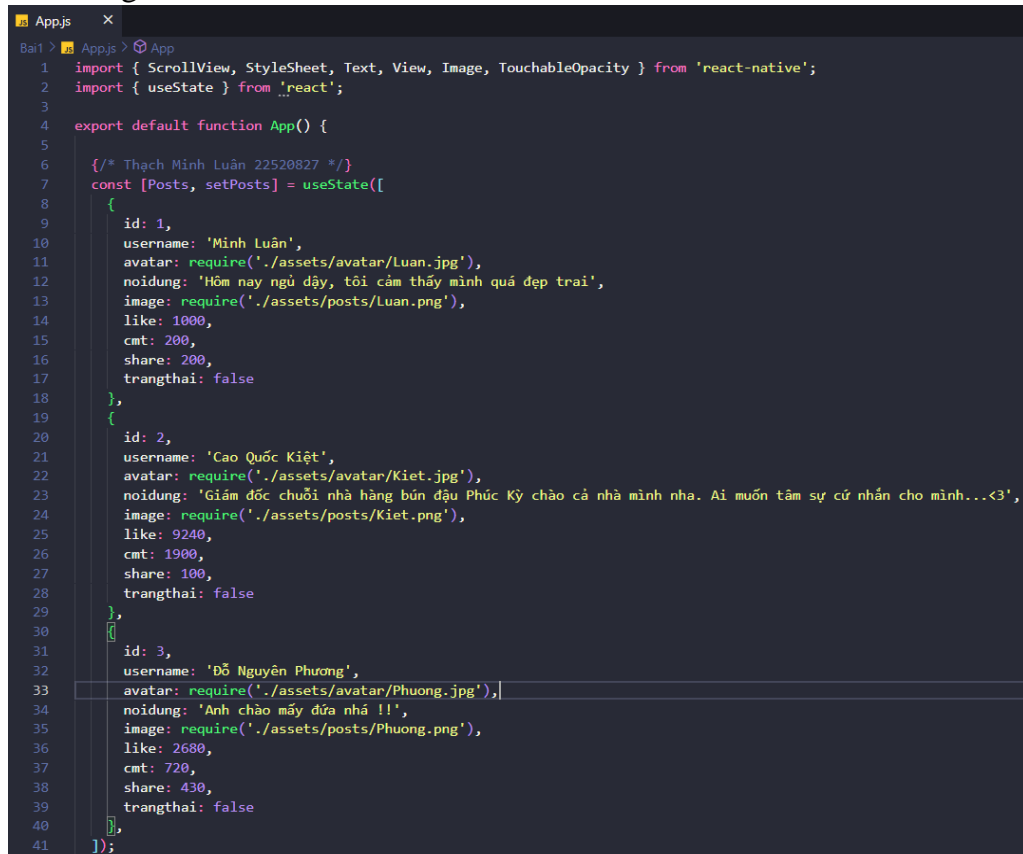
BÀI LÀM

Bài 1: Social Media Feed

- Cấu trúc các folder/file của dự án



- Nội dung code



```

43  { /* Thạch Minh Luân 22520827 */ }
44  const SuKienNutLike = (id) =>{
45    const CapNhatPost = Posts.map(post => post.id === id ? (
46      post.trangthai ? {...post, trangthai: false, like: post.like-1}
47      : {...post, trangthai: true, like: post.like+1}
48    ) : post);
49    setPosts(CapNhatPost);
50  }
51
52  const SuKienNutCmt = (id) =>{
53    const CapNhatPost = Posts.map(post => post.id === id
54      ? {...post, cmt: post.cmt+1}
55      : post
56    );
57    setPosts(CapNhatPost);
58  }
59
60  const SuKienNutShare = (id) =>{
61    const CapNhatPost = Posts.map(post => post.id === id
62      ? {...post, share: post.share+1}
63      : post
64    );
65    setPosts(CapNhatPost);
66  }
67
68  { /* Thạch Minh Luân 22520827 */ }
69  return (
70    <View style={styles.container}>
71      <ScrollView>
72        <View style={styles.viewTitle}>
73          <Image style={styles.logo} source={{uri: 'https://i0.wp.com/www.senviet.art/wp-content/uploads/edd/2021/12/dhuit.jpg?fit=700%2C525&ssl=1'}}/
74          <Text style={styles.textTitle}>UITers Feed</Text>
75        </View>
76        {Posts.map((item) => {
77          return (
78            // View mỗi bài đăng
79            <View key={item.id + ""} style={styles.containerPost}>
80              <View style={styles.post}>
81                { /* Thông tin người dùng */ }
82                <View style={styles.avt_user}>
83                  <Image style={styles.avatar} source={item.avatar}/>
84                  <Text style={styles.username}>{item.username}</Text>
85                </View>
86
87                { /* Thông tin bài đăng */ }
88                <View>
89                  <Text style={styles.noidung}>{item.noidung}</Text>
90                  <Image style={styles.image} source={item.image}/>
91                </View>
92
93                { /* Số lượng tương tác */ }
94                <View style={styles.reactContainer}>
95                  <View style={styles.sluongReact}>
96                    <Text>{item.like} Likes </Text>
97                  </View>
98                  <View style={styles.sluongReact}>
99                    <Text>{item.cmt} Comments</Text>
100                  </View>
101                  <View style={styles.sluongReact}>
102                    <Text>{item.share} Shares</Text>
103                  </View>
104                </View>

```

```

Bail > Appjs > styles > containerPost
4   export default function App() {
76   {Posts.map((item) => {
106       {/* Line ngang */}
107       <View style={styles.lineStyle}></View>
108       {/* Thạch Minh Luân 22520827 */}
109       {/* Các nút tương tác */}
110       <View style={styles.reactContainer}>
111         <TouchableOpacity style={styles.btnStyle} onPress={() => SuKienNutLike(item.id)}>
112           <Image source={item.trangthai ? require('./assets/icon/thumb-up.png') : require('./assets/icon/like.png')} style={styles.icon}/>
113           <Text style={styles.textIcon}>Like</Text>
114         </TouchableOpacity>
115
116         <TouchableOpacity style={styles.btnStyle} onPress={() => SuKienNutCmt(item.id)}>
117           <Image source={require('./assets/icon/comment.png')} style={styles.icon}/>
118           <Text style={styles.textIcon}>Comment</Text>
119         </TouchableOpacity>
120
121         <TouchableOpacity style={styles.btnStyle} onPress={() => SuKienNutShare(item.id)}>
122           <Image source={require('./assets/icon/share.png')} style={styles.icon}/>
123           <Text style={styles.textIcon}>share</Text>
124         </TouchableOpacity>
125       </View>
126     </View>
127   </View>
128 </View>
129 )
130 }
131 }}
132 </ScrollView>
133 </View>
134 );
135 }

```

```
136  { /* Thạch Minh Luân 22520827 */ }
137  const styles = StyleSheet.create({
138    container: {
139      flex: 1,
140      backgroundColor: '#ffffff',
141      marginTop: 50
142    },
143    containerPost: {
144      flex: 1,
145      backgroundColor: '#ffffff',
146    },
147    viewTitle: {
148      width: '100%',
149      height: '3%',
150      backgroundColor: "#EFEFEF",
151      flexDirection: 'row',
152      borderColor: '#306CFF',
153      borderWidth: 1
154    },
155    logo: {
156      width: '30%',
157      height: '100%'
158    },
159    textTitle: {
160      width: '70%',
161      height: '100%',
162      justifyContent: 'center',
163      alignItems: 'center',
164      color: "#306CFF",
165      fontSize: 32,
166      marginBottom: 4,
167      fontWeight: "bold",
168      paddingTop: 8,
169      paddingStart: 20
170    },
171    post:{
172      margin: 10,
173      backgroundColor: "#EFEFEF",
174      borderRadius: 10,
175      borderColor: '#306CFF',
176      borderWidth: 1
177    },
178  });
```

```
137  const styles = StyleSheet.create({
178    avt_user:{
179      flexDirection: "row",
180      margin: 5
181    },
182    avatar: {
183      width: 60,
184      height: 60,
185      borderRadius: 50
186    },
187    username: {
188      fontSize: 23,
189      fontWeight: 'bold',
190      alignItems: "center",
191      padding: 12
192    },
193    noidung: {
194      fontSize: 22,
195      marginStart: 12
196    },
197    image: {
198      width: 'auto',
199      height: 400,
200      borderRadius: 10,
201      marginHorizontal: 7,
202      marginVertical: 4
203    },
204    lineStyle: {
205      borderWidth: 0.5,
206      borderColor: "grey",
207      marginHorizontal: 10,
208      marginVertical: 4
209    },
210    reactContainer: {
211      flexDirection: "row",
212      flex: 1,
213      justifyContent: 'space-between',
214      alignItems: 'center',
215      marginHorizontal: 10,
216      marginVertical: 5
217    },
```

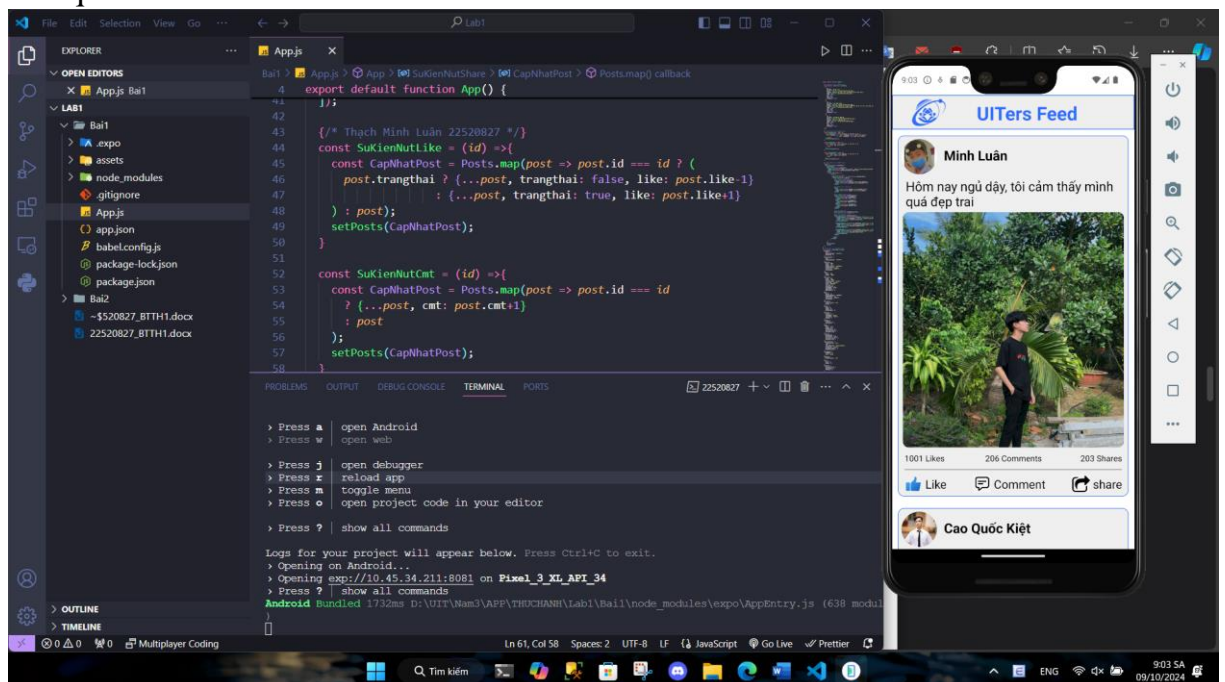


```

218     sluongReact:{
219       fontSize: 16,
220       color: "grey"
221     },
222     btnStyle:{
223       flexDirection: "row"
224     },
225     icon: {
226       width: 30,
227       height: 30
228     },
229     textIcon: {
230       marginVertical: 2,
231       marginStart: 5,
232       fontSize: 20
233     }
234
235   });
236

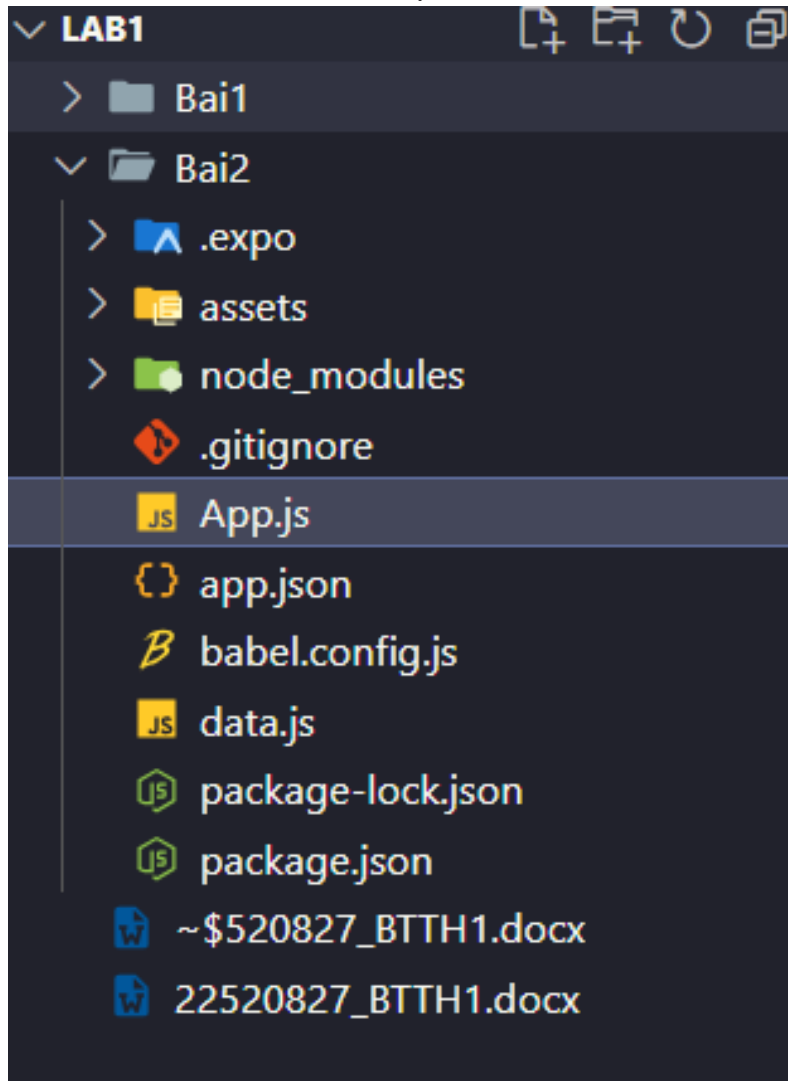
```

- Kết quả



Bài 2: Workouts, Fruits and Vegetables

- Cấu trúc các folder/file của dự án



- Nội dung code
 - File data.js

```
data.js
Bai2 > JS data.js > ...
1  export const fruits_vegetables = [
2    {
3      title: 'Fruits',
4      url: 'https://cdn-icons-png.flaticon.com/512/1625/1625099.png',
5      data: ['Banana', 'Orange', 'Grapes', 'Mango', 'Pineapple'],
6    },
7    {
8      title: 'Vegetables',
9      url: 'https://cdn-icons-png.flaticon.com/512/2153/2153788.png',
10     data: ['Carrot', 'Broccoli', 'Spinach', 'Beets & Beet Greens', 'Kale'],
11   },
12 ];
13
14 export const workouts = [
15   { id: '1', type: 'Push-ups' },
16   { id: '2', type: 'Squats' },
17   { id: '3', type: 'Planks' },
18   { id: '4', type: 'Groner' },
19   { id: '5', type: 'Spider Crawl' },
20   { id: '6', type: 'Glute Bridge' },
21   { id: '7', type: 'Dumbbell rows' },
22   { id: '8', type: 'Burpees' },
23   { id: '9', type: 'Standing Long Jump' },
24   { id: '10', type: 'Lunges' },
25 ];
```

- File App.js

```
App.js
Bai2 > JS App.js > ...
1  import { StatusBar } from 'expo-status-bar';
2  import { useState } from 'react';
3  import { fruits_vegetables, workouts } from './data';
4  import { StyleSheet, Button, Text, View, FlatList, ImageBackground, SectionList, Image } from 'react-native';
5
6  {/* Thach Minh Luân 22520827 */}
7  export default function App() {
8    const [selectedItems, setSelectedItems] = useState([]);
9
10    const handleSelect = (item) => {
11      setSelectedItems(prev => [...prev, item]);
12    };
13
14    const handleDeselect = (item) => {
15      setSelectedItems(prev => prev.filter(i => i !== item));
16    };
17  }
```

```

17  { /* Thạch Minh Luân 22520827 */}
18  return (
19    <View style={styles.container}>
20      <StatusBar style="auto" />
21      { /* FlatList */}
22      <View style={styles.viewAlist}>
23        { /* title */}
24        <View style={styles.viewTitle}>
25          <Text style={styles.title}>FlatList - Workouts</Text>
26        </View>
27
28        { /* FlatList */}
29        <ImageBackground source={require('./assets/workouts.jpg')}
30          style={styles.imgBackground}>
31          <View style={styles.viewOnImgbgbackground}>
32            <FlatList
33              keyExtractor={({item}) => item.id}
34              data={workouts}
35              renderItem={({item}) => (
36                <View style={styles.holder}>
37                  <Text style={styles.textType}>{item.type}</Text>
38                  <View style={styles.list}>
39                    {selectedItems.includes(item.type) ? (
40                      <Button title="DESELECT" onPress={() => handleDeselect(item.type)} />
41                    ) : (
42                      <Button title="SELECT" onPress={() => handleSelect(item.type)} />
43                    )}
44                  </View>
45                </View>
46              )}
47            />
48          </View>
49          </ImageBackground>
50        </View>

```

```

52     { /* Thạch Minh Luân 22520827 */ }
53     <View style={styles.viewAlist}>
54         { /* title */ }
55         <View style={styles.viewTitle}>
56             <Text style={styles.title}>SectionList - Fruits & Vergetables</Text>
57         </View>
58         { /* SectionList */ }
59         <ImageBackground source={require('./assets/vergetables.jpg')}
60             style={styles.imgBackground}>
61             <View style={styles.viewOnImgbackground}>
62                 <SectionList
63                     sections={fruits_vegetables}
64                     renderItem={({item}) => (
65                         <View style={styles.holder}>
66                             <Text style={styles.textType}>{item}</Text>
67                             <View style={styles.list}>
68                                 {selectedItems.includes(item) ? (
69                                     <Button title="DESELECT" onPress={() => handleDeselect(item)} />
70                                 ) : (
71                                     <Button title="SELECT" onPress={() => handleSelect(item)} />
72                                 )}
73                             </View>
74                         </View>
75                     )}
76                     keyExtractor={({item, index}) => item + index}
77                     renderSectionHeader={({section: { title, url }} => (
78                         <View style={styles.sectionHeader}>
79                             <Image source={{ uri: url }} style={styles.sectionImage} />
80                             <Text style={styles.sectionHeaderText}>{title}</Text>
81                         </View>
82                     )}
83                 />
84                 { /* Thạch Minh Luân 22520827 */ }
85             </View>
86         </ImageBackground>
87     </View>

89     { /* Selected */ }
90     <View style={styles.selectedContainer}>
91         { /* Thạch Minh Luân 22520827 */ }
92         <Text style={styles.titleSelected}>SELECTED EXERCISES</Text>
93         <View style={styles.selectedView}>
94             <Text style={styles.listSelected}>{selectedItems.join(', ')}</Text>
95         </View>
96     </View>
97 </View>
98 );
99 }

```

```
100  { /* Thạch Minh Luân 22520827 */ }
101  const styles = StyleSheet.create({
102    container: {
103      flex: 1,
104      backgroundColor: '#fff',
105      marginTop: '12%',
106      alignItems: 'center',
107    },
108    title: {
109      color: '#5300eb',
110      width: '100%',
111      height: '100%',
112      fontSize: 22,
113      fontWeight: "bold",
114      textAlign: "center",
115      alignItems: 'center',
116      justifyContent: 'center',
117    },
118    titleSelected: {
119      color: '#FF0000',
120      width: '100%',
121      height: '13%',
122      fontSize: 22,
123      fontWeight: "bold",
124      textAlign: "center",
125      alignItems: 'center',
126      justifyContent: 'center',
127    },
128    textType: {
129      width: '65%',
130      height: '100%',
131      fontSize: 22,
132      fontWeight: "500",
133      textAlign: "left",
134      textAlignVertical: "center",
135      alignItems: "center",
136      paddingStart: 7,
137    },
```

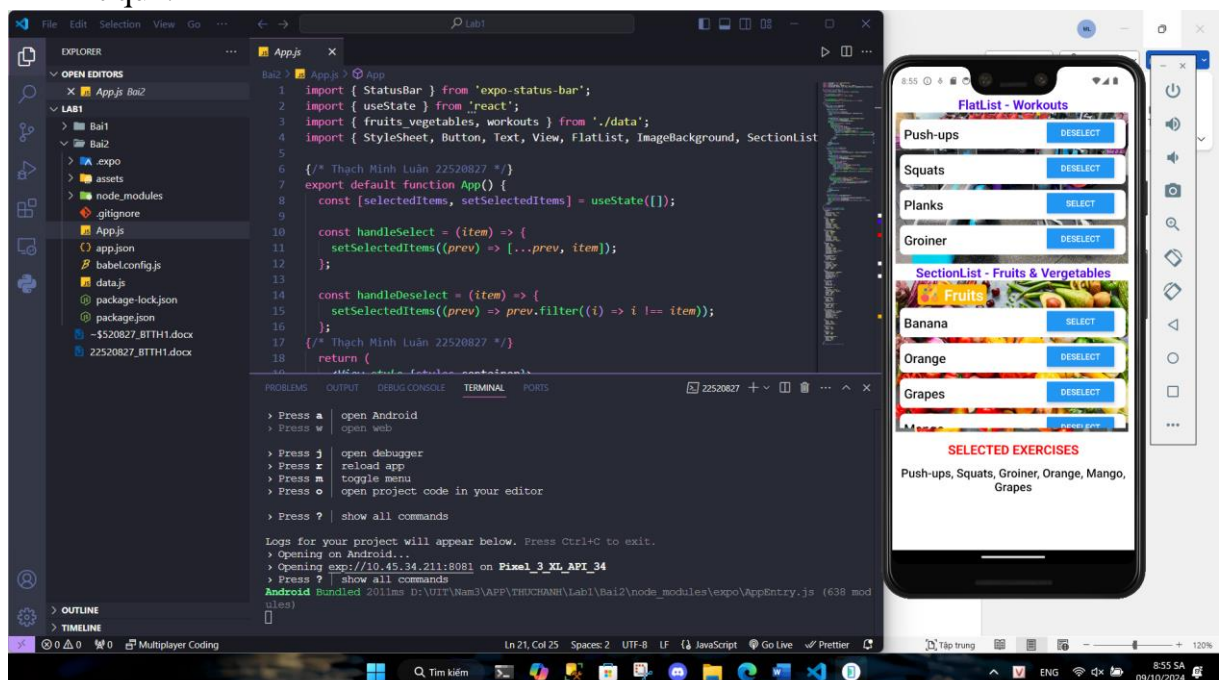
```
138     sectionHeaderText: {  
139         fontSize: 26,  
140         fontWeight: "600",  
141         color: "#FFFFFF"  
142     },  
143     listSelected: {  
144         fontSize: 20,  
145         textAlign: "center",  
146         fontWeight: "500",  
147         height: '100%',  
148         width: '100%'  
149     },  
150     holder: {  
151         backgroundColor: "#FFFFFF",  
152         flexDirection: "row",  
153         marginVertical: 5,  
154         marginHorizontal: 10,  
155         borderRadius: 8,  
156         height: 50  
157     },  
158     sectionImage: {  
159         width: 30,  
160         height: 30,  
161         marginRight: 10,  
162     },  
163     imgBackground: {  
164         flex: 1,  
165         alignItems: 'center',  
166         justifyContent: 'center',  
167         height: '100%',  
168         width: '98%',  
169         marginStart: 6  
170     },  
171     selectedView: {  
172         width: '100%',  
173         height: '87%',  
174         marginTop: 15  
175     },
```

```

176     selectedContainer: {
177       height: '26%',
178       width: '100%',
179       marginTop: 15
180     },
181     sectionHeader: {
182       backgroundColor: "#fcb900",
183       alignSelf: "flex-start",
184       marginStart: 40,
185       paddingHorizontal: 5,
186       borderRadius: 5,
187       flexDirection: 'row'
188     },
189     list: {
190       width: '30%',
191       height: '100%',
192       paddingVertical: 5
193     },
194     viewTitle: {
195       width: '100%',
196       height: '10%',
197     },
198     viewAList: {
199       height: '37%',
200       width: '100%'
201     },
202     viewOnImgbackground: {
203       width: '100%',
204       height: '95%',
205       marginEnd: 5
206     }
207   });
208   [/* Thạch Minh Luân 22520827 */]

```

- Kết quả:



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

Link Google Drive video: [Video](#)

Link github: [Lab1](#)