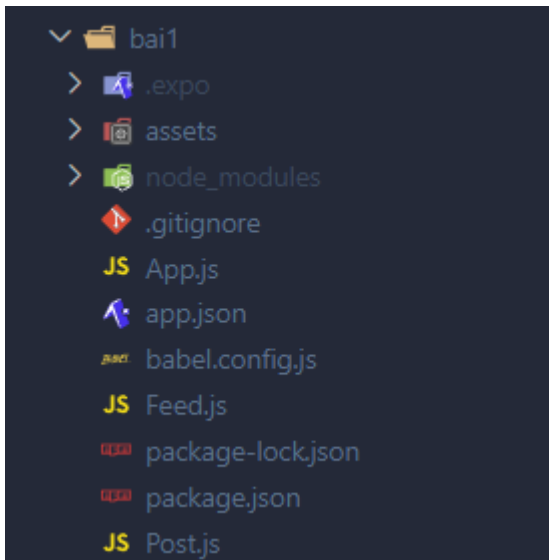


LAB01

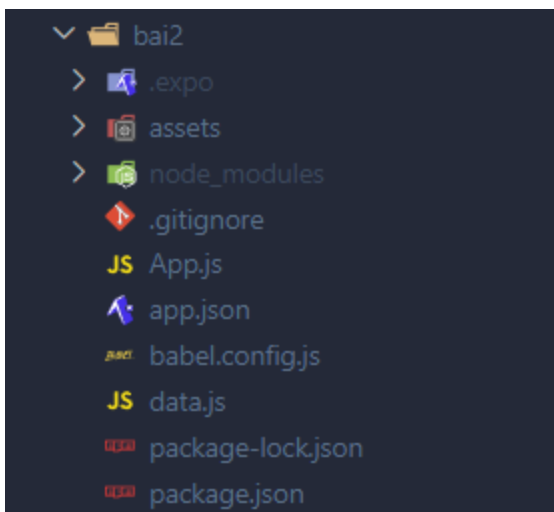
Công nghệ lập trình đa nền tảng cho ứng dụng di động

I) Cấu trúc Folder:

Bài 1:



Bài 2:



22520767 Nguyễn Cường Lĩnh

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II) Nội dung code và màn hình kết quả:

Code bài 1:

```
import { StatusBar } from 'expo-status-bar';
import { ScrollView, Image, StyleSheet, Text, View } from 'react-native';
import Feed from './feed';

// https://expo.io/@react-native/learn
export default function App() {
  return (
    <ScrollView style={styles.container}>
      <StatusBar backgroundColor="white" />
      <View style={styles.title}>
        <Text style={styles.titleText}>
          Social Media Feed
        </Text>
      </View>
    </ScrollView>
  );
}

const styles = StyleSheet.create({
  container: {
    flex: 1,
    flex-direction: 'column',
    backgroundColor: '#F2F2F7',
  },
  title: {
    backgroundColor: '#428782',
    height: 80,
    justifyContent: 'center',
    alignItems: 'center',
  },
  titleText: {
    fontSize: 20,
    padding: 10,
    color: 'white',
    fontWeight: 'bold',
  },
});
```

```
import { StatusBar } from 'expo-status-bar';
import { ScrollView, Image, StyleSheet, Text, View } from 'react-native';
import Feed from './feed';

// https://expo.io/@react-native/learn
export default function App() {
  return (
    <ScrollView style={styles.container}>
      <StatusBar backgroundColor="white" />
      <View style={styles.title}>
        <Text style={styles.titleText}>
          Social Media Feed
        </Text>
      </View>
    </ScrollView>
  );
}

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  title: {
    backgroundColor: '#428782',
    height: 80,
    justifyContent: 'center',
    alignItems: 'center',
  },
  titleText: {
    fontSize: 20,
    padding: 10,
    color: 'white',
    fontWeight: 'bold',
  },
});
```

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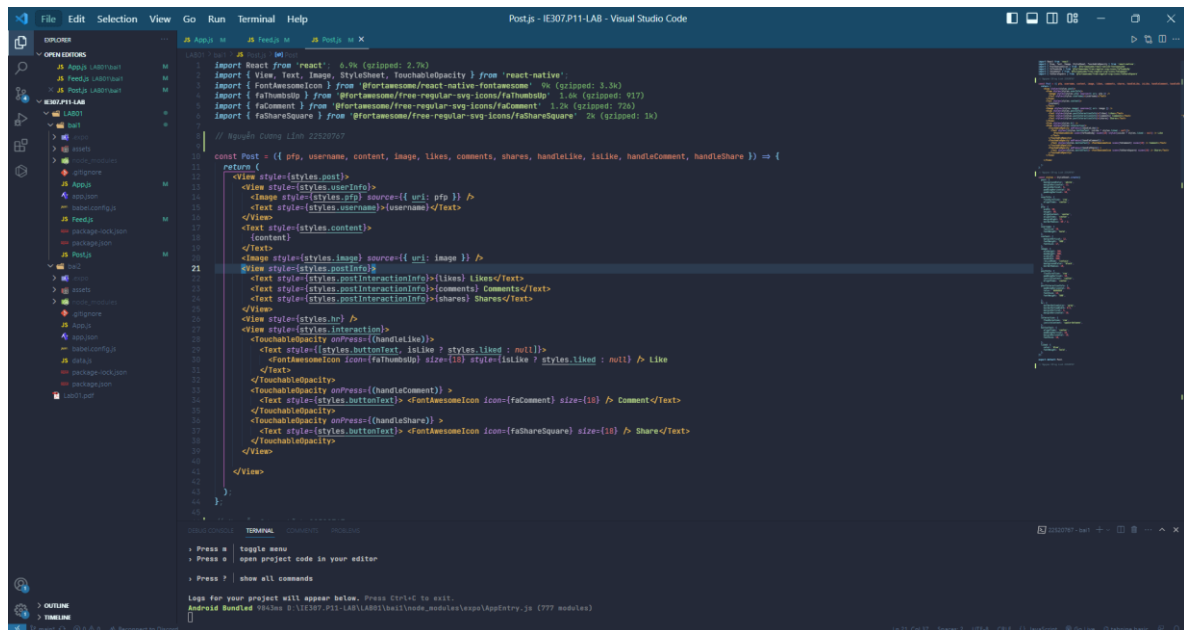
Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.P11

The image shows a Visual Studio Code editor window with a React Native project. The Explorer sidebar on the left displays the project structure, including folders like 'android', 'ios', 'src', and 'components'. The main editor area shows the 'App.js' file, which contains a functional component 'Feed'. This component uses the 'useState' hook to manage a list of posts. The 'Feed' component renders a list of posts, each with details like 'username', 'content', 'image', 'likes', and 'comments'. The 'App.js' file is highlighted in the Explorer sidebar. The bottom status bar shows the project is running on an Android emulator. The terminal at the bottom displays the command 'npx expo start' and the output 'Android Bundled'.

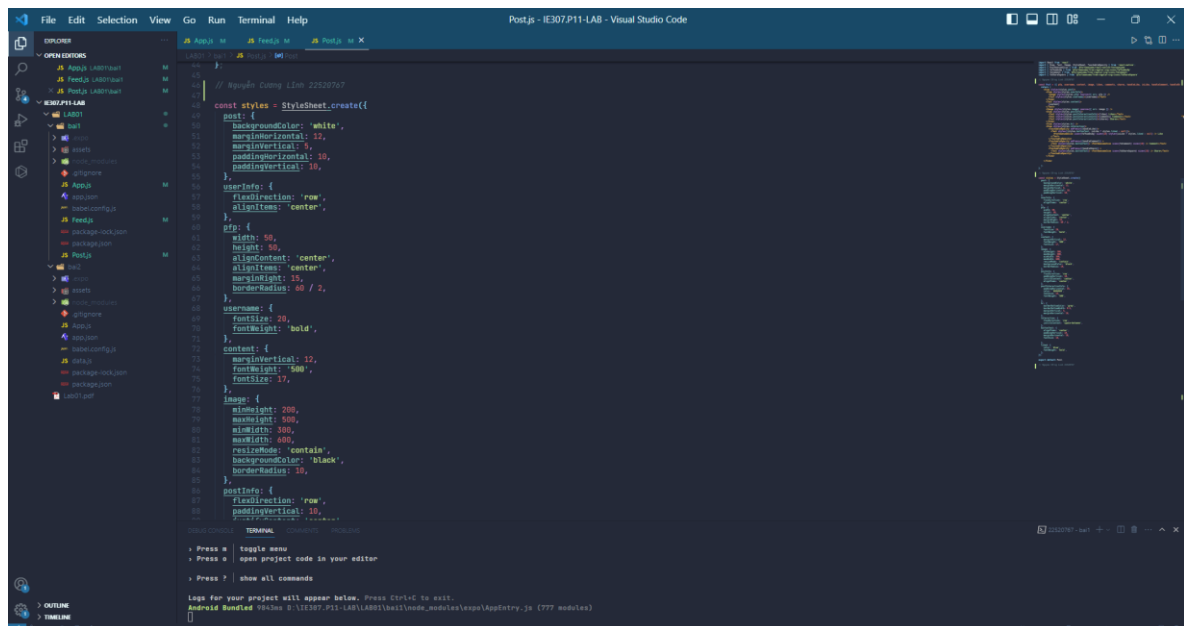
The image shows a screenshot of the Visual Studio Code editor interface. The main editor window displays the 'Feed.js' file, which is part of a project structure shown in the Explorer sidebar on the left. The file contains a REST API for a social media feed, with endpoints for likes, comments, and shares. The code is written in JavaScript and uses the 'restify' library for handling HTTP requests. The interface includes a sidebar with Explorer, Search, and Run and Debug views. The bottom status bar shows the Android Studio integration, indicating the project is an Android application. The status bar also displays the current file path and the active editor window.

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Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.P11



The screenshot shows the Visual Studio Code editor with a project named 'Post.js - IE307/P11-LAB - Visual Studio Code'. The file explorer on the left shows a directory structure with files like 'App.js', 'Post.js', and 'index.js'. The main editor displays the code for 'Post.js', which is a React Native component for displaying a post. The code includes imports for React, View, Text, Image, StyleSheet, TouchableOpacity, and various icons from the 'react-native' and 'react-native-vector-icons' libraries. It defines a 'Post' component that takes props like 'pfp', 'username', 'content', 'image', 'likes', 'comments', 'shares', 'handleLike', 'isLike', 'handleComment', and 'handleShare'. The component uses a 'StyleSheet.create' function to define styles for the post card, including background color, padding, margin, and text styles. The render method returns a JSX element that displays the post information, including the user's profile picture, name, content, image, and interaction buttons for likes, comments, and shares.



The screenshot shows the Visual Studio Code editor with the same project as the first image. The file explorer on the left shows the same directory structure. The main editor displays the code for 'Post.js', which is a React Native component for displaying a post. The code includes imports for React, View, Text, Image, StyleSheet, TouchableOpacity, and various icons from the 'react-native' and 'react-native-vector-icons' libraries. It defines a 'Post' component that takes props like 'pfp', 'username', 'content', 'image', 'likes', 'comments', 'shares', 'handleLike', 'isLike', 'handleComment', and 'handleShare'. The component uses a 'StyleSheet.create' function to define styles for the post card, including background color, padding, margin, and text styles. The render method returns a JSX element that displays the post information, including the user's profile picture, name, content, image, and interaction buttons for likes, comments, and shares.



```
import React from 'react';
import { StyleSheet, Text, Image, TouchableOpacity, View } from 'react-native';
import { useNavigation } from '@react-navigation/native';

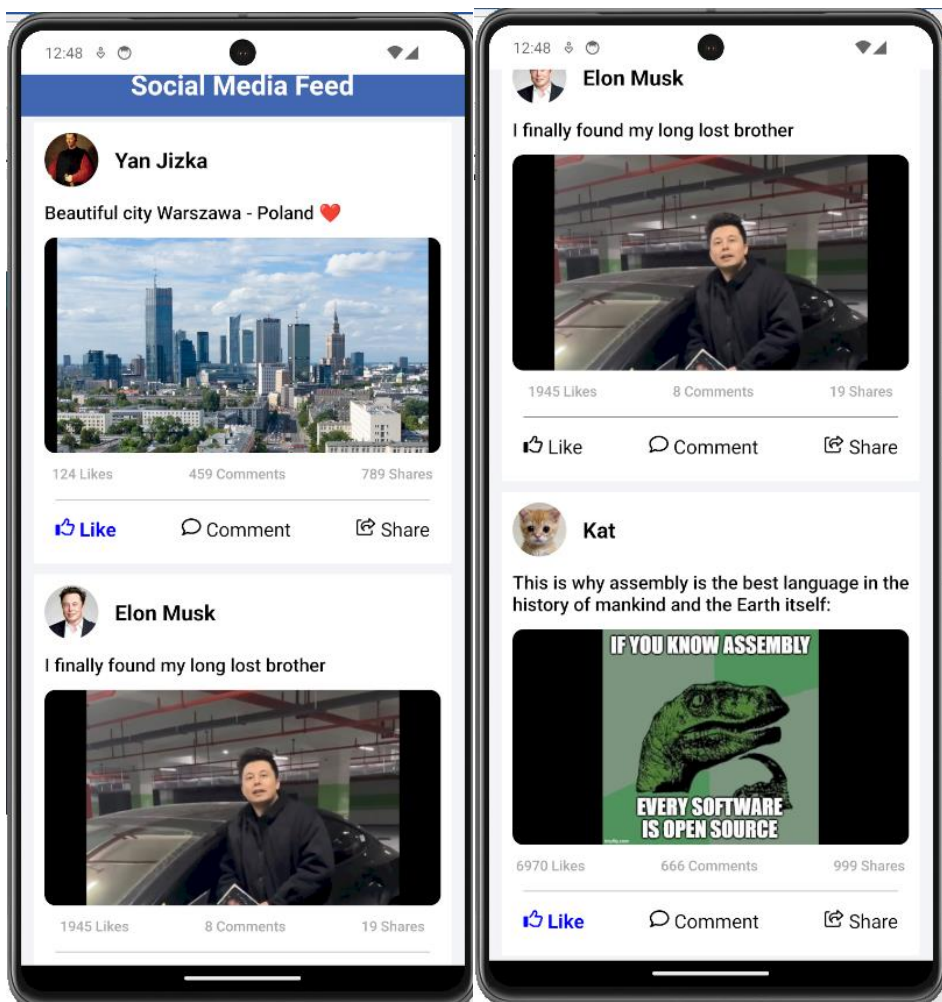
const Post = ({ user, text, image, likes, comments, shares }) => {
  const navigation = useNavigation();

  return (
    <View style={styles.container}>
      <Image alt={user.avatar} style={styles.avatar} />
      <Text style={styles.userName}>{user.name}</Text>
      <Text style={styles.text}>{text}</Text>
      <Image alt={image} style={styles.image} />
      <View style={styles.interaction}>
        <Text style={styles.likes}>{likes}</Text>
        <Text style={styles.comments}>{comments}</Text>
        <Text style={styles.shares}>{shares}</Text>
      </View>
    </View>
  );
};

const styles = StyleSheet.create({
  container: {
    padding: 10,
    margin: 10,
    border: 1px solid '#ccc',
    borderRadius: 10,
  },
  avatar: {
    width: 40px,
    height: 40px,
    borderRadius: 20px,
  },
  userName: {
    color: 'blue',
    font-weight: 'bold',
  },
  text: {
    color: 'blue',
  },
  image: {
    width: 150px,
    height: 100px,
    margin: 10px 0,
  },
  interaction: {
    display: 'flex',
    justify-content: 'space-between',
  },
  likes: {
    color: 'blue',
    font-weight: 'bold',
  },
  comments: {
    color: 'blue',
    font-weight: 'bold',
  },
  shares: {
    color: 'blue',
    font-weight: 'bold',
  },
});

export default Post;
// Nguyễn Cường Lĩnh 22520767
```

Kết quả bài 1:



Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.P11

The screenshot shows a Visual Studio Code editor with a React Native project. The Explorer on the left shows the file structure with folders like 'android', 'ios', 'src', and 'App.js'. The main editor displays the code for 'App.js', which includes imports for React, React Native, and various libraries like 'react-native-vector-icons' and 'react-native-paper'. The code defines a stateful component 'App' with a 'useState' hook for 'selected' and 'included' items. It includes functions for 'toggleSelect' and 'toggleInclude' to manage the state. The render method uses 'renderFruitVegetableList' and 'renderFruitVegetableHeader' to display the data. The bottom status bar shows 'Android' and 'Visual Studio Code'.

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Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.P11

```
1 import React, { useState } from 'react';
2 import { StyleSheet, Text, View, FlatList, TouchableOpacity } from 'react-native';
3
4 // 22520767 Nguyễn Cường Lĩnh
5
6 const styles = StyleSheet.create({
7   container: {
8     flex: 1,
9     backgroundColor: 'gray',
10    marginHorizontal: 20,
11    marginTop: 30,
12  },
13   titleContainer: {
14     flexDirection: 'row',
15     backgroundColor: 'white',
16     justifyContent: 'center',
17   },
18   title: {
19     color: 'blue',
20     fontSize: 22,
21     fontWeight: 'bold',
22   },
23   list: {
24     marginVertical: 10,
25   },
26   listContainer: {
27     flex: 1,
28   },
29   itemContainer: {
30     backgroundColor: 'white',
31     padding: 10,
32     marginVertical: 5,
33     marginHorizontal: 10,
34     borderRadius: 10,
35     flexDirection: 'row',
36     justifyContent: 'space-between',
37     alignItems: 'center',
38   },
39   itemText: {
40     fontSize: 18,
41     fontWeight: 'bold',
42   },
43   sectionHeader: {
44     flexDirection: 'row',
45     justifyContent: 'space-around',
46     alignItems: 'center',
47     paddingHorizontal: 10,
48     paddingVertical: 5,
49   },
50 });
51
52 export default function App() {
53   const [data, setData] = useState([
54     { id: 1, title: 'Item 1' },
55     { id: 2, title: 'Item 2' },
56     { id: 3, title: 'Item 3' },
57     { id: 4, title: 'Item 4' },
58     { id: 5, title: 'Item 5' },
59     { id: 6, title: 'Item 6' },
60     { id: 7, title: 'Item 7' },
61     { id: 8, title: 'Item 8' },
62     { id: 9, title: 'Item 9' },
63     { id: 10, title: 'Item 10' },
64   ]);
65
66   const [selectedItem, setSelectedItem] = useState(null);
67
68   const renderItem = ({ item }) => (
69     <View style={styles.itemContainer}>
70       <Text style={styles.itemText}>{item.title}</Text>
71       <TouchableOpacity style={styles.itemContainer}>
72         <Text>Edit</Text>
73       </TouchableOpacity>
74     </View>
75   );
76
77   return (
78     <View style={styles.container}>
79       <View style={styles.titleContainer}>
80         <Text style={styles.title}>App</Text>
81       </View>
82       <FlatList
83         data={data}
84         renderItem={renderItem}
85         keyExtractor={item => item.id}
86       />
87     </View>
88   );
89 }
90
91 App.propTypes = {
92   // 22520767 Nguyễn Cường Lĩnh
93 };
```

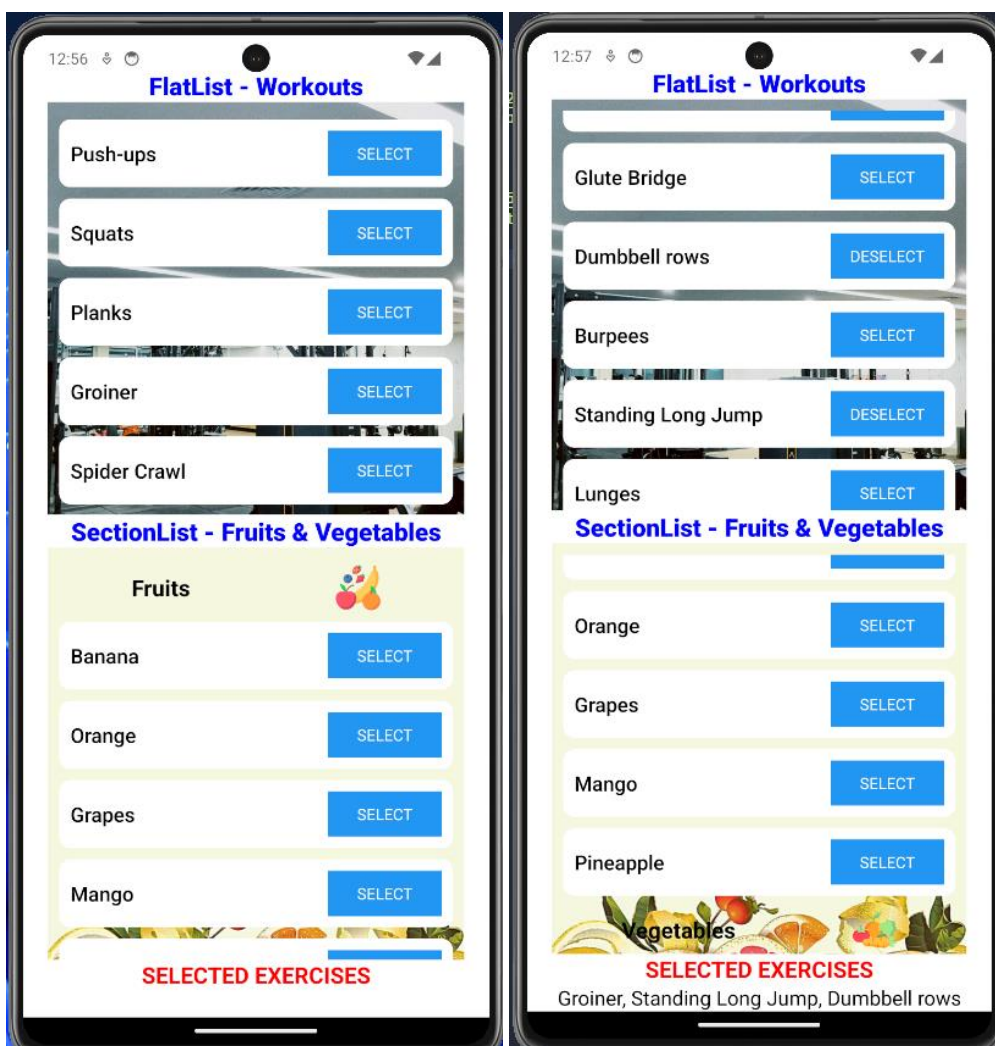
```
101   selectMenu: {
102     backgroundColor: 'white',
103     flexDirection: 'column',
104   },
105   selectMenuTitle: {
106     color: 'red',
107     fontWeight: 'bold',
108     fontSize: 20,
109     textAlign: 'center',
110   },
111   selectMenuContent: {
112     textAlign: 'center',
113     fontSize: 18,
114   },
115   button: {
116     backgroundColor: '#2196F3',
117     width: 100,
118     height: 40,
119     justifyContent: 'center',
120     alignItems: 'center',
121   },
122   buttonText: {
123     color: 'white',
124   },
125 });
126
127 export default function App() {
128   const [data, setData] = useState([
129     { id: 1, title: 'Item 1' },
130     { id: 2, title: 'Item 2' },
131     { id: 3, title: 'Item 3' },
132     { id: 4, title: 'Item 4' },
133     { id: 5, title: 'Item 5' },
134     { id: 6, title: 'Item 6' },
135     { id: 7, title: 'Item 7' },
136     { id: 8, title: 'Item 8' },
137     { id: 9, title: 'Item 9' },
138     { id: 10, title: 'Item 10' },
139   ]);
140
141   const [selectedItem, setSelectedItem] = useState(null);
142
143   const renderItem = ({ item }) => (
144     <View style={styles.itemContainer}>
145       <Text style={styles.itemText}>{item.title}</Text>
146       <TouchableOpacity style={styles.itemContainer}>
147         <Text>Edit</Text>
148       </TouchableOpacity>
149     </View>
150   );
151
152   return (
153     <View style={styles.container}>
154       <View style={styles.titleContainer}>
155         <Text style={styles.title}>App</Text>
156       </View>
157       <FlatList
158         data={data}
159         renderItem={renderItem}
160         keyExtractor={item => item.id}
161       />
162     </View>
163   );
164 }
```

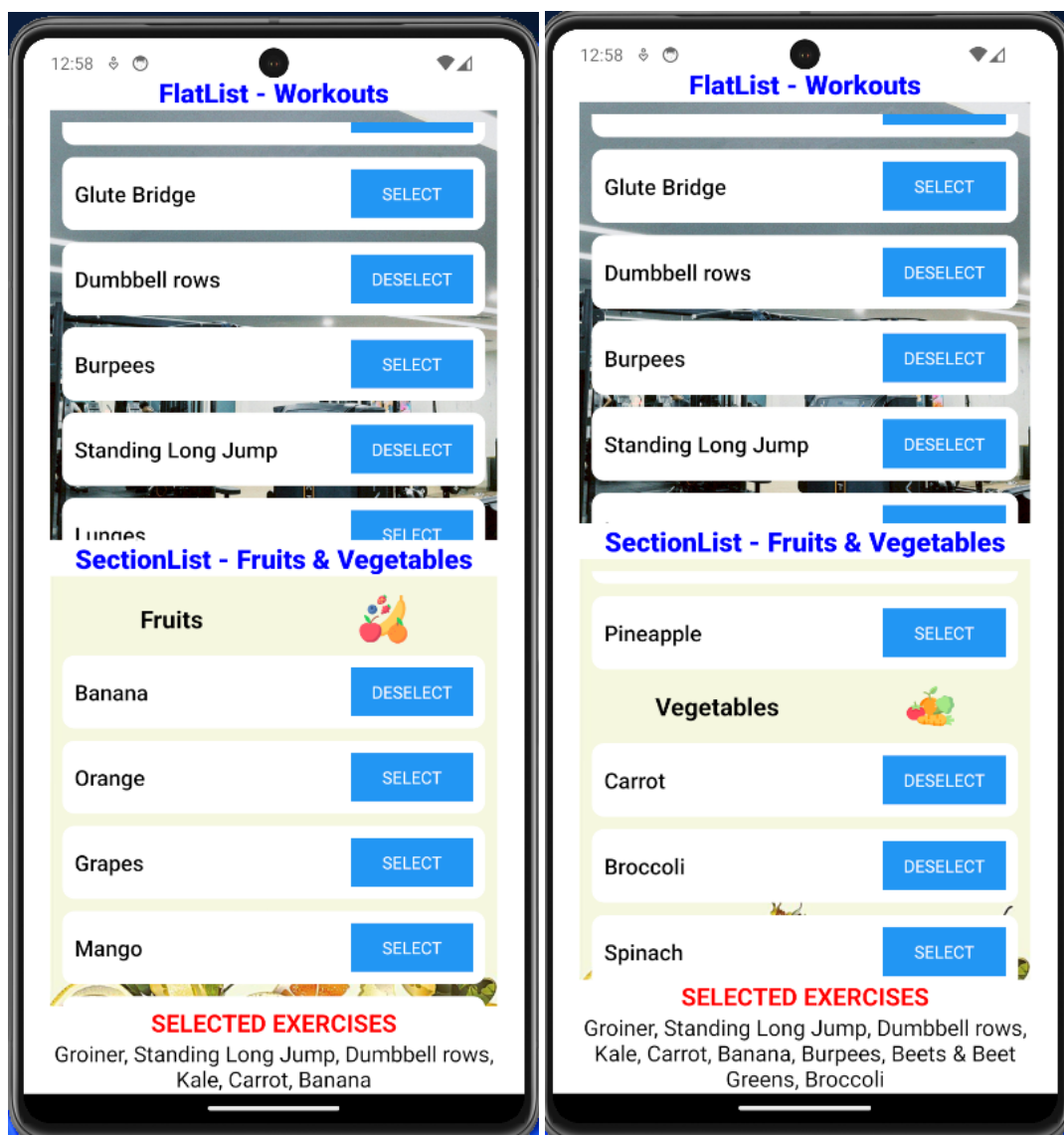


```
// data.js
export const fruits_vegetables = [
  {
    title: 'Fruits',
    url: 'https://cdn-icons-png.flaticon.com/512/1629/1629099.png',
    data: ['Banana', 'Orange', 'Grapes', 'Mango', 'Pineapple'],
  },
  {
    title: 'Vegetables',
    url: 'https://cdn-icons-png.flaticon.com/512/2153/2153788.png',
    data: ['Carrot', 'Broccoli', 'Spinach', 'Beets & Beet Greens', 'Kale'],
  },
];

export const workouts = [
  { id: '1', type: 'Push-ups' },
  { id: '2', type: 'Squats' },
  { id: '3', type: 'Planks' },
  { id: '4', type: 'Groiner' },
  { id: '5', type: 'Spider Crawl' },
  { id: '6', type: 'Glute Bridge' },
  { id: '7', type: 'Dumbbell rows' },
  { id: '8', type: 'Burpees' },
];
```

Kết quả bài 2:





III) Video quay màn hình kết quả

https://drive.google.com/file/d/1ZKdsalpggbUkM_4fe208I1BVY2uv7ukD/view?usp=sharing