

Main Points/Key Points	Notes
	<p style="text-align: center;">React Native List View</p> <p>1. What is List View?</p> <ol style="list-style-type: none"> a. List view is a component available in React Native to present a list of data. b. One of the common uses is to display data from database server (Networking or HTTP section). c. Data can be presented using either: <ol style="list-style-type: none"> i. FlatList – Display a scrolling list of changing, long, and similar data. It requires two props: <ul style="list-style-type: none"> ▪ data – <i>source of the information</i>. ▪ renderItem – <i>it takes one item to render</i>. ▪ To use FlatList component you need to import FlatList component: <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="text-align: center;">Import FlatList Component</p> <pre>import React, {Component} from 'react'; import {FlatList} from 'react-native';</pre> </div> ii. SectionList – Data are arranged into logical section according to section headers. It requires two props: <ul style="list-style-type: none"> ▪ sections – source of section and data ▪ renderSectionHeader – it takes one section and its data to render.
	Summary

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	<p>React Native List View</p> <ul style="list-style-type: none"> ▪ To use SectionList component you need to import SectionList component: <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="text-align: center;">Import SectionList Component</p> <pre>import React, {Component} from 'react'; import {SectionList} from 'react-native';</pre> </div> <ul style="list-style-type: none"> iii. Map – Data is arranged in a map similar to an array. <ul style="list-style-type: none"> ▪ Iterate each of the data and render in a view component. ▪ It does not require any specific React Native component. d. Refer to Example (FlatList) for implementation. <p>2. References</p> <ol style="list-style-type: none"> a. Dabit, N. (2018). <i>React Native in Action</i>. New York, NY: Manning Publications Co. b. Facebook Inc. React Native Reference, version 0.57. Available at https://facebook.github.io/react-native/
	Summary

Example (FlatList)

```
import React, { Component } from 'react';
import { FlatList, StyleSheet, Text, View } from 'react-native';

export default class App extends Component {
  render() {
    return (
      <View style={styles.container}>
        <FlatList
          data={[
            {key: 'Devin'},
            {key: 'Jackson'},
            {key: 'James'},
            {key: 'Joel'},
            {key: 'John'},
            {key: 'Jillian'},
            {key: 'Jimmy'},
            {key: 'Julie'},
          ]}
          renderItem={({item}) => <Text
style={styles.item}>{item.key}</Text>}
          />
        </View>
      );
    }
  }

  const styles = StyleSheet.create({
    container: {
      flex: 1,
      paddingTop: 22
    },
    item: {
      padding: 10,
      fontSize: 18,
      height: 44,
    },
  });
})
```

Example (SectionList)

```
import React, { Component } from 'react';
import { SectionList, StyleSheet, Text, View } from 'react-native';

export default class App extends Component {
  render() {
    return (
      <View style={styles.container}>
        <SectionList
          sections={[
            {title: 'D', data: ['Devin']},
            {title: 'J', data: ['Jackson', 'James', 'Jillian', 'Jimmy',
'Joel', 'John', 'Julie']},
          ]}
          renderItem={({item}) => <Text style={styles.item}>{item}</Text>}
          renderSectionHeader={({section}) => <Text
style={styles.sectionHeader}>{section.title}</Text>}
          keyExtractor={(item, index) => index}
        />
      </View>
    );
  }
}

const styles = StyleSheet.create({
  container: {
    flex: 1,
    paddingTop: 22
  },
  sectionHeader: {
    paddingTop: 2,
    paddingLeft: 10,
    paddingRight: 10,
    paddingBottom: 2,
    fontSize: 14,
    fontWeight: 'bold',
    backgroundColor: 'rgba(247,247,247,1.0)',
  },
  item: {
    padding: 10,
    fontSize: 18,
    height: 44,
  },
});
```

Example (Map)

App.js

```
import React, { Component } from 'react';
import { StyleSheet, Text, View } from 'react-native';
import List from './List'

export default class App extends Component {
  render() {
    return (
      <List />
    );
  }
}
```

List.js

```
import React, { Component } from 'react'
import { Text, View, TouchableOpacity, StyleSheet } from 'react-native'

export default class List extends Component {
  state = {
    names: [{ id: 0, name: 'Ben', },
            {id: 1, name: 'Susan', },
            {id: 2, name: 'Robert', },
            {id: 3, name: 'Mary', }
          ]
  }

  alertItemName = (item) => {
    alert(item.name)
  }

  render() {
    return (
      <View>
        {
          this.state.names.map((item, index) => (
            <TouchableOpacity
              key = {item.id}
              style = {styles.container}
              onPress = {( ) => this.alertItemName(item)}>

              <Text style = {styles.text}>
                {item.name}
              </Text>
            </TouchableOpacity>
          ))
        }
      </View>
    )
  }
}
```

```
}  
  
const styles = StyleSheet.create ({  
  container: {  
    padding: 10,  
    marginTop: 3,  
    backgroundColor: '#d9f9b1',  
    alignItems: 'center',  
  },  
  text: {  
    color: '#4f603c'  
  }  
});
```