

Basic layout

Create New Project with expo

```
expo init rn-complete-guide
```

choose blank template

1. Basic layout - 1

```
import { StatusBar } from 'expo-status-bar';
import React from 'react';
import { StyleSheet, Text, View, TextInput, Button } from 'react-native';

export default function App() {
  return (
    <View style={{padding: 50}}>
      <View style={{flexDirection: 'row', justifyContent: 'space-between',
        alignItems: 'center'}}>
        <TextInput placeholder="Course Goal"
          style={{width: '80%', borderColor: 'black', borderBottomWidth: 1,
            padding: 10}}/>
        <Button title="Add"/>
      </View>
    </View>
  );
}

const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: '#fff',
    alignItems: 'center',
    justifyContent: 'center',
  },
});
```

Flexbox

Ref:

<https://medium.com/wix-engineering/the-full-react-native-layout-cheat-sheet-a4147802405c>

<https://reactnative.dev/docs/flexbox>

```
// each box
<View style={{
  backgroundColor:'red',
  width:100,
  height:100,
  justifyContent:'center',
  alignItems:'center'
}}>
  <Text>1</Text>
</View>
```

```
// For padding with each border
<View style={{padding:50}}>
</View>
```

```
// flex box direction
<View style={{padding:50, flexDirection:'row'}}>
</View>
```

```
// add parent view this style
// remove child view width and height
<View style={{
  padding:50,
  flexDirection:'row',
  width:'80%',
  height:300,
  justifyContent:'space-around',
  alignItems:'stretch'
}}>
</View>
```

```
// add flex:1 at child view

<View style={{
  backgroundColor:'red',
  flex:1,
  justifyContent:'center',
  alignItems:'center'
}}>
  <Text>1</Text>
</View>
```

```
// add flex:2 for second child view
<View style={{
  backgroundColor:'green',
  flex:2,
  justifyContent:'center',
  alignItems:'center'
}}>
  <Text>2</Text>
</View>
```

Basic layout - 2

```
// create a style with style sheet object

<View style={styles.screen}>
  <View style={styles.inputContainer}>
    <TextInput placeholder="Course Goal" style={styles.input} />
    <Button title="Add" />
  </View>
</View>

const styles = StyleSheet.create({
  screen: {
    padding: 50,
  },
  inputContainer: {
    flexDirection: "row",
    justifyContent: "space-between",
    alignItems: "center",
  },
  input: {
    width: "80%",
    borderColor: "black",
    borderBottomWidth: 1,
    padding: 10,
  },
});
```

Working with Stage & Events

```

//1. import useStage
import React,{useState} from "react";

//2. set for null value for text box
const [enteredGoal,setEnteredGoal] = useState('');

//3. create function goInputHandler
function goInputHandler(enterText) {
  setEnteredGoal(enterText);
}

//3.1 arrow function
const goInputHandler = enterText => setEnteredGoal(enterText);

//4. add onChangeText events
<TextInput
  placeholder="Course Goal"
  style={styles.input}
  onChangeText={goInputHandler}
/>

//5. add value property
<TextInput
  placeholder="Course Goal"
  style={styles.input}
  onChangeText={goInputHandler}
  value={enteredGoal}
/>

//6. add onPress Events at button
<Button title="Add" onPress={addGoHandler} />

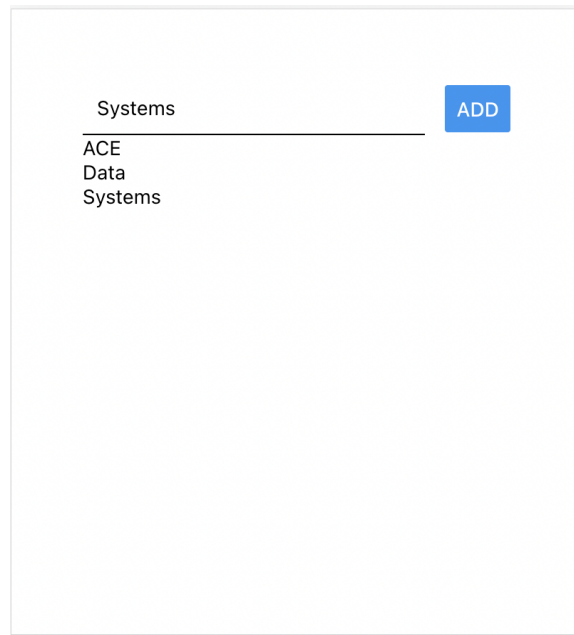
//7. implement addGoHandler function
const addGoHandler = () => {
  console.log(enteredGoal);
}

//8
const [courseGoals, setCourseGoals] = useState([]);

// courseGoal is previous stage, enterGoal is update stage
const addGoHandler = () => {
  setCourseGoals(currentGoals => [...currentGoals,enteredGoal]);
}
// 9 Bind the new view
<View>
  {courseGoals.map((goal) => <Text key={goal}>{goal}</Text>)}
</View>

```

Testing the app



2. Styling the items

```
// Text component to wrap with View component
// View component is more style option
<View>
  <View style={styles.listItem}>
    {courseGoals.map((goal) => (
      <Text key={goal}>{goal}</Text>
    ))}
  </View>
</View>

// list item style create

listItem:{
  padding:10,
  backgroundColor:'#ccc',
  borderColor:'black',
  borderWidth:1
}

// add scroll view
<ScrollView>
  <View>
```

```

        {courseGoals.map((goal) => (
          <View key={goal} style={styles.listItem}>
            <Text >{goal}</Text>
          </View>
        ))}
      </View>
    </ScrollView>

```

```

// Replace with scroll view

<FlatList
  data={courseGoals}
  renderItem={({itemData) => (
    <View style={styles.listItem}>
      <Text>{itemData.item}</Text>
    </View>
  )}
/>

// fix for key warning message
const addGoHandler = () => {
  setCourseGoals((currentGoals) => [
    ...currentGoals,
    { key: Math.random().toString(), value: enteredGoal},
  ]);
};

<FlatList
  data={courseGoals}
  renderItem={({itemData) => (
    <View style={styles.listItem}>
      <Text>{itemData.item.value}</Text>
    </View>
  )}
/>

// add Key
<FlatList
  keyExtractor={({item,index) => item.id}
  data={courseGoals}
  renderItem={({itemData) => (
    <View style={styles.listItem}>
      <Text>{itemData.item.value}</Text>
    </View>
  )}
/>

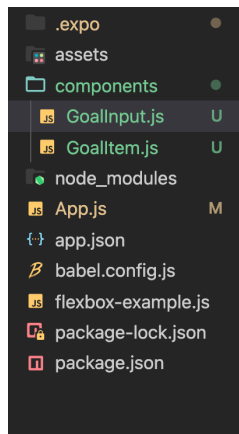
```

3. Styling the app into components

3.1 Create component folder

3.1.1 Create **GoalInput.js**

3.1.2 Create **GoalItem.js**



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

// implement
const GoalItem = (props) => {
  return (
    <View style={styles.listItem}>
      <Text>{props.title}</Text>
    </View>
  );
};

// create style object
const styles = StyleSheet.create({
  listItem: {
    padding: 10,
    marginVertical: 5,
    backgroundColor: "#ccc",
    borderColor: "black",
    borderWidth: 1,
  }
});
```

```

    },
  });

// 2 import goal item to app.js
import GoalItem from "../components/GoalItem";

<FlatList
  keyExtractor={({item, index}) => item.id}
  data={courseGoals}
  renderItem={({itemData}) => <GoalItem title={itemData.item.value} />}
/></FlatList>

```

4. Passing data between components

```

import React, { useState } from "react";
import { View, TextInput, Button, StyleSheet } from "react-native";

const GoalInput = (props) => {
  const [enteredGoal, setEnteredGoal] = useState("");

  const goInputHandler = (enteredText) => {
    setEnteredGoal(enteredText);
  };

  return (
    <View style={styles.inputContainer}>
      <TextInput
        placeholder="Course Goal"
        style={styles.input}
        onChangeText={goInputHandler}
        value={enteredGoal}
      />
      <Button title="Add" onPress={props.onAddGo.bind(this, enteredGoal)} />
    </View>
  );
};

const styles = StyleSheet.create({
  inputContainer: {
    flexDirection: "row",
    justifyContent: "space-between",
    alignItems: "center",
  },
  input: {
    width: "80%",
    borderColor: "black",
    borderBottomWidth: 1,
  },
});

```



```

        padding: 10,
      },
    });

export default GoalInput;

```

```

import { StatusBar } from "expo-status-bar";
import React, { useState } from "react";
import {
  StyleSheet,
  Text,
  View,
  TextInput,
  Button,
  ScrollView,
  FlatList,
} from "react-native";

import GoalItem from "../components/GoalItem";
import GoalInput from "../components/GoalInput";

export default function App() {

  const [courseGoals, setCourseGoals] = useState([]);

  const addGoHandler = goTitle => {
    setCourseGoals((currentGoals) => [
      ...currentGoals,
      { id: Math.random().toString(), value: goTitle },
    ]);
  };

  return (
    <View style={styles.screen}>
      <GoalInput onAddGo={addGoHandler} />
      <FlatList
        keyExtractor={({item, index}) => item.id}
        data={courseGoals}
        renderItem={({itemData}) => <GoalItem title={itemData.item.value} />}
      ></FlatList>
    </View>
  );
}

const styles = StyleSheet.create({
  screen: {
    padding: 50,
  },
});

```

5. Working with touchable components

```
onPress={() => console.Console("Does it work?")}}

// add on press event at GoalItem
<FlatList
  keyExtractor={(item, index) => item.id}
  data={courseGoals}
  renderItem={(itemData) => (
    <GoalItem
      onPress={() => console.Console("Does it work?")}}
      title={itemData.item.value}
    />
  )}
/>

// you don't see the output here

// Your parent view should be pressable
<View style={styles.listItem}>
  <Text>{props.title}</Text>
</View>

// wrap with touchable components
// Touchable , TouchableOpacit, TouchableHighlight, ...

<TouchableOpacity onPress={props.onDelete}>
  <View style={styles.listItem}>
    <Text>{props.title}</Text>
  </View>
</TouchableOpacity>

<View style={styles.screen}>
  <GoalInput onAddGo={addGoHandler} />
  <FlatList
    keyExtractor={(item, index) => item.id}
    data={courseGoals}
    renderItem={(itemData) => (
      <GoalItem
        onDelete={() => console.Console("Does it work?")}}
        title={itemData.item.value}
      />
    )}
  ></FlatList>
</View>
```

6. Delete Items

```

const removeGoHandler = goalID =>{
  setCourseGoals(currentGoals => {
    return currentGoals.filter((goal) => goal.id !== goalID)
  });
}

// App.js
<View style={styles.screen}>
  <GoalInput onAddGo={addGoHandler} />
  <FlatList
    keyExtractor={(item, index) => item.id}
    data={courseGoals}
    renderItem={(itemData) => (
      <GoalItem
        id={itemData.item.id}
        onDelete={removeGoHandler}
        title={itemData.item.value}
      />
    )}
  ></FlatList>
</View>

// GoItem.js
const GoalItem = (props) => {
  return (
    <TouchableOpacity onPress={props.onDelete.bind(this, props.id)}>
      <View style={styles.listItem}>
        <Text>{props.title}</Text>
      </View>
    </TouchableOpacity>
  );
};

```

Git:Repo

<https://github.com/arkarhtetmyint/rn-complete-guide.git>