Working with State & Events

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 \* Sample React Native App

 \* https://github.com/facebook/react-native

 \*

 \* @format

 \* @flow strict-local

 \*/

import React, { useState } from 'react'

import { Text, StyleSheet, View, ScrollView, TextInput, Image, Button } from 'react-native'

export default function App() {

  const [enteredGoal, setEnteredGoal] = useState('');

  const goalInputHandler = (enteredText) => {

    setEnteredGoal(enteredText);

  };

   const addGoalHandler = () => {

    console.log(enteredGoal);

  };

  return (

    <View style={styles.screen}>

      <View style={styles.inputContainer}>

        <TextInput

          placeholder="Course Goal"

          style={styles.input}

          onChangeText={goalInputHandler}

          value={enteredGoal}

        />

        <Button title="ADD" onPress={addGoalHandler} />

      </View>

    </View>

  );

}

const styles = StyleSheet.create({

  screen: {

    padding: 50

  },

  inputContainer: {

    flexDirection: 'row',

    justifyContent: 'space-between',

    alignItems: 'center'

  },

  input: {

    width: '80%',

    borderColor: 'black',

    borderWidth: 1,

    padding: 10

  },

  listItem: {

    padding: 10,

    marginVertical: 10,

    backgroundColor: 'gray',

    borderColor: 'black',

    borderWidth: 1

  }

})

Working with State & Events ,Styling List Items, Making it Scrollable with ScrollView

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import React, { useState } from 'react'

import { Text, StyleSheet, View, ScrollView, TextInput, Image, Button } from 'react-native'

export default function App() {

  const [enteredGoal, setEnteredGoal] = useState('');

  const [courseGoals, setCoureseGoals] = useState([]); //display text on screen

  const goalInputHandler = (enteredGoal) => {

    setEnteredGoal(enteredGoal);

  }

//display text on screen

  const addGoalHandler = () => {

    setCoureseGoals([...courseGoals, enteredGoal]);

  };

  return (

    <View style={styles.screen}>

      <View style={styles.inputContainer}>

        <TextInput

          placeholder="Course Goal"

          style={styles.input}

          onChangeText={goalInputHandler}

          value={enteredGoal}

        />

        <Button title="ADD" onPress={addGoalHandler} />

      </View>

      <ScrollView>

        <View>

          {courseGoals.map((goal) =>

            <View key={goal} style={styles.listItem}>

              <Text>{goal}</Text>

            </View>

          )}

        </View>

      </ScrollView>

    </View>

  );

}

const styles = StyleSheet.create({

  screen: {

    padding: 50

  },

  inputContainer: {

    flexDirection: 'row',

    justifyContent: 'space-between',

    alignItems: 'center'

  },

  input: {

    width: '80%',

    borderColor: 'black',

    borderWidth: 1,

    padding: 10

  },

  listItem: {

    padding: 10,

    marginVertical: 10,

    backgroundColor: 'gray',

    borderColor: 'black',

    borderWidth: 1

  }

})

Brief: You would use flexbox stylings (e.g. flex:1 etc.) to have content adjust itself to the available space.

A Better List: FlatList

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\* Sample React Native App

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\*

\* @format

\* @flow strict-local

\*/

import React, { useState } from 'react'

import { Text, StyleSheet, View, ScrollView, TextInput, FlatList, Button } from 'react-native'

export default function App() {

const [enteredGoal, setEnteredGoal] = useState('');

const [courseGoals, setCoureseGoals] = useState([]); //display text on screen

const goalInputHandler = (enteredGoal) => {

setEnteredGoal(enteredGoal);

}

//display text on screen

const addGoalHandler = () => {

setCoureseGoals([...courseGoals,

{ key: Math.random().toString(), value: enteredGoal }]);

};

return (

<View style={styles.screen}>

<View style={styles.inputContainer}>

<TextInput

placeholder="Course Goal"

style={styles.input}

onChangeText={goalInputHandler}

value={enteredGoal}

/>

<Button title="ADD" onPress={addGoalHandler} />

</View>

<FlatList

data={courseGoals}

renderItem={itemData => (

<View style={styles.listItem}>

<Text>{itemData.item.value}</Text>

</View>

)}

/>

</View>

);

}

const styles = StyleSheet.create({

screen: {

padding: 50

},

inputContainer: {

flexDirection: 'row',

justifyContent: 'space-between',

alignItems: 'center'

},

input: {

width: '80%',

borderColor: 'black',

borderWidth: 1,

padding: 10

},

listItem: {

padding: 10,

marginVertical: 10,

backgroundColor: 'gray',

borderColor: 'black',

borderWidth: 1

}

})

Outputting a List of Items