App.js

```
1    // Name badge
2
3    // Start
4    // Import the ScreenOrientation module from expo-screen-orientation package
5    import * as ScreenOrientation from 'expo-screen-orientation';
6
7    // Import the StatusBar component from expo-status-bar package
8    import { StatusBar } from 'expo-status-bar';
9
10   // Import React and the useEffect hook from the react package
11   import React, { useEffect } from 'react';
12
13   // Import components from react-native for building the UI
14   import { SafeAreaView, StyleSheet, Text, View } from 'react-native';
15
16   // Import the LinearGradient component from expo-linear-gradient for gradient backgrounds
17   import { LinearGradient } from 'expo-linear-gradient';
18
19   // Define the main App component as the default export
20   export default function App()
21   {
22     // Use the useEffect hook to run code when the component mounts (added to the DOM for the
     first time)
23     useEffect(() => {
24       // Define an asynchronous function to lock the screen orientation
25       const lockOrientation = async () => {
26         try
27         {
28           // Attempt to lock the screen orientation to landscape left
29           await ScreenOrientation.lockAsync(ScreenOrientation.OrientationLock.LANDSCAPE_LEFT);
30         } catch (error)
31         {
32           // Log an error message if locking the orientation fails
33           console.log("Failed to lock orientation:", error);
34         }
35       };
36       // Call the lockOrientation function to lock the screen orientation
37       lockOrientation();
38     // The empty dependency array means this effect runs only once, when the component mounts
39     }, []);
40     // End
41
42   // Return the UI components to be rendered
43   return (
44     // Start
45     // Gradient background
46     <LinearGradient
47         colors={['#ff6a00', '#ee0979']} // Define the colors for the gradient background,
     transitioning from orange to pink
48         style={styles.background} // Apply the background style to the gradient
49       >
50         // End
```

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51          {/*SafeAreaView ensures the content is rendered within the safe area boundaries of a
    device*/}
52        <SafeAreaView style={styles.safeArea}>
53            {/* Container for the main content */}
54          <View style={styles.container}>
55            {/* Text elements for "Hello" and "my name is" */}
56            <Text style={styles.welcomeText}>Hello</Text>
57            <Text style={styles.subtitleText}>my name is</Text>
58
59            {/* White box containing the name */}
60            <View style={styles.nameBox}>
61              {/* Display my name "Maryam" */}
62              <Text style={styles.nameText}>Maryam</Text>
63            </View>
64          </View>
65          {/* StatusBar component to control the appearance of the status bar */}
66          <StatusBar style="auto" />
67        </SafeAreaView>
68      </LinearGradient>
69    );
70  }
71
72  // Define the styles for the components using StyleSheet
73  const styles = StyleSheet.create({
74    // Style for the SafeAreaView to take up the full screen
75    safeArea:
76    {
77      flex: 1, // Take up the full height of the screen
78      width: '100%', // Full width of the screen
79      height: '100%', // Full height of the screen
80    },
81    // Style for the LinearGradient background
82    background:
83    {
84      flex: 1, // Take up the full height of the screen
85    },
86    // Style for the main container
87    container:
88    {
89      flex: 1, // Take up the full height of the screen
90      alignItems: 'center', // Center content horizontally
91      justifyContent: 'center', // Center content vertically
92      paddingHorizontal: 20, // Add horizontal padding to avoid text touching the edges
93    },
94    // Style for the "Hello" text
95    welcomeText:
96    {
97      fontSize: 90, // Large font size
98      textTransform: 'uppercase', // Transform text to uppercase
99      fontWeight: 'bold', // Bold font weight
100     color: 'white', // White text color
101     textAlign: 'center', // Center the text
102     shadowColor: '#000', // Black shadow color
103     shadowOffset: { width: 0, height: 5 }, // Shadow offset
```

```
104        shadowOpacity: 0.5, // Shadow opacity
105        shadowRadius: 10, // Shadow radius
106      },
107      // Style for the "my name is" text
108      subtitleText:
109      {
110        fontSize: 30, // Medium font size
111        textTransform: 'uppercase', // Transform text to uppercase
112        fontWeight: 'bold', // Bold font weight
113        color: 'white', // White text color
114        marginBottom: 20, // Margin at the bottom
115        textAlign: 'center', // Center the text
116      },
117      // Style for the white box containing the name
118      nameBox:
119      {
120        // Start
121        width: '90%', // 90% of the screen width
122        height: '35%', // 35% of the screen height
123        // End
124        backgroundColor: 'white', // White background color
125        // Start
126        borderRadius: 15, // Softer rounded corners
127        // End
128        justifyContent: 'center', // Center content vertically
129        alignItems: 'center', // Center content horizontally
130        padding: 20, // Add padding to give more space inside the box
131        // Start
132        shadowColor: '#000', // Black shadow color
133        shadowOffset: { width: 0, height: 5 }, // Shadow offset
134        shadowOpacity: 0.2, // Shadow opacity
135        shadowRadius: 10, // Shadow radius
136        elevation: 5, // For Android shadow support
137        // End
138      },
139      // Start
140      // Style for the name text
141      nameText:
142      {
143        fontSize: 60, // Large font size
144        textAlign: 'center', // Center the text
145        fontWeight: 'bold', // Bold font weight
146        color: '#333', // Dark gray text color
147      },
148      // End
149    });
```