Name: Youssef Mohammed AbdelFattah Ahmed
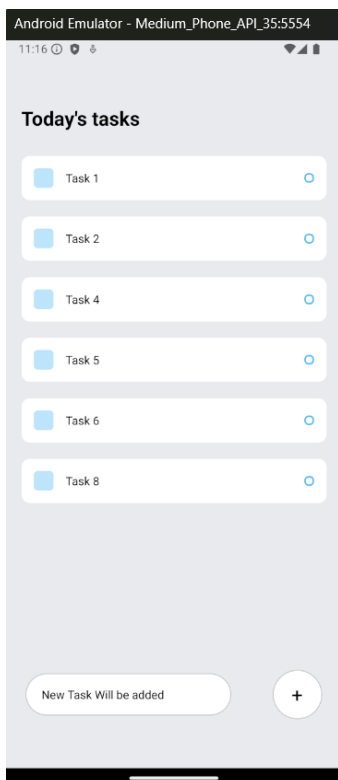
Section: 4

Date: 12 / 3 / 2025

React Native Task 1: List-To-Do

List-To-Do

Screenshots of Design
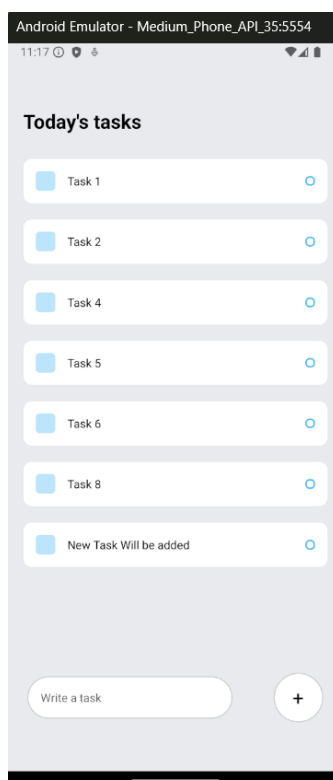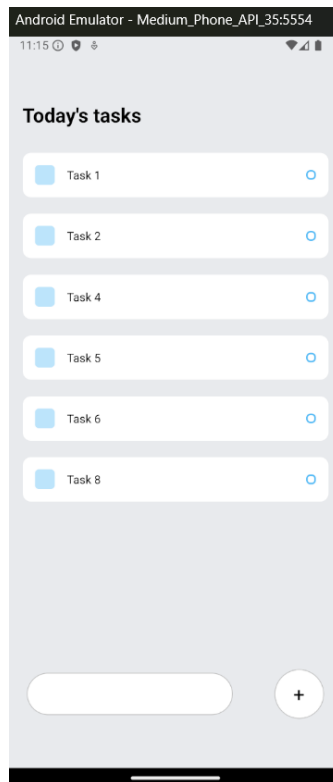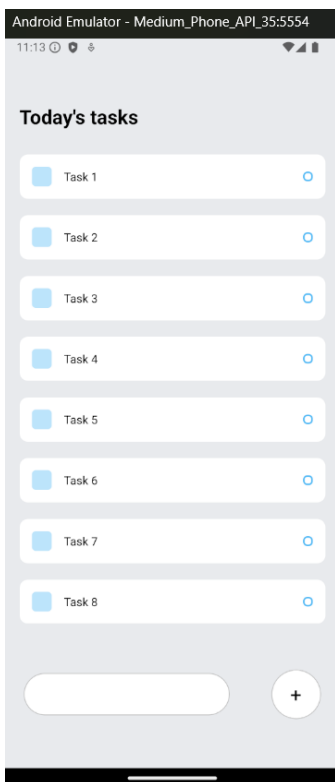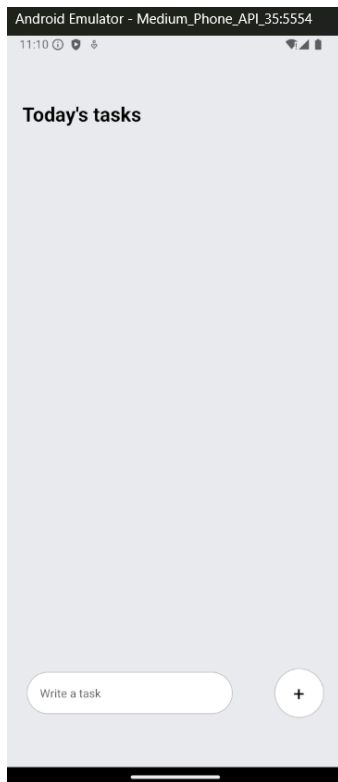
Colors and Fonts Used

Colors:

- **Background Color:** #E8EAED (Light Gray)
- **Task Background:** #FFF (White)
- **Border Color:** #C0C0C0 (Gray)
- **Button Background:** #FFF (White)
- **Task Indicator:** #55BCF6 (Blue)

Fonts:

- **Section Title:** Font Size 24, Bold
- **Task Text:** Default Font, Max Width 80%
- **Add Button Text:** Font Size 24

Code Used

App.js

```jsx
import React, {useState} from 'react';
import { Platform , KeyboardAvoidingView, StyleSheet, Text, View, TextInput,
TouchableOpacity, Keyboard, ScrollView } from 'react-native';
import Task from './components/Task';

export default function App() {
  const [task, setTask] = useState('');
  const [taskItems, setTaskItems] = useState([]);

  const handleAddTask = () => {
  if (!task || task.trim().length === 0) return; // Ensure task is not empty or undefined
  Keyboard.dismiss();
  setTaskItems([...taskItems, task.trim()]); // Trim spaces before adding
  setTask('');
};

  const completeTask = (index) => {
    let itemsCopy = [...taskItems];
    itemsCopy.splice(index, 1);
    setTaskItems(itemsCopy)
  }

  return (
    <View style={styles.container}>
      {/* Added scroll view to enable scrolling when list gets longer than the page */}
      <ScrollView
        contentContainerStyle={{
            flexGrow: 1
```

```
        }}
        keyboardShouldPersistTaps='handled'
      >

      {/* Today's Tasks */}
      <View style={styles.tasksWrapper}>
        <Text style={styles.sectionTitle}>Today's tasks</Text>
        <View style={styles.items}>
          {
            taskItems.map((item, index) => {
              return (
                <TouchableOpacity key={index}  onPress={() => completeTask(index)}>
                  <Task text={item} />
                </TouchableOpacity>
              )
            })
          }
        </View>
      </View>

      </ScrollView>

      {/* A keyboard avoiding view which ensures the keyboard does not cover the items on
screen */}
      <KeyboardAvoidingView
        behavior={Platform.OS === "ios" ? "padding" : "height"}
        style={styles.writeTaskWrapper}
      >
        <TextInput style={styles.input} placeholder={'Write a task'} value={task}
onChangeText={text => setTask(text)} />
        <TouchableOpacity onPress={() => handleAddTask()}>
          <View style={styles.addWrapper}>
            <Text style={styles.addText}>+</Text>
          </View>
        </TouchableOpacity>
      </KeyboardAvoidingView>

    </View>
  );
}

const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: '#E8EAED',
  },
```

```
tasksWrapper: {
  paddingTop: 80,
  paddingHorizontal: 20,
},
sectionTitle: {
  fontSize: 24,
  fontWeight: 'bold'
},
items: {
  marginTop: 30,
},
writeTaskWrapper: {
  position: 'absolute',
  bottom: 60,
  width: '100%',
  flexDirection: 'row',
  justifyContent: 'space-around',
  alignItems: 'center',
},
input: {
  paddingVertical: 15,
  paddingHorizontal: 15,
  backgroundColor: '#FFF',
  borderRadius: 60,
  borderColor: '#C0C0C0',
  borderWidth: 1,
  width: 250,
},
addWrapper: {
  width: 60,
  height: 60,
  backgroundColor: '#FFF',
  borderRadius: 60,
  justifyContent: 'center',
  alignItems: 'center',
  borderColor: '#C0C0C0',
  borderWidth: 1,
},
addText: {
  fontSize: 24
  }
});
```

Task.js

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

const Task = (props) => {

    return (
    <View style={styles.item}>
        <View style={styles.itemLeft}>
            <View style={styles.square}></View>
                <Text style={styles.itemText}>{props.text}</Text>
            </View>
        <View style={styles.circular}></View>
    </View>
    )
}

const styles = StyleSheet.create({
    item: {
        backgroundColor: '#FFF',
        padding: 15,
        borderRadius: 10,
        flexDirection: 'row',
        alignItems: 'center',
        justifyContent: 'space-between',
        marginBottom: 20,
    },
        itemLeft: {
        flexDirection: 'row',
        alignItems: 'center',
        flexWrap: 'wrap',
    },
    square: {
        width: 24,
        height: 24,
        backgroundColor: '#55BCF6',
        opacity: 0.4,
        borderRadius: 5,
        marginRight: 15,
    },
    itemText: {
        maxWidth: '80%',
    },
    circular: {
        width: 12,
```

```
        height: 12,
        borderColor: '#55BCF6',
        borderWidth: 2,
        borderRadius: 5,
    },
});

export default Task;
```