# **To-Do List App Report**

#### 1. Introduction

This report documents the design and implementation of a simple To-Do List app built using React Native. The app allows users to:

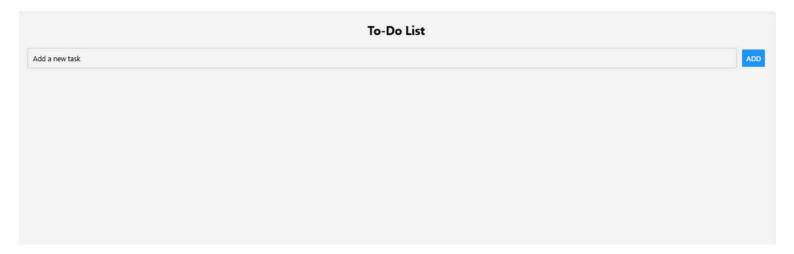
- Add new tasks.
- Mark tasks as completed.
- Delete tasks.

The app is designed to be intuitive and user-friendly, with a clean and modern interface.

## 2. Screenshots of the Design

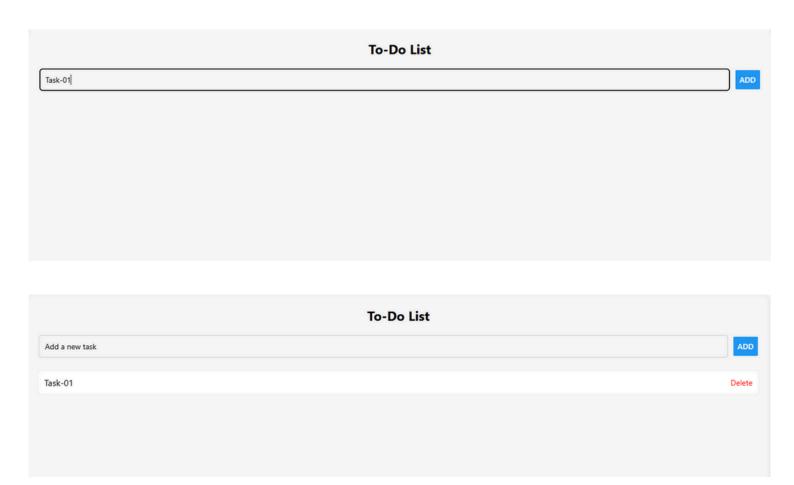
Below are screenshots of the app, showcasing different actions and their results.

#### 2.1 Home Screen



- Displays the title "To-Do List."
- Shows an input field and an "Add" button for adding new tasks.
- Lists all to-do items.

## 2.2 Adding a New Task



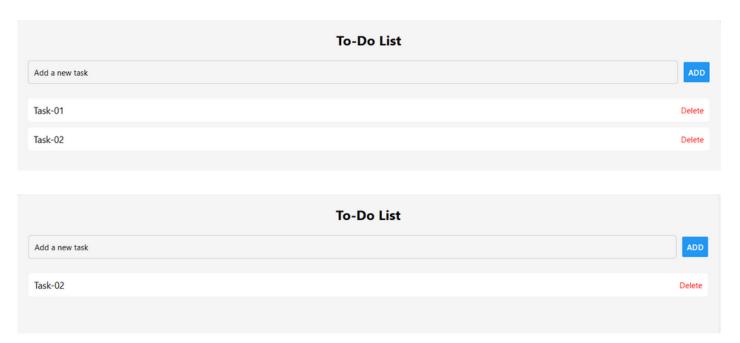
- The user types a task in the input field and clicks "Add."
- The new task appears in the list below.

## 2.3 Marking a Task as Completed



- The user taps on a task to mark it as completed.
- Completed tasks are displayed with a strikethrough and grayedout text.

### 2.4 Deleting a Task



- The user taps the "Delete" button next to a task.
- The task is removed from the list.

## 3. Colors Used in the Project

The app uses a simple and clean color scheme to ensure readability and a pleasant user experience. Below are the colors used:

### **Primary Colors**

- Background Color: #f5f5f5 (Light Gray)
  Used for the main container to provide a neutral background.
- Task Item Background: #ffffff (White)
  Used for individual to-do items to make them stand out against the background.

#### **Text Colors**

- Title Text: #00000 (Black)
  Used for the app title ("To-Do List").
- Task Text: #000000 (Black)
   Used for uncompleted tasks.
- Completed Task Text: #888888 (Gray)
   Used for completed tasks to indicate they are done.
- Delete Button Text: #ff0000 (Red)
   Used for the "Delete" button to draw attention.

### **Input Field Colors**

- Input Border: #ccccc (Light Gray)
  Used for the border of the input field.
- Input Text: #00000 (Black)
  Used for the text entered by the user.

## 4. Fonts Used in the Project

The app uses system fonts for simplicity and consistency across platforms. Below are the font styles:

#### **Title Font**

• Font Size: 24px

• Font Weight: bold

• Alignment: Centered

• Example: "To-Do List"

#### **Task Font**

• Font Size: 16px

• Font Weight: Normal

• Example: "Task-01"

### **Completed Task Font**

• Font Size: 16px

• Font Weight: Normal

• Text Decoration: line-through

• Example: "~~Task-01~~"

#### **Delete Button Font**

• Font Size: 14px

• Font Weight: Normal

• Color: #ff0000 (Red)

• Example: "Delete"

#### 5. Code

### App.js

```
import React, { useState } from 'react';
import { View, Text, StyleSheet, FlatList, Button } from 'react-native';
import TodoItem from './components/TodoItem';
import AddTodo from './components/AddTodo';
  const [todos, setTodos] = useState([]);
  const addTodoHandler = (task) => {
    setTodos((currentTodos) => [
      ...currentTodos,
      { id: Math.random().toString(), text: task, completed: false },
  const toggleTodoHandler = (id) => {
    setTodos((currentTodos) =>
      currentTodos.map((todo) =>
        todo.id === id ? { ...todo, completed: !todo.completed } : todo
  const deleteTodoHandler = (id) => {
   setTodos((currentTodos) => currentTodos.filter((todo) => todo.id !== id));
    <View style={styles.container}>
      <Text style={styles.title}>To-Do List</Text>
      <AddTodo onAddTodo={addTodoHandler} />
      <FlatList
        data={todos}
        keyExtractor={(item) => item.id}
        renderItem={({ item }) => (
          <TodoItem
            item={item}
            onToggle={toggleTodoHandler}
            onDelete={deleteTodoHandler}
      />
    </View>
const styles = StyleSheet.create({
  container: {
    flex: 1,
    padding: 20,
    backgroundColor: '#f5f5f5',
  title: {
    fontSize: 24,
    fontWeight: 'bold',
    marginBottom: 20,
    textAlign: 'center',
export default App;
```

```
import React, { useState } from 'react';
import { View, TextInput, Button, StyleSheet } from 'react-native';
const AddTodo = ({ onAddTodo }) => {
  const [task, setTask] = useState('');
  const handleAddTodo = () => {
    if (task.trim()) {
     onAddTodo(task);
     setTask('');
  };
  return (
   <View style={styles.container}>
     <TextInput
        style={styles.input}
        placeholder="Add a new task"
        value={task}
        onChangeText={setTask}
     <Button title="Add" onPress={handleAddTodo} />
    </View>
  );
};
const styles = StyleSheet.create({
 container: {
    flexDirection: 'row',
    justifyContent: 'space-between',
    alignItems: 'center',
   marginBottom: 20,
  },
  input: {
    flex: 1,
    borderColor: '#ccc',
    borderWidth: 1,
    borderRadius: 5,
    padding: 10,
   marginRight: 10,
 },
});
export default AddTodo;
```

```
import React from 'react';
import { View, Text, StyleSheet, TouchableOpacity } from 'react-native';
const TodoItem = ({ item, onToggle, onDelete }) => {
  return (
    <View style={styles.todoItem}>
      <TouchableOpacity onPress={() => onToggle(item.id)}>
        <Text
          style={[
            styles.todoText,
            item.completed && styles.completedText,
          1}
          {item.text}
        </Text>
     </TouchableOpacity>
      <TouchableOpacity onPress={() => onDelete(item.id)}>
        <Text style={styles.deleteText}>Delete</Text>
      </TouchableOpacity>
    </View>
  );
};
const styles = StyleSheet.create({
 todoItem: {
    flexDirection: 'row',
    justifyContent: 'space-between',
    alignItems: 'center',
    padding: 10,
   marginVertical: 5,
    backgroundColor: '#fff',
   borderRadius: 5,
   elevation: 2,
  },
 todoText: {
   fontSize: 16,
  },
 completedText: {
    textDecorationLine: 'line-through',
   color: '#888',
  },
 deleteText: {
    color: 'red',
   fontSize: 14,
 },
});
export default TodoItem;
```