### 1. BASIC COMPONENT

### IMPLEMENTATION:

```
import React from 'react';
import { FlatList, Text, View } from 'react-native';
const ItemList = ({ items }) => {
 const renderItem = ({ item }) => (
  <View style={{ padding: 10, borderBottomWidth: 1,
borderColor: '#ccc' }}>
   <Text>{item}</Text>
  </View>
 );
 return (
  <FlatList
   data={items}
   keyExtractor={(item, index) => index.toString()}
   renderItem={renderItem}
  />
 );
};
export default ItemList;
// Usage Example
// <ItemList items={['Item 1', 'Item 2', 'Item 3']} />
```

### 2. STATE MANAGEMENT

### IMPLEMENTATION:

export default CounterApp;

## 3. NAVIGATION

```
// Navigation setup import React from 'react'; import { NavigationContainer } from '@react-navigation/native'; import { createStackNavigator } from '@react-navigation/stack'; import { View, Text, Button, FlatList } from 'react-native';
```

```
const Stack = createStackNavigator();
const ItemListScreen = ({ navigation }) => {
 const items = ['Item 1', 'Item 2', 'Item 3'];
 return (
  <FlatList
   data={items}
   keyExtractor={(item, index) => index.toString()}
   renderItem={({ item }) => (
    <Button
     title={item}
     onPress={() => navigation.navigate('Detail', { item })}
    />
   )}
  />
);
};
const ItemDetailScreen = ({ route }) => {
 const { item } = route.params;
 return (
  <View style={{ padding: 20 }}>
   <Text style={{ fontSize: 24 }}>{item}</Text>
  </View>
 );
};
export default function App() {
 return (
  <NavigationContainer>
   <Stack.Navigator initialRouteName="List">
```

### 4. API CALL

```
import React, { useState, useEffect } from 'react';
import { View, Text, FlatList, ActivityIndicator, Button } from
'react-native';
const GitHubUsers = () => {
 const [users, setUsers] = useState([]);
 const [loading, setLoading] = useState(true);
 const [error, setError] = useState(null);
 useEffect(() => {
  fetch('https://api.github.com/users')
   .then(response => response.json())
   .then(data => {
    setUsers(data);
    setLoading(false);
   })
   .catch(error => {
    setError(error);
    setLoading(false);
   });
```

```
}, []);
 if (loading) {
  return <ActivityIndicator size="large" />;
 }
 if (error) {
  return (
   <View>
    <Text>Error fetching data: {error.message}</Text>
    <Button title="Retry" onPress={() => fetchUsers()} />
   </View>
  );
 }
 return (
  <FlatList
   data={users}
   keyExtractor={(item) => item.id.toString()}
   renderItem={({ item }) => (
    <View style={{ padding: 10 }}>
     <Text>{item.login}</Text>
    </View>
   )}
  />
);
};
```

export default GitHubUsers;

# 5. STYLING CHALLENGE:

```
import React from 'react';
import { View, TextInput, Button, StyleSheet } from 'react-
native';
const LoginScreen = () => {
 return (
  <View style={styles.container}>
   <TextInput
    placeholder="Username"
    style={styles.input}
   />
   <TextInput
    placeholder="Password"
    secureTextEntry
    style={styles.input}
   />
   <Button title="Login" onPress={() => alert('Login pressed')}
/>
  </View>
 );
};
const styles = StyleSheet.create({
 container: {
  flex: 1,
  justifyContent: 'center',
  padding: 20,
  backgroundColor: '#f0f0f0',
 },
 input: {
  height: 50,
```

```
borderColor: '#ccc',
borderWidth: 1,
borderRadius: 5,
marginBottom: 15,
paddingHorizontal: 10,
},
});
```

### 6. CUSTOM HOOK:

```
import { useState, useEffect } from 'react';

const useFetch = (url) => {
  const [data, setData] = useState(null);
  const [loading, setLoading] = useState(true);
  const [error, setError] = useState(null);

useEffect(() => {
    const fetchData = async () => {
        try {
            const response = await fetch(url);
            const result = await response.json();
            setData(result);
        } catch (err) {
            setError(err);
        } finally {
```

```
setLoading(false);
   }
  };
  fetchData();
 }, [url]);
 return { data, loading, error };
};
export default useFetch;
// Usage Example
import React from 'react';
import { FlatList, Text, View, ActivityIndicator } from 'react-
native';
import useFetch from './useFetch';
const UsersList = () => {
 const { data, loading, error } =
useFetch('https://api.github.com/users');
 if (loading) return <ActivityIndicator size="large" />;
 if (error) return <Text>Error: {error.message}</Text>;
 return (
  <FlatList
   data={data}
   keyExtractor={(item) => item.id.toString()}
   renderItem={({ item }) => (
    <View style={{ padding: 10 }}>
     <Text>{item.login}</Text>
    </View>
```

```
)}
/>
);
};
export default UsersList;
```