

***Comsats University Islamabad,  
Attock Campus***



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***REG NUMBER:***

*SP22-BSE-030*

***COURSE:***

*Mobile App Developement*

***Submitted to:***

*Sir Kamran*

## Question:

Create a react native mobile application for managing the contacts. It should have the following features.

1- Display a hardcoded list of 10 contacts. Each contact should have at least following properties.

Name, Contact Number, Group (Family, Friends, Work)

2- The app should allow the user to filter the contacts based on phone number and name.

3- Clicking a specific contact should display the details of the contact in a pop up.

4- Try to display the contacts group wise. (Hint: Look for section list).

Demonstrate the working of your app and walk through the key parts of your code in a 1-2 minute Screen recording.

## Solution:

### Code:

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

```
import { View, Text, TextInput, SectionList, TouchableOpacity, Modal,
StyleSheet } from 'react-native';
```

```
const contacts = [
  { name: 'Ali Khan', number: '03001234567', group: 'Family' },
  { name: 'Sara Ali', number: '03011234567', group: 'Friends' },
  { name: 'Bilal Ahmad', number: '03021234567', group: 'Work' },
  { name: 'Zainab Fatima', number: '03031234567', group: 'Family' },
  { name: 'Ayesha Malik', number: '03041234567', group: 'Friends' },
  { name: 'Hamza Yousuf', number: '03051234567', group: 'Work' },
  { name: 'Usman Tariq', number: '03061234567', group: 'Family' },
  { name: 'Mehwish Raza', number: '03071234567', group: 'Friends' },
```

```
{ name: 'Imran Bhatti', number: '03081234567', group: 'Work' },  
{ name: 'Noor Bano', number: '03091234567', group: 'Friends' },  
];
```

```
const App = () => {  
  const [search, setSearch] = useState("");  
  const [modalVisible, setModalVisible] = useState(false);  
  const [selectedContact, setSelectedContact] = useState(null);  
  
  const filteredContacts = contacts.filter(contact =>  
    contact.name.toLowerCase().includes(search.toLowerCase()) ||  
    contact.number.includes(search)  
  );  
  
  const groupedContacts = ['Family', 'Friends', 'Work'].map(group => ({  
    title: group,  
    data: filteredContacts.filter(contact => contact.group === group),  
  })).filter(section => section.data.length > 0);  
  
  const handleContactPress = (contact) => {  
    setSelectedContact(contact);  
    setModalVisible(true);  
  };  
}
```

```
};
```

```
return (
```

```
  <View style={styles.container}>
```

```
    <Text style={styles.heading}>Contacts</Text>
```

```
    <TextInput
```

```
      style={styles.input}
```

```
      placeholder="Search by name or number"
```

```
      value={search}
```

```
      onChangeText={setSearch}
```

```
    />
```

```
    <SectionList
```

```
      sections={groupedContacts}
```

```
      keyExtractor={({item, index}) => item.number + index}
```

```
      renderItem={({ item }) => (
```

```
        <TouchableOpacity onPress={() => handleContactPress(item)}>
```

```
        style={styles.item}>
```

```
          <Text>{item.name} - {item.number}</Text>
```

```
        </TouchableOpacity>
```

```
      )}
```

```
      renderSectionHeader={({ section: { title } }) => (
```

```
        <Text style={styles.sectionHeader}>{title}</Text>
```

```
}}
```

```
/>
```

```
<Modal visible={modalVisible} transparent animationType="slide">
```

```
  <View style={styles.modalContainer}>
```

```
    <View style={styles.modalContent}>
```

```
      {selectedContact && (
```

```
        <>
```

```
          <Text style={styles.modalTitle}>{selectedContact.name}</Text>
```

```
          <Text>Number: {selectedContact.number}</Text>
```

```
          <Text>Group: {selectedContact.group}</Text>
```

```
        </>
```

```
      )}
```

```
      <TouchableOpacity onPress={() => setModalVisible(false)}  
style={styles.closeButton}>
```

```
        <Text style={{ color: 'white' }}>Close</Text>
```

```
      </TouchableOpacity>
```

```
    </View>
```

```
  </View>
```

```
</Modal>
```

```
</View>
```

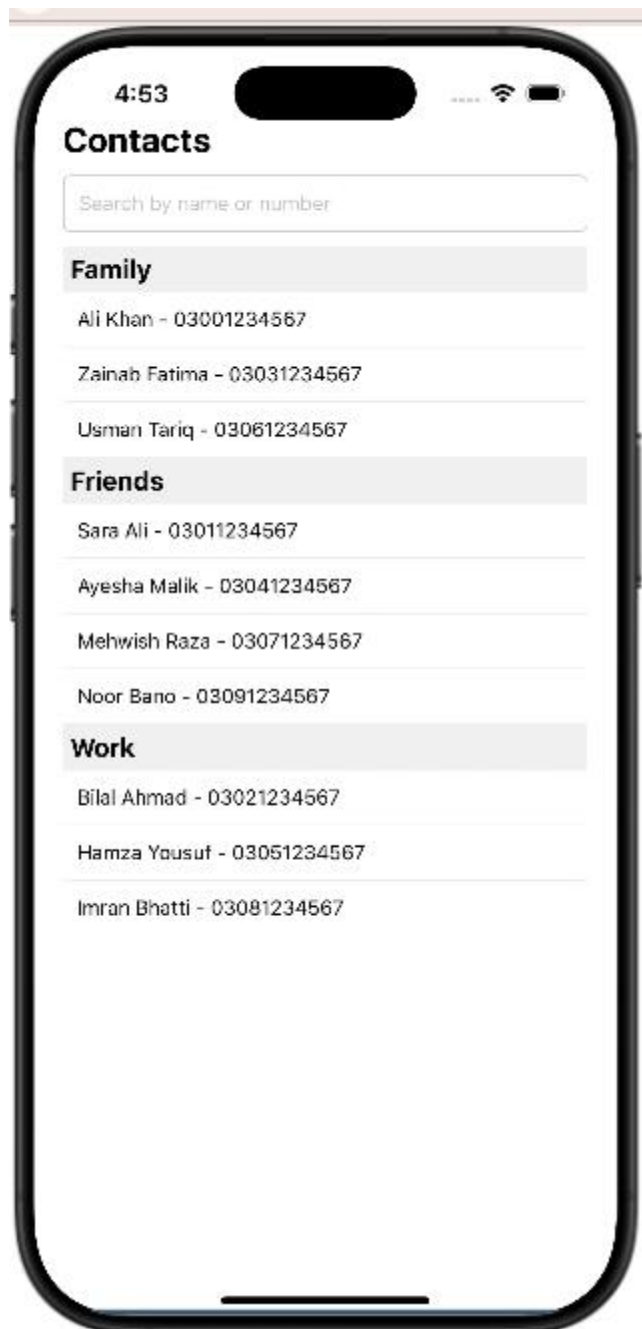
```
);
```

```
};
```

```
const styles = StyleSheet.create({  
  container: { flex: 1, padding: 20, paddingTop: 50, backgroundColor:  
    '#fff' },  
  heading: { fontSize: 24, fontWeight: 'bold', marginBottom: 10 },  
  input: { borderWidth: 1, borderColor: '#ccc', borderRadius: 5, padding:  
    10, marginBottom: 10 },  
  item: { padding: 10, borderBottomWidth: 1, borderBottomColor:  
    '#eee' },  
  sectionHeader: { fontWeight: 'bold', fontSize: 18, backgroundColor:  
    '#f0f0f0', padding: 5 },  
  modalContainer: { flex: 1, justifyContent: 'center', alignItems: 'center',  
    backgroundColor: 'rgba(0,0,0,0.5)' },  
  modalContent: { backgroundColor: 'white', padding: 20, borderRadius:  
    10, width: '80%' },  
  modalTitle: { fontSize: 20, fontWeight: 'bold', marginBottom: 10 },  
  closeButton: { marginTop: 20, backgroundColor: '#007AFF', padding:  
    10, borderRadius: 5, alignItems: 'center' },  
});
```

```
export default App;
```

**OUTPUT:**



4:54

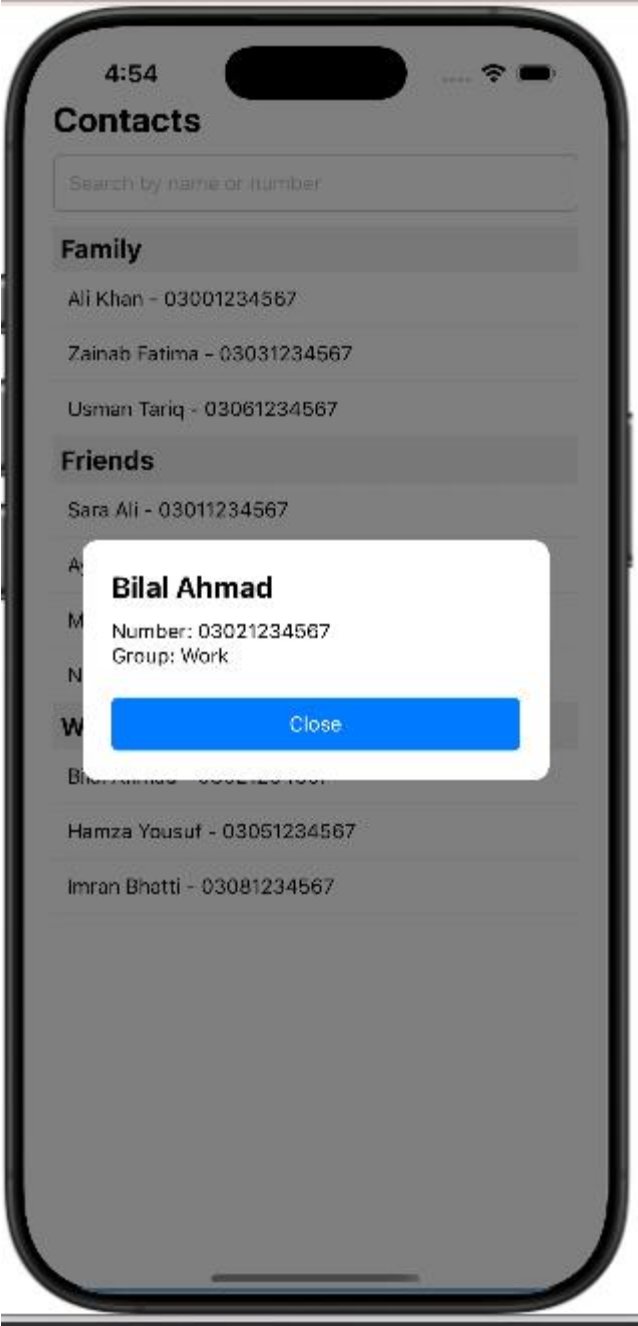
## Contacts

Bila

### Work

Bilal Ahmad - 03021234567





## Snack Expo Link:

<https://snack.expo.dev/@adeelkhattak01/project-one?platform=ios>