



University of Sri Jayewardenepura, Sri Lanka  
**Bachelor of Information and Communication Technology Semester 6**  
**ITC 3122 Mobile Application Development**  
**Assignment 1**

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Create a simple Contacts List application that allows users to view a list of contacts. The app should display basic contact information such as names and phone numbers using *RecyclerView*. When a contact is selected, it should show more details about the contact on a new screen.

**Requirements:**

1. Implement *RecyclerView* to display a list of contacts with their names and phone numbers.
2. Create a data structure (e.g., a data class) to represent a contact with properties like name, phone number, and any other relevant information.
3. Hard-code a list of contacts (around 10 - 20) in the app to display in the *RecyclerView*. For simplicity, you can use a simple *ArrayList* to store the contact data.
4. When a user taps on a contact item, open a new activity or fragment to display more detailed information about the selected contact, such as the contact's name, phone number, and any other relevant data.
5. Implement a basic *RecyclerView* adapter to bind the contact data to the list items.
6. Create a separate layout file for the *RecyclerView* list item view.
7. Ensure the app handles basic errors and edge cases gracefully.

**Bonus:**

- Instead of hard coding the contacts, implement a feature to allow users to add new contacts to the list dynamically.
- Add a feature to edit or delete existing contacts.
- Implement a search functionality that allows users to search for contacts by name.

**Submission:**

- Final **.apk** file and Android Studio project files should be compressed(zip/rar)
- Before compressing your project make sure to delete all **/build** folders within the project. (Project build folder & module's build folder/folders)  
Alternatively, select, Build --> Clean Project in Android studio & then compress the project.
- Please rename the compressed file with your index number and upload it into LMS.

Deadline: **May 31, 2024**