Assignment Question

The Simple Personal Organizer app will store user information (Name and Email) in a database, retrieve the stored data, and allow updating existing records. This project is designed to introduce core Android development concepts such as project setup, UI design, activity navigation, data persistence, and dynamic data display.

Question A: Set up the Simple Personal Organizer Project
Set up the Simple Personal Organizer project in Android Studio.

➢ Create a new Android project in Android Studio and name it SimplePersonalOrganizer.
➢ Select an Empty Activity template and ensure the project targets API level 24 (Nougat) or higher.
➢ Configure the package name and app settings as required.
➢ Create a database helper class named DatabaseHelper to manage the SQLite database.
➢ Define a table Users with the following columns:
  o id (INTEGER, primary key, auto-increment)
  o name (TEXT, stores the user's name)
  o email (TEXT, stores the user's email address)

Deliverable: Submit the project setup screenshot showing the project structure, configuration, and the DatabaseHelper class code.

Question B: Design the Information Form
Design a basic information form in activity_main.xml to collect user details and store them in the database.

➢ Add EditText elements in activity_main.xml for Name and Email, with TextView labels for each field.
➢ Add a "Save" button to store the entered data in the Users table using the DatabaseHelper class.
➢ Add basic styling (e.g., padding, margins) to make the form visually readable.
➢ Display a success message upon saving the data.

Deliverable: Submit the XML layout file (activity_main.xml) and MainActivity.kt file, and a screenshot of the form showing sample data saved in the database

Question C: Implement Navigation and Data Retrieval
Create a second screen to display the stored user information.

➢ Add a new activity named UserListActivity.
➢ Use the DatabaseHelper class to retrieve all user records from the Users table only for user named "admin".
➢ Display the retrieved data in a RecyclerView or ListView, showing Name and Email.
➢ Add a "View All Users" button in the main form to navigate to the UserListActivity.

Deliverable: Submit the UserListActivity.kt file and a screenshot showing the list of users displayed on the screen.