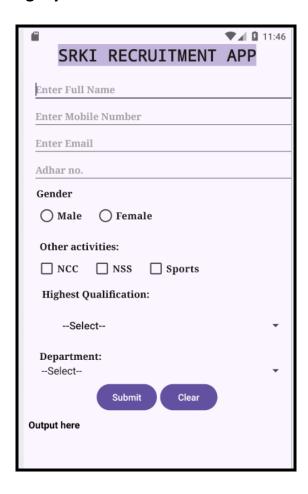
You are tasked with developing a mobile application called SRKI Recruitment App, which streamlines the recruitment process.

Practical assignment -1

Aim: Acquaintance with layouts and various **UI components** and their attributes.

Task: Design an activity as shown below utilizing **Linear, Relative, and Constraint layouts** to capture job details entered by the user.

Note: Incorporate attributes such as ems, background, textSize, layout_margin, padding, layout_weight, textStyle, textColor, fontfamily, background_tint, etc to create an aesthetically pleasing layout.



Assignment 2:

Aim: Populate and retrieve details from radio buttons, checkboxes, spinner, and edit text fields upon button click.

Tasks:

- Referring to assignment 1, populate the spinner for Highest Qualifications using ArrayAdapter. (Options: Ph.D., Masters, Bachelors)
- Populate Department Spinner using strings.xml (options: CS, BT, MB)
- On submit, display name, RadioButton, Spinner, and CheckBox details in TextView(s).

Output Example:

Name: Thomas Gender: Male

Other Activities: NCC, Sports
Highest Qualification: Masters

Department: CS

Advance:

Add backend validation to ensure the user enters all the information before submitting details.

Assignment 3

Aim: Utilizing Intent for Activity Navigation and Data Passing.

Task:

Referring to Assignment 1, modify the registration activity to perform the following operations:

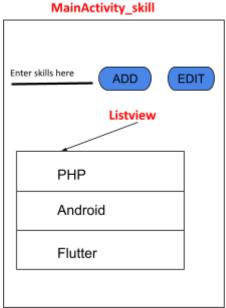
- On submitting, navigate the user to the second activity "MainActivity_Skills".
- Using Intent Display details inputted in Registration Activity on "ManinActivity_Skills".

Note: Adhar no. must be an integer value (Eg: 1234)

Assignment 4

Aim: Performing CRUD on ListView along with validation and User-defined functions using Toast.

Task: Referring to Assignment 2, modify the "MainActivity skills" activity to prompt users to input a minimum of three skills they are proficient in. Add the following UI controls:



Operations:

- 1. Add: Insert and display the skills in the ListView. Show a Toast message.
- 2. **Select:** Change the color of the selected item (android: listSelector) and display it in a Toast.
- 3. **Update:** Modify the selected item. Show a Toast message for a successful update.
- 4. **Remove:** Delete the selected item on **long-press** and show a Toast message.

Note: Create a user-defined function CallToast(String s) to display messages for CRUD operations.

Advance: Implement validation to ensure the skill textbox is not empty when inserting or editing data. Display appropriate messages in Toast.

Assignment 5

Aim: Managing Shared Preferences across multiple activities.

Task: Create the following activities: 1) MainActivity login 2) MainActivity details

Log in using the following credentials:

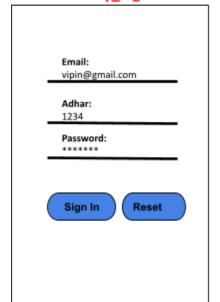
Email: vipin@gmail.com (String)
Adhaar number: 1234 (Integer)

Password: Vipin

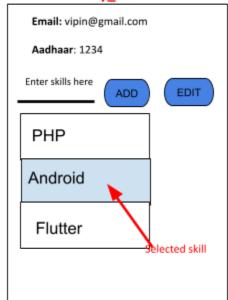
- 1. Upon successful login, save email and Adhaar in Shared Preferences and display it on "MainActivity skill" (created in a previous assignment).
- 2. Add skills to the ListView, preserve the selected skill in Shared Preferences, and store it.
- 3. Retrieve the **email, Adhaar, and skill** from Shared Preferences on a button click event, and display them in the newly created activity "MainActivity details."
- 4. Remove data from Shared Preferences on Signing Out and navigate to "MainActivity_Login".

Output Example:

MainActivity_login



MainActivity_skill



MainActivity_details

Email: vipin@gmail.com

Aadhaar: 1234

Skills: Android

Assignment 6

Aim: Implementing Menus and web View

Task 1:

Referring to assignment 5, implement the **Options Menu in "MainActivity_details"** with the following options:

- 1) "Skill": Navigate to the "MainActivity_skills" activity.
- 2) "About SRKI": Display an About page using WebView when selected
 - a) Create a new activity named "AboutActivity".
 - b) In "AboutActivity", use a WebView to load https://www.srki.ac.in/.
- 3) "Logout": Clear data from shared preference and navigate to login activity

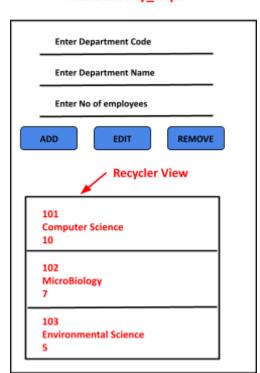
Task 2:

Referring to assignment 4, implement a **pop-up menu on Listview in "MainActivity_skills".** Allow the user to delete selected skills.

Admin Dashboard Enhancement: Department Management Assignment 7

Aim: To develop an admin-side module by using **RecyclerView** to display and manage a list of departments with **ArrayList<String[]>** as the data source.

Task: Create a new activity, "MainActivity_dept," (refer to the figure below) to use RecyclerView for displaying and managing department information.



MainActivity_dept

Operations:

- 1. **Create:** Add department details, including Code, Name, and Number of Employees.
- 2. **Remove:** Implement functionality to delete department details using the Department Code.
- 3. **Update:** Develop an edit feature to modify department details based on the Department Code.
- 4. **Display:** Use RecyclerView to showcase the list of departments.

Assignment 8

Aim: To develop a department management feature in the SRKI Recruitment App using **SQLite**, supporting CRUD (Create, Read, Update, Delete) operations and including a **SearchView** for efficient searching.

Task: Implement CRUD operations for department management in an SQLite database.

Database Table:

Tbl_dept: (dept_code - int primary key autoincrement, dept_name, num_employees)

Operations

- **Create:** Allow the user to register department details (Dept Name, Dept Code, Number of Employees) in the SQLite database.
- **Read:** Display registered department details in a ListView. Use ArrayList<String[]> to show multiple pieces of information for each department.
- **Update:** Allow the user to update department details using dept code.
- **Delete:** Allow the user to delete department details using dept_code.
- **Search:** Implement a **SearchView** to allow users to search for department details.

Advanced:

- Add a **context menu** to the ListView to enable data deletion, triggered by a long click on list items.
- Prompt an alert dialog box for confirmation before deleting a record.

Assignment 9

Aim: Performing CRUD Operations on MS SQL Server Database.

Task: Referring to Assignment 8, incorporate functionality for storing and retrieving data from the MS SQL Server database.