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| MOBILE APPLICATIONS DEVELOPMENT LAB  CSLR-34 |

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| 09/04/2021 | Lab 8 |

Submitted By: -

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**CSE**

QUESTION-1: Design an Android application for Course Registration using Android Studio with the following specifications.

i) In an activity, have a login page with username, password and login button. The username will be the roll number of the student and password will be their name (stored in sqlite database). Display error messages using toasts if wrong credentials.

ii) Upon logging in, have an activity where the user can select a list of subjects from checkboxes and upon clicking on submit button, update database and open another activity and display the selected subjects with toast “registration successful”. Have a button, upon clicking, the name of the other students who registered the subjects which the user registered, should be displayed

iii) Have a menu with a list of menu items such as Logout, Change password, Exit app.

* Logout - Logout and redirect to the login page.
* Change password - Redirect to a page where take inputs such as current password, new password (using textviews and text boxes) and a submit button. Upon clicking the button, check whether the password matches and if doesn’t match, display error with toasts and clear the typed contents of the textboxes.
* Exit - Close the app.

**EXPERIMENT NAME**: To create an application for Course Registration.

**AIM:** To create an application for Course Registration.

**DESCRIPTION OF APP:**

* There is a login page with username, password and login button.
* The username is the roll number of the student and password is their name which will be stored in sqlite database
* If one enters wrong credentials error message is shown in the toast
* After logging in, the user can select a list of subjects from checkbox
* Upon Clicking on submit button, the database will be updated and another activity will be opened displaying selected subjects with toast “registration successful”. Another button is there to display name of other students who registered the subjects which the user registered
* There is a main menu consisting logout, change password, exit app options

**DEVICE SPECIFICATION:**

**Device Name: -** Samsung S10  
**Android Version: - Android 11**  
**API Level: -** 30  
**Screen Size: -** 6 inch

**TECHNICAL CONCEPTS LEARNT:**

* **Intents :** To connect activities with activities or components.
* **Explicit Intent :** To link two activites
* **Implicit Intent :** To link our activity to activities of other apps or components
* **Toast:** To show a short time pop-up message
* **Intent.putExtra :** To pass parameters using intents
* **SetOnClickListener :** To define an action when a view is clicked
* **TextView :** View related to showing text
* **Button :** Viewto perform actions when clicked on them
* **RadioGroup :** To group department choices
* **RadioButton :** To show department choices

**SOURCE CODE:**

**MainActivity.java**

**Activity\_main.xml**

**Screenshot:**

**Outcome:**

* Intent, Implicit Intent, Explicit Intent, Button views, Radio Group, Radio Button are used to build this application successfully.
* All specifications are successfully executed.
* I learned AVD manager functionality, how to attach SQLite database in android studio.