

EXPERIMENT – 10

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Branch: CSE

Section: 608/A

Sem: 06

Subject: MAD LAB

AIM: Create an android app for user registration that stores the user details in a database table.

XML CODE:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/textView3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="24sp"
        android:textStyle="bold" />
    <EditText
        android:id="@+id/idEdtCourseName"
        android:gravity="center"
        android:hint="Enter course Name"
        android:padding="10dp" />
    <EditText
        android:id="@+id/idEdtCourseDuration"
```

```
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_margin="10dp"
android:padding="10dp" />
```

<EditText

```
android:id="@+id/idEdtCourseTracks"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:hint="Enter Credits"
android:padding="10dp" />
```

<EditText

```
android:id="@+id/idEdtCourseDescription"
android:layout_width="match_parent"
android:hint="Enter Course Description"
android:padding="10dp" />
```

<Button

```
android:id="@+id/idBtnAddCourse"
android:layout_width="match_parent"
android:textAllCaps="false" />
```

<androidx.constraintlayout.widget.ConstraintLayout

```
android:layout_width="match_parent"
android:layout_height="match_parent">
```

<TextView

```
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toStartOf="@+id/showDuration"
app:layout_constraintVertical_bias="0.255" />
```

<TextView

```
        android:id="@+id/showNames"

        android:layout_width="108dp"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/textView2"

        app:layout_constraintVertical_bias="0.255" />

<TextView

        android:id="@+id/showDuration"

        app:layout_constraintStart_toEndOf="@+id/showCredits"

        app:layout_constraintTop_toBottomOf="@+id/textView5"

        app:layout_constraintVertical_bias="0.285" />

</androidx.constraintlayout.widget.ConstraintLayout>

</LinearLayout>
```

DBHandler.java

```
public class DBHandler extends SQLiteOpenHelper

{   private static final String DB_NAME =

    "coursedb";private static final int DB_VERSION

    = 1;

    private static final String TABLE_NAME =

    "mycourses";private static final String TRACKS_COL

    = "Credits"; public DBHandler(Context context) {

        super(context, DB_NAME, null, DB_VERSION);

    }

    @Override

    public void onCreate(SQLiteDatabase db) {

        String query = "CREATE TABLE " + TABLE_NAME + " ("

            + ID_COL + " INTEGER PRIMARY KEY AUTOINCREMENT, "
```

```
+ NAME_COL + " TEXT,"
+ DURATION_COL + " TEXT,"
+ DESCRIPTION_COL + " TEXT,"
+ TRACKS_COL + " TEXT)";

db.execSQL(query);
}

public void addNewCourse(String courseName, String courseDuration, String
courseDescription, String courseTracks) {

    SQLiteDatabase db = this.getWritableDatabase();

    ContentValues values = new ContentValues();

    db.insert(TABLE_NAME, null, values);

    db.close();
}

@Override

public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion)

    {db.execSQL("DROP TABLE IF EXISTS " + TABLE_NAME);

    onCreate(db);

}}
```

MainActivity.class

```
public class MainActivity extends AppCompatActivity {

    private EditText courseNameEdt, courseTracksEdt, courseDurationEdt, courseDescriptionEdt;

    private Button addCourseBtn;

    public ArrayList<String> name = new

    ArrayList<String>(); public ArrayList<String> credits =

    new ArrayList<String>();public ArrayList<String> hours

    = new ArrayList<String>(); @Override
```

```
protected void onCreate(Bundle savedInstanceState)

{
    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);

    dbHandler = new DBHandler(MainActivity.this);

    addCourseBtn.setOnClickListener(new View.OnClickListener()
    {
        @Override

        public void onClick(View v) {

            String courseName = courseNameEdt.getText().toString();

            String courseTracks = courseTracksEdt.getText().toString();

            name.add(courseName);

            credits.add(courseTracks);

            hours.add(courseDuration);


            String temp="";

            for(String val:

            name){

                temp += val+"\n";

                showcredits.setText(temp);

                temp="";

                for(String val:

                hours){ temp +=

                val+"\n";

                }

                showhours.setText(temp);

                if (courseName.isEmpty() && courseTracks.isEmpty() && courseDuration.isEmpty()

                &&courseDescription.isEmpty()) {

                    Toast.makeText(MainActivity.this, "Please enter all the data..",

                    Toast.LENGTH_SHORT).show();

                    return;

                }

            }
        }
    }
}
```

```
dbHandler.addNewCourse(courseName, courseDuration, courseDescription,  
courseTracks);
```

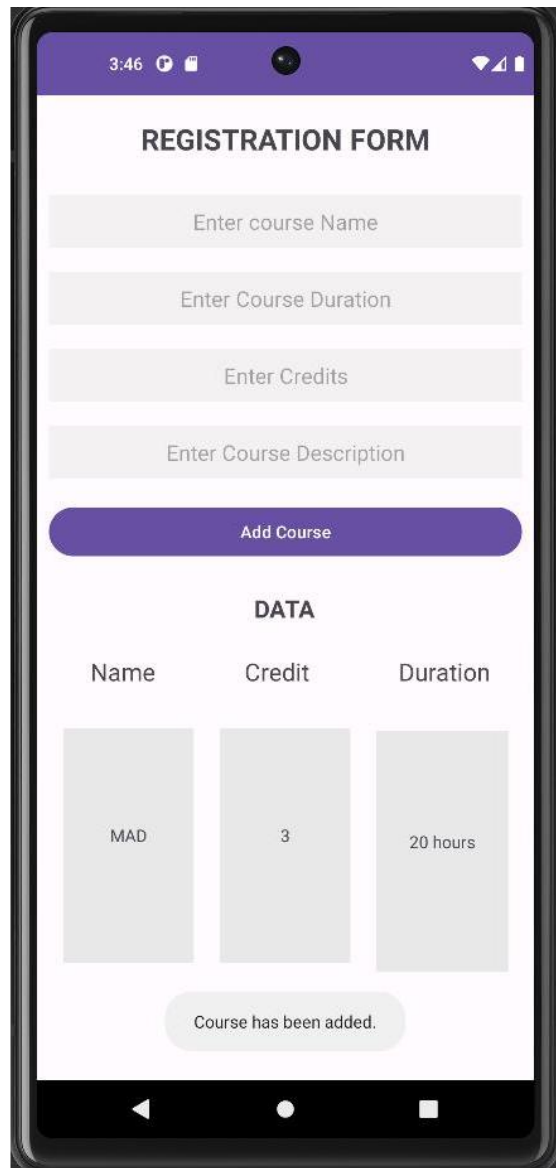
```
Toast.makeText(MainActivity.this, "Course has been added.",  
Toast.LENGTH_SHORT).show();
```

```
courseTracksEdt.setText("");
```

```
courseDescriptionEdt.setText("");
```

```
}});}}
```

OUTPUT:



The screenshot shows a mobile application interface with a purple header bar. The status bar at the top displays the time 3:46 and various icons. The app title "REGISTRATION FORM" is centered at the top of the screen. Below the title, there are four text input fields with placeholder text: "Enter course Name", "Enter Course Duration", "Enter Credits", and "Enter Course Description". A purple button labeled "Add Course" is positioned below these fields. Underneath the button, the section is titled "DATA". It contains a table with three columns: "Name", "Credit", and "Duration". The table has one data row with the values "MAD", "3", and "20 hours". At the bottom of the screen, a light gray toast message box displays the text "Course has been added.".

Name	Credit	Duration
MAD	3	20 hours