### **Experiment 10**

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Branch: CSE Section/Group: 20BCS\_DM-708B

Semester: 6th Subject Name: MAD Lab

Subject Code: 20CSP-356

**AIM:** Create an Android application for user registration that stores the user details in a database table.

#### Source code:

### activity\_main.xml=

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
   xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   android:orientation="vertical"
   tools:context=".MainActivity">
   <EditText
      android:id="@+id/idEdtCourseName"
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:layout_margin="10dp"
      android:hint="@string/enter_course_name" />
   <EditText</pre>
```

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```
android:id="@+id/idEdtCourseDuration"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="10dp"
    android:hint="@string/enter_course_duration" />
  <EditText
    android:id="@+id/idEdtCourseTracks"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="10dp"
    android:hint="@string/enter course tracks" />
  <EditText
    android:id="@+id/idEdtCourseDescription"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="10dp"
    android:hint="@string/enter_course_description" />
  <Button
    android:id="@+id/idBtnAddCourse"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="10dp"
    android:text="@string/add_course"
    android:textAllCaps="false" />
</LinearLayout>
```

### MainActivity.java=

```
package com.example.exp_9;
import androidx.appcompat.app.ActionBar;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
import java.util.Objects;
public class MainActivity extends AppCompatActivity {
  private EditText courseNameEdt, courseTracksEdt, courseDurationEdt,
       courseDescriptionEdt;
  private Button addCourseBtn;
  private DBHandler dbHandler;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    ActionBar act = getSupportActionBar();
    Objects.requireNonNull(act).setTitle("Exp 10");
    courseNameEdt = findViewById(R.id.idEdtCourseName);
    courseTracksEdt = findViewById(R.id.idEdtCourseTracks);
    courseDurationEdt = findViewByld(R.id.idEdtCourseDuration);
    courseDescriptionEdt = findViewById(R.id.idEdtCourseDescription);
    addCourseBtn = findViewById(R.id.idBtnAddCourse);
```

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```
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();
              String courseDuration =
                   courseDurationEdt.getText().toString();
              String courseDescription =
                   courseDescriptionEdt.getText().toString();
              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();
              courseNameEdt.setText("");
              courseDurationEdt.setText("");
              courseTracksEdt.setText("");
              courseDescriptionEdt.setText("");
            }
         });
  }
}
```

### DBHandler.java

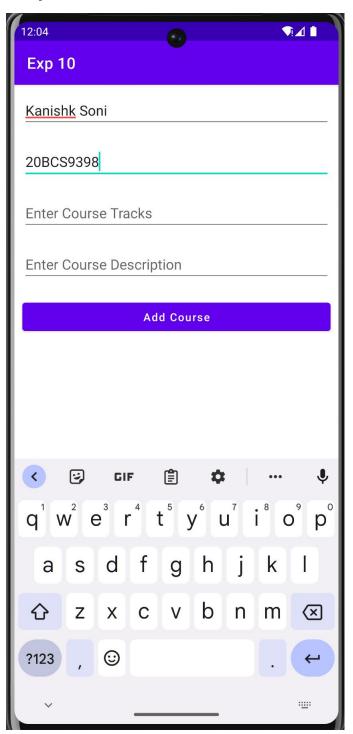
```
package com.example.exp_9;
import android.content.ContentValues;
import android.content.Context;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
public class DBHandler extends SQLiteOpenHelper {
  private static final String DB_NAME = "coursedb";
  private static final int DB_VERSION = 1;
  private static final String TABLE NAME = "mycourses";
  private static final String ID_COL = "id";
  private static final String NAME_COL = "name";
  private static final String DURATION COL = "duration";
  private static final String DESCRIPTION COL = "description";
  private static final String TRACKS_COL = "tracks";
  public DBHandler(Context context) {
    super(context, DB NAME, null, DB VERSION);
  }
  @Override
  public void onCreate(SQLiteDatabase db) {
    String guery = "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();
  values.put(NAME_COL, courseName);
  values.put(DURATION_COL, courseDuration);
  values.put(DESCRIPTION_COL, courseDescription);
  values.put(TRACKS_COL, courseTracks);
  db.insert(TABLE_NAME, null, values);
  db.close();
}
@Override
public void on Upgrade (SQLite Database db, int old Version, int
    newVersion) {
  db.execSQL("DROP TABLE IF EXISTS " + TABLE_NAME);
  onCreate(db);
}
```



### **Output:**





Database Entries from Database Inspector:

