

# **Surprise Test**

## **Chandigarh University**



**Subject:- Advanced MAD**

**Surprise test**

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**Q1. Create a Small android application that will be able to provide the following functionality:**

**Enter username and password for login.**

**Show the welcome username screen if the user login successfully.**

**Allow the welcome username screen if the user login successfully.**

**Allow user to change password by entering old to new password.**

**Allow user to Edit and update username from Database.**

### **Main Activity**

#### **XML Code:**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity"
    android:background="@drawable/image"
    android:orientation="vertical">

    <TextView
        android:text="WelCome Admin"
        android:textColor="#17202A"
        android:textSize="40dp"
        android:layout_marginTop="20dp"
        android:layout_gravity="center"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />
    <Button
        android:id="@+id/admin"
        android:text="Admin"
        android:textSize="20dp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginTop="100dp"/>

</LinearLayout>
```

**Java Code:**

```
package com.example.studentportals;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {
    private Button Admin;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Admin=(Button)findViewById(R.id.admin);

        Admin.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i=new Intent(MainActivity.this,AdminLogin.class);
                startActivity(i);
            }
        });
    }
}
```

**XML file:****Login activity;**

```
<?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:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/colorPrimary"
    tools:context=".AdminLogin">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginTop="30dp"
        android:text="Welcome "
        android:textSize="40dp"/>
    <TextView
        android:id="@+id/totalcount"
        android:layout_margin="10dp"
        android:text="UserName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />
    <EditText
        android:id="@+id/uname"
        android:layout_width="fill_parent"
        android:layout_height="50dp" />
    <TextView
        android:id="@+id/psw"
        android:layout_margin="10dp"
        android:text="Password"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />
    <EditText
        android:id="@+id/password"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPassword" />

    <Button
        android:id="@+id/login"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
```

```
android:layout_marginTop="30dp"  
android:padding="20dp"  
android:text="Login" />
```

```
</LinearLayout>
```

## Login activity java code:

```
package com.example.studentportals;
```

```
import android.app.Activity;  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;
```

```
public class AdminLogin extends Activity {  
    EditText uname, pswd;  
    Button login;  
    DbHandler db;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.adminlogin);  
        uname = (EditText) findViewById(R.id.uname);  
        pswd = (EditText) findViewById(R.id.password);  
        login = (Button) findViewById(R.id.login);  
        login.setOnClickListener(new View.OnClickListener() {  
            @Override  
            public void onClick(View v) {  
                String name = uname.getText().toString();  
                String password = pswd.getText().toString();  
                int id = checkUser(new User(name, password));  
  
                if (uname.getText().toString().trim().length() == 0) {  
                    uname.setError("Username is not entered");  
                    uname.requestFocus();  
                }  
                if (pswd.getText().toString().trim().length() == 0) {  
                    pswd.setError("Password is not entered");  
                    pswd.requestFocus();  
                }  
            }  
        });  
    }  
}
```

```

        if (id == -1) {
            Toast.makeText(AdminLogin.this, " Does Not Exist",
                Toast.LENGTH_SHORT).show();
        } else {
            Toast.makeText(AdminLogin.this, "Admin Exist " + name,
                Toast.LENGTH_SHORT).show();
            Intent i = new Intent(AdminLogin.this, AdminDetail.class);
            startActivity(i);
        }
    }
});
db = new DbHandler(AdminLogin.this);
//inserting dummy users
db.addUser(new User("Aakshi", "Thakur"));
}

public int checkUser(User user) {
    return db.checkUser(user);
}
}

```

**Welcome page where admin can perform some operations.**

### XML code:

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#73C6B6">

    <de.hdodenhof.circleimageview.CircleImageView
        android:layout_width="250dp"
        android:layout_height="250dp"
        android:id="@+id/image"
        android:layout_marginLeft="60dp"
        android:layout_marginTop="50dp"
        android:src="@drawable/collage"
    />

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginTop="100dp">

```

```

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/addteacher"
    android:text="Add Teacher"
    android:textColor="#C39BD3"
/>
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/dent"
    android:text="Add Student"
    android:textColor="#C39BD3"
/>

```

```

</LinearLayout>
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/aakshi"
    android:text="Add Parents"
    android:layout_gravity="center"
    android:layout_marginTop="20dp"
    android:textColor="#C39BD3"/>

```

```

</LinearLayout>

```

## Java code:

```

package com.example.studentportals;

```

```

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

```

```

public class AdminDetail extends Activity {
    Button student;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.adminidetail);

```

```

        Toast.makeText(AdminDetail.this, " Does Not Exist", Toast.LENGTH_SHORT).show();

```

```

student=(Button)findViewById(R.id.dent);

student.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i=new Intent(AdminDetail.this,AddStudent.class);
        startActivity(i);
    }
});

}

}

```

**Allow user to Edit and update username from Database.**

### **XML CODE:**

```

<?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:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".AddStudent"
    android:background="#D98880">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginTop="20dp"
        android:text=" Register Of Student"
        android:textSize="40dp"
    />

    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/stuid"
        android:hint=" id"
        android:layout_gravity="center"
        android:layout_marginTop="20dp"
    />

```



```
<EditText
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/stuname"
    android:hint=" Student name"
    android:layout_gravity="center"
    android:layout_marginTop="20dp"
/>
<EditText
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/stusubject"
    android:hint=" course name"
    android:layout_gravity="center"
    android:layout_marginTop="20dp"
/>
<EditText
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/stucontact"
    android:hint=" Student contact"
    android:layout_gravity="center"
    android:layout_marginTop="20dp"
/>
<EditText
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/stuemail"
    android:hint="enter email id"
    android:layout_gravity="center"
    android:layout_marginTop="20dp"
/>
<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="30dp"
    android:layout_gravity="center">
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/stusubmit"

        android:text="Add"/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/stuview"
```

```

        android:text="view"/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/stuupdate"
        android:text="Update "/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/studelete"

        android:text="Delete "/>

/>

</LinearLayout>

</LinearLayout>

```

## JAVA Code:

```

package com.example.studentportals;

import android.app.Activity;
import android.app.AlertDialog;
import android.content.Intent;
import android.database.Cursor;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class AddStudent extends Activity {
    DbHandler db;
    EditText stuname, stusubject, stucontact, stuemail, stuid;
    Button stusubmit, stuvview, stuupdate, studelete;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.addstudent);
        stuname=(EditText)findViewById(R.id.stuname);
        stusubject=(EditText)findViewById(R.id.stusubject);

```

```

        studelete=(Button) findViewById(R.id.studelete);
        stuemail=(EditText)findViewById(R.id.stuemail);
        stuid=(EditText)findViewById(R.id.stuid);
        stucontact=(EditText)findViewById(R.id.stucontact);
        stusubmit=(Button)findViewById(R.id.stusubmit);
        stuvview=(Button)findViewById(R.id.stuvview);
        stuupdate=(Button)findViewById(R.id.stuupdate);
        db=new DbHandler(this);
        AddData();
        viewall();
        UpdateData();
        DeleteData();
    }

    public void DeleteData()
    {
        studelete.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if (stuid.getText().toString().trim().length() == 0) {
                    stuid.setError("ID is not entered");
                    stuid.requestFocus();
                }
                Integer deleteRows=db.deleteDatastu(stuid.getText().toString());
                if(deleteRows >0)
                {
                    Toast.makeText(AddStudent.this," Data is deleted
",Toast.LENGTH_SHORT).show();
                }
                else
                {
                    Toast.makeText(AddStudent.this," Data is not deleted
",Toast.LENGTH_SHORT).show();
                }
            }
        });
    }

    public void UpdateData()
    {
        if (stuid.getText().toString().trim().length() == 0) {
            stuid.setError("ID is not entered");
            stuid.requestFocus();
        }

        stuupdate.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

```

```

        boolean
isupdate=db.updatestu(stuid.getText().toString(),stuname.getText().toString(),stusubject.ge
tText().toString(),stucontact.getText().toString(),stuemail.getText().toString());
        if(isupdate==true) {
            Toast.makeText(AddStudent.this, "Data Updated",
Toast.LENGTH_SHORT).show();
        }
        else
        {
            Toast.makeText(AddStudent.this,"Data is not
Updated",Toast.LENGTH_SHORT).show();
        }
    }
});
}

public void AddData()
{
    stusubmit.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {

            if (stuname.getText().toString().trim().length() == 0) {
                stuname.setError("Username is not entered");
                stuname.requestFocus();
            }
            if (stusubject.getText().toString().trim().length() == 0) {
                stusubject.setError("subject is not entered");
                stusubject.requestFocus();
            }
            if (stucontact.getText().toString().trim().length() == 0) {
                stucontact.setError("contact is not entered");
                stucontact.requestFocus();
            }
            if (stuemail.getText().toString().trim().length() == 0) {
                stuemail.setError("email is not entered");
                stuemail.requestFocus();
            }
            boolean inserted=
db.insertdatastu(stuname.getText().toString(),stusubject.getText().toString(),stucontact.get
Text().toString(),stuemail.getText().toString());
            if(inserted==true)

                Toast.makeText(AddStudent.this,"Data
inserted",Toast.LENGTH_SHORT).show();
            else

                Toast.makeText(AddStudent.this,"Data is not

```

```

inserted",Toast.LENGTH_SHORT).show();
    }
});

}
public void viewall()
{
    stuvview.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Cursor res= db.getAllDatastu();
            if(res.getCount()==0)
            {
                showdata("Error","nothing found");
                return;
            }
            StringBuffer buffer=new StringBuffer();
            while(res.moveToNext())
            {
                buffer.append("id :"+ res.getString(0)+"\n");
                buffer.append("name :"+ res.getString(1)+"\n");
                buffer.append("subject :"+ res.getString(2)+"\n");
                buffer.append("contact :"+ res.getString(3)+"\n");
                buffer.append("email :"+ res.getString(4)+"\n");
            }
            showdata("Data",buffer.toString());
        }
    });
}

public void showdata(String title,String message)
{
    AlertDialog.Builder builder=new AlertDialog.Builder(this);
    builder.setCancelable(true);
    builder.setTitle(title);
    builder.setMessage(message);
    builder.show();
}

}

```

## DATABASE CLASS

```

package com.example.studentportals;

import android.content.ContentValues;

```

```

import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.widget.TextView;

class DbHandler extends SQLiteOpenHelper {
    private static final int Db_Version = 1;
    //Db Name
    private static final String Db_Name = "aakshi.db";
    //table name
    private static final String Table_Name = "user";
    private static final String Table1 = "marks";

    //Creating the tables

    private static final String col1 = "tid";
    private static final String col2 = "tname";
    private static final String col3 = "tsubject";
    private static final String col4 = "tcontact";
    private static final String col5 = "temail";

    private static final String User_id = "id";
    private static final String User_name = "name";
    private static final String User_password = "password";

    //creating student login

    public DbHandler(Context context) {
        super(context, Db_Name, null, Db_Version);
    }

    @Override
    public void onCreate(SQLiteDatabase db) {
        db.execSQL("create table " + Table1 + " ( sid integer primary key
        autoincrement,sname text,ssubject text,scontact text,semail text,marks text)");
        db.execSQL("create table " + Table3 + "(sid integer primary key
        autoincrement,sname text,ssubject text,scontact text,semail text)");
        db.execSQL("create table " + Table2 + "(tid integer primary key
        autoincrement,tname text,tsubject text,tcontact text,temail text)");
        db.execSQL("create table " + Table6 + "(pid integer primary key
        autoincrement,pname text,page text,pcontact text,pemail text)");
        String Create_Table = "CREATE TABLE " + Table_Name + "(" + User_id
        + " INTEGER PRIMARY KEY," + User_name + " TEXT," + User_password +
        " TEXT" + ")";
    }

```

```

        db.execSQL(Create_Table);
    }

```

#### @Override

```

public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
    db.execSQL("DROP TABLE IF EXISTS " + Table_Name);
    db.execSQL("DROP TABLE IF EXISTS " + Table2);
    db.execSQL("DROP TABLE IF EXISTS " + Table3);
    db.execSQL("DROP TABLE IF EXISTS " + Table6);
    db.execSQL("DROP TABLE IF EXISTS " + Table1);
    //create the table again
    onCreate(db);
}

public void addUser(User usr) {
    // getting db instance for writing the user
    SQLiteDatabase db = this.getWritableDatabase();
    ContentValues cv = new ContentValues();
    // cv.put(User_id,usr.getId());
    cv.put(User_name, usr.getName());
    cv.put(User_password, usr.getPassword());
    //inserting row
    db.insert(Table_Name, null, cv);
    //close the database to avoid any leak
    db.close();
}

public int checkUser(User us) {
    int id = -1;
    SQLiteDatabase db = this.getReadableDatabase();
    Cursor cursor = db.rawQuery("SELECT id FROM user WHERE name=? AND password=?", new String[]{us.getName(), us.getPassword()});
    if (cursor.getCount() > 0) {
        cursor.moveToFirst();
        id = cursor.getInt(0);
        cursor.close();
    }
    return id;
}

public boolean insertdatastu(String sname, String ssubject, String scontact, String semail) {
    SQLiteDatabase db = this.getWritableDatabase();
    ContentValues contentValues = new ContentValues();
    contentValues.put(sol2, sname);
    contentValues.put(sol3, ssubject);
    contentValues.put(sol4, scontact);
    contentValues.put(sol5, semail);
    long result = db.insert(Table3, null, contentValues);
    if (result == -1) {

```

```
        return false;
    } else {
        return true;
    }
}

public Cursor getAllDatastu() {
    SQLiteDatabase db = this.getWritableDatabase();
    Cursor res = db.rawQuery("select * from " + Table3, null);
    return res;
}

public boolean updatestu(String sid, String sname, String ssubject, String scontact, String
semail) {

    SQLiteDatabase db = this.getWritableDatabase();
    ContentValues contentValues = new ContentValues();
    contentValues.put(sol1, sid);
    contentValues.put(sol2, sname);
    contentValues.put(sol3, ssubject);
    contentValues.put(sol4, scontact);
    contentValues.put(sol5, semail);
    db.update(Table3, contentValues, "sid=?", new String[]{sid});
    return true;
}

public Integer deleteDatastu(String sid) {
    SQLiteDatabase db = this.getWritableDatabase();
    return
        db.delete(Table3, "sid=? ", new String[]{sid});
}
}
```

**Output:**





