**Experiment 10**

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**Branch: CSE Section/Group: 716/B**

**Semester: 6th Date of Performance: 6 May 2023**

**Subject Name: MAD Lab**

**AIM** :

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

**Objective:**

1. To know About the App widgets and how to use them.
2. Learn to scroll and drag in Andros studio.
3. how to code for app widgets.
4. Use of checkbox
5. Use of menu and layout of relative and constraint
6. Use of sql database

**MainActivity.java**

**package** com.learnandroid.loginsqlite;

**import** androidx.appcompat.app.AppCompatActivity;

**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** MainActivity **extends** AppCompatActivity {

EditText username, password, repassword;

Button signup, signin;

DBHelper DB;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

username = (EditText) findViewById(R.id.username);

password = (EditText) findViewById(R.id.password);

repassword = (EditText) findViewById(R.id.repassword);

signup = (Button) findViewById(R.id.btnsignup);

signin = (Button) findViewById(R.id.btnsignin);

DB = **new** DBHelper(**this**);

signup.setOnClickListener(**new** View.OnClickListener() {

@Override

**public void** onClick(View view) {

String user = username.getText().toString();

String pass = password.getText().toString();

String repass = repassword.getText().toString();

**if**(user.equals(**""**)||pass.equals(**""**)||repass.equals(**""**))

Toast.makeText(MainActivity.**this**, **"Please enter all the fields"**, Toast.LENGTH\_SHORT).show();

**else**{

**if**(pass.equals(repass)){

Boolean checkuser = DB.checkusername(user);

**if**(checkuser==**false**){

Boolean insert = DB.insertData(user, pass);

**if**(insert==**true**){

Toast.makeText(MainActivity.**this**, **"Registered successfully"**, Toast.LENGTH\_SHORT).show();

Intent intent = **new** Intent(getApplicationContext(),HomeActivity.**class**);

startActivity(intent);

}**else**{

Toast.makeText(MainActivity.**this**, **"Registration failed"**, Toast.LENGTH\_SHORT).show();

}

}

**else**{

Toast.makeText(MainActivity.**this**, **"User already exists! please sign in"**, Toast.LENGTH\_SHORT).show();

}

}**else**{

Toast.makeText(MainActivity.**this**, **"Passwords not matching"**, Toast.LENGTH\_SHORT).show();

}

} }

});

signin.setOnClickListener(**new** View.OnClickListener() {

@Override

**public void** onClick(View view) {

Intent intent = **new** Intent(getApplicationContext(), LoginActivity.**class**);

startActivity(intent);

}

});

}

}

# MainActivity.xml

<?**xml version="1.0" encoding="utf-8"**?>

<**RelativeLayout 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"**

**android:padding="10dp"**

**tools:context=".MainActivity"**>

<**EditText**

**android:id="@+id/username"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:hint="User Name"**

**android:layout\_marginTop="50dp"**/>

<**EditText**

**android:id="@+id/password"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:hint="Password"**

**android:layout\_marginTop="50dp"**

**android:layout\_below="@+id/username"**/>

<**EditText**

**android:id="@+id/repassword"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:hint="Retype Password"**

**android:layout\_marginTop="50dp"**

**android:layout\_below="@+id/password"**/>

<**Button**

**android:id="@+id/btnsignup"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:text="Register"**

**android:layout\_marginTop="50dp"**

**android:layout\_below="@+id/repassword"**/>

<**Button**

**android:id="@+id/btnsignin"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:text="Existing user! Go to Sign in page"**

**android:layout\_marginTop="50dp"**

**android:layout\_below="@+id/btnsignup"**/>

</**RelativeLayout**>

**activity\_login.xml**

<?**xml version="1.0" encoding="utf-8"**?>

<**RelativeLayout 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"**

**android:padding="10dp"**

**tools:context=".LoginActivity"**>

<**EditText**

**android:id="@+id/username1"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:hint="User Name"**

**android:layout\_marginTop="50dp"**/>

<**EditText**

**android:id="@+id/password1"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:hint="Password"**

**android:layout\_marginTop="50dp"**

**android:layout\_below="@+id/username1"**/>

<**Button**

**android:id="@+id/btnsignin1"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:text="Sign in"**

**android:layout\_marginTop="50dp"**

**android:layout\_below="@+id/password1"**/>

</**RelativeLayout**>

**LoginActivity.java**

**package** com.learnandroid.loginsqlite;

**import** androidx.appcompat.app.AppCompatActivity;

**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** LoginActivity **extends** AppCompatActivity {

EditText username, password;

Button btnlogin;

DBHelper DB;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.activity\_login);

username = (EditText) findViewById(R.id.username1);

password = (EditText) findViewById(R.id.password1);

btnlogin = (Button) findViewById(R.id.btnsignin1);

DB = **new** DBHelper(**this**);

btnlogin.setOnClickListener(**new** View.OnClickListener() {

@Override

**public void** onClick(View view) {

String user = username.getText().toString();

String pass = password.getText().toString();

**if**(user.equals(**""**)||pass.equals(**""**))

Toast.makeText(LoginActivity.**this**, **"Please enter all the fields"**, Toast.LENGTH\_SHORT).show();

**else**{

Boolean checkuserpass = DB.checkusernamepassword(user, pass);

**if**(checkuserpass==**true**){

Toast.makeText(LoginActivity.**this**, **"Sign in successfull"**, Toast.LENGTH\_SHORT).show();

Intent intent = **new** Intent(getApplicationContext(), HomeActivity.**class**);

startActivity(intent);

}**else**{

Toast.makeText(LoginActivity.**this**, **"Invalid Credentials"**, Toast.LENGTH\_SHORT).show();

}

}

}

});

}

}

# OUTPUT:

 

