

Program No:4

Date:8/08/2024

LOGIN FORM

AIM

Implement validation on various UI

activity_main.xml

```
<?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"
    android:orientation="vertical"
    android:textAlignment="textStart"
    app:layoutDescription="@xml/activity_main_scene"
    tools:context=".MainActivity">

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

        <TextView
            android:id="@+id/textView3"
            android:layout_width="417dp"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="Registartion form"
            android:textAlignment="center"
            android:textSize="20sp" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:orientation="horizontal">
```

```
    <TextView
```

```
        android:id="@+id/td"  
        android:layout_width="wrap_content"  
        android:layout_height="31dp"  
        android:layout_weight="1"  
        android:text="Name"  
        android:textSize="16sp" />
```

```
    <EditText
```

```
        android:id="@+id/ed_name"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:layout_weight="1"  
        android:ems="10"  
        android:hint="enter your name"  
        android:inputType="text"  
        android:onClick="enter your name" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:orientation="horizontal">
```

```
    <TextView
```

```
android:id="@+id/td1"
android:layout_width="208dp"
android:layout_height="wrap_content"
android:layout_weight="1"
android:text="Email"
android:textSize="16sp" />
```

```
<EditText
```

```
    android:id="@+id/ed_email"
    android:layout_width="377dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:ems="10"
    android:hint="enter your email"
    android:inputType="text" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="55dp"
    android:orientation="horizontal"
    android:textAlignment="gravity">
```

```
<TextView
```

```
    android:id="@+id/td2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="password"
    android:textSize="16sp" />
```

```
<EditText
```

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

```
    android:layout_width="251dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:ems="10"
    android:hint="enter your password"
    android:inputType="textPassword" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<TextView
```

```
    android:id="@+id/td3"
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:text="Gender"
    android:textAlignment="inherit"
    android:textSize="16sp" />
```

```
<RadioGroup
```

```
    android:id="@+id/rg_gender"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="horizontal">
```

```
<RadioButton
```

```
    android:id="@+id/r_female"
    android:layout_width="93dp"
    android:layout_height="38dp"
    android:text="male" />
```

```
<RadioButton
    android:id="@+id/r_male"
    android:layout_width="127dp"
    android:layout_height="wrap_content"
    android:text="Female" />
```

```
</RadioGroup>
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<CheckBox
    android:id="@+id/c_agree"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Agree" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<LinearLayout
    android:layout_width="156dp"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:orientation="horizontal"></LinearLayout>
```

```
<Button
    android:id="@+id/bn1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:onClick="onclick"
    android:text="Button"
    android:textAlignment="center" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

MainActivity.java

```
package com.example.registrationform;

import static com.example.registrationform.R.id.ed_email;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.CheckBox;

import android.widget.EditText;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {

    EditText name;

    EditText email;

    EditText pass;

    RadioGroup gender;

    RadioButton r_female;


    CheckBox agree;

    Button bn;

    Boolean isAllFieldsChecked;

    String setError;


    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        name=findViewById(R.id.ed_name);

        email=findViewById(ed_email);

        pass=findViewById(R.id.ed_pass);

        gender=findViewById(R.id.rg_gender);

        agree=findViewById(R.id.c_agree);

        bn=findViewById(R.id.bn1);

    }

    public void onclick(View view) {

        isAllFieldsChecked=checkAllFields();

        if(isAllFieldsChecked) {

            Toast.makeText(this, "SUCCESSFULLY", Toast.LENGTH_SHORT).show();

        }

    }

    private boolean checkAllFields(){

        if (name.length() == 0) {
```

```
name.setError("name is required");
return false;
}

if (email.length() == 0) {
    email.setError("email is required");
    return false;
} else {
    String email1 = email.getText().toString();
    String checkEmail = "[a-zA-Z0-9._-]+@[a-z]+.[a-z]";
    if (!email1.matches(checkEmail)) {
        email.setError("select email");
        return false;
    }
}

if (pass.length() == 8) {
    pass.setError("name is required");
    return false;
}

if (gender.getCheckedRadioButtonId() == -1) {
    r_female.setError("select gender");
    r_female.requestFocus();
    return false;
}

if (!agree.isChecked()) {
    agree.setError("please agree");
    agree.requestFocus();
    return false;
}

return true;
```


}

}

OUTPUT

Registartion form

Name Fathima

Email fathima@gmail.com

password

Gender ☐ male ☒ Female

☒ Agree

Button

1 2 3 4 5 6 7 8 9 0
q w e r t y u i o p
a s d f g h j k l
↑ z x c v b n m ×
?123 , . ✓

SUCCESSFULLY

Program No:5

Date:30/09/2024

APPLICATION USING INTENT AND SHARED PREFERENCES

AIM

Design a registration activity and stored in local memory of phone using intent and shared preferences.

activity_main.xml

```
<?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"
    android:orientation="vertical"
    android:textAlignment="textStart"
    tools:context=".MainActivity">

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

        <TextView
            android:id="@+id/textView3"
            android:layout_width="417dp"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="Registartion form"
            android:textAlignment="center"
            android:textSize="20sp" />

    </LinearLayout>
```

```
<LinearLayout  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:orientation="horizontal">  
  
    <TextView  
        android:id="@+id/td"  
        android:layout_width="wrap_content"  
        android:layout_height="31dp"  
        android:layout_weight="1"  
        android:text="Name"  
        android:textSize="16sp" />  
  
    <EditText  
        android:id="@+id/ed_name"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:layout_weight="1"  
        android:ems="10"  
        android:hint="enter your name"  
        android:inputType="text"  
        android:onClick="enter your name" />  
</LinearLayout>
```

```
<LinearLayout  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:orientation="horizontal">  
  
    <TextView
```

```
android:id="@+id/td1"
android:layout_width="208dp"
android:layout_height="wrap_content"
android:layout_weight="1"
android:text="Email"
android:textSize="16sp" />
```

```
<EditText
```

```
android:id="@+id/ed_email"
android:layout_width="377dp"
android:layout_height="wrap_content"
android:layout_weight="1"
android:ems="10"
android:hint="enter your email"
android:inputType="text" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
android:layout_width="match_parent"
android:layout_height="55dp"
android:orientation="horizontal"
android:textAlignment="gravity">
```

```
<TextView
```

```
android:id="@+id/td2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_weight="1"
android:text="password"
android:textSize="16sp" />
```

```
<EditText
    android:id="@+id/ed_pass"
    android:layout_width="251dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:ems="10"
    android:hint="enter your password"
    android:inputType="textPassword" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<TextView
    android:id="@+id/td3"
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:text="Gender"
    android:textAlignment="inherit"
    android:textSize="16sp" />
```

```
<RadioGroup
    android:id="@+id/rg_gender"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
```

```
android:orientation="horizontal">
```

```
<RadioButton
```

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

```
    android:layout_width="93dp"
```

```
    android:layout_height="38dp"
```

```
    android:text="male" />
```

```
<RadioButton
```

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

```
    android:layout_width="127dp"
```

```
    android:layout_height="wrap_content"
```

```
    android:text="Female" />
```

```
</RadioGroup>
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="wrap_content"
```

```
    android:orientation="horizontal">
```

```
<CheckBox
```

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

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_weight="1"
```

```
    android:text="Agree" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<LinearLayout
    android:layout_width="156dp"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:orientation="horizontal"></LinearLayout>
```

```
<Button
    android:id="@+id/bn1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:onClick="onclick"
    android:text="Button"
    android:textAlignment="center" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

MainActivity.java

```
package com.example.sharedpreferences;

import static com.example.sharedpreferences.R.id.ed_email;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
```

```
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    EditText name;

    EditText email;

    EditText pass;

    RadioGroup gender;

    RadioButton r_female;

    CheckBox agree;

    Button bn;

    Boolean isAllFieldsChecked;

    SharedPreferences sp;

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        name=findViewById(R.id.ed_name);

        email=findViewById(ed_email);

        pass=findViewById(R.id.ed_pass);

        gender=findViewById(R.id.rg_gender);

        agree=findViewById(R.id.c_agree);

        bn=findViewById(R.id.bn1);

        sp=getSharedPreferences("Login",MODE_PRIVATE);

    }
```



```
public void onclick(View view) {  
    isAllFieldsChecked=checkAllFields();  
    if(isAllFieldsChecked) {  
        SharedPreferences.Editor ed=sp.edit();  
        ed.putString("name",name.getText().toString());  
        ed.putString("email",email.getText().toString());  
        ed.putString("gender",gender.getCheckedRadioButtonId()==R.id.rg_gender?"male":"Female");  
        ed.commit();  
        Toast.makeText(this, "SUCCESSFULLY", Toast.LENGTH_SHORT).show();  
        Intent i=new Intent(MainActivity.this, MainActivity2.class);  
        startActivity(i);  
    }  
};
```

```
private boolean checkAllFields(){  
    if (name.length() == 0) {  
        name.setError("name is required");  
        return false;  
    }  
  
    if (email.length() == 0) {  
        email.setError("email is required");  
        return false;  
    } else {  
        String email1 = email.getText().toString();  
        String checkEmail = "[a-zA-Z0-9._-]+@[a-z]+.[a-z]";  
        if (!email1.matches(checkEmail)) {  
            email.setError("select email");  
            return false;  
        }  
    }  
}
```

```

        if (pass.length() == 8) {
            pass.setError("name is required");
            return false;
        }

        if (gender.getCheckedRadioButtonId() == -1) {
            r_female.setError("select gender");
            r_female.requestFocus();
            return false;
        }

        if (!agree.isChecked()) {
            agree.setError("please agree");
            agree.requestFocus();
            return false;
        }

        return true;
    }
}

```

activity_main2.xml

```

<?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"
    android:orientation="vertical"
    tools:context=".MainActivity2">

```

```
<TextView
    android:id="@+id/textView"
    android:layout_width="match_parent"
    android:layout_height="55dp"
    android:text="Registration"
    android:textAlignment="center"
    android:textSize="20sp" />
```

```
<TextView
    android:id="@+id/textView2"
    android:layout_width="match_parent"
    android:layout_height="45dp"
    android:text="name"
    android:textSize="20sp" />
```

```
<TextView
    android:id="@+id/textView4"
    android:layout_width="match_parent"
    android:layout_height="61dp"
    android:text="email"
    android:textSize="20sp" />
```

```
<TextView
    android:id="@+id/textView5"
    android:layout_width="match_parent"
    android:layout_height="46dp"
    android:text="gender"
    android:textSize="20sp" />
```

```
</LinearLayout>
```

MainActivity2.java

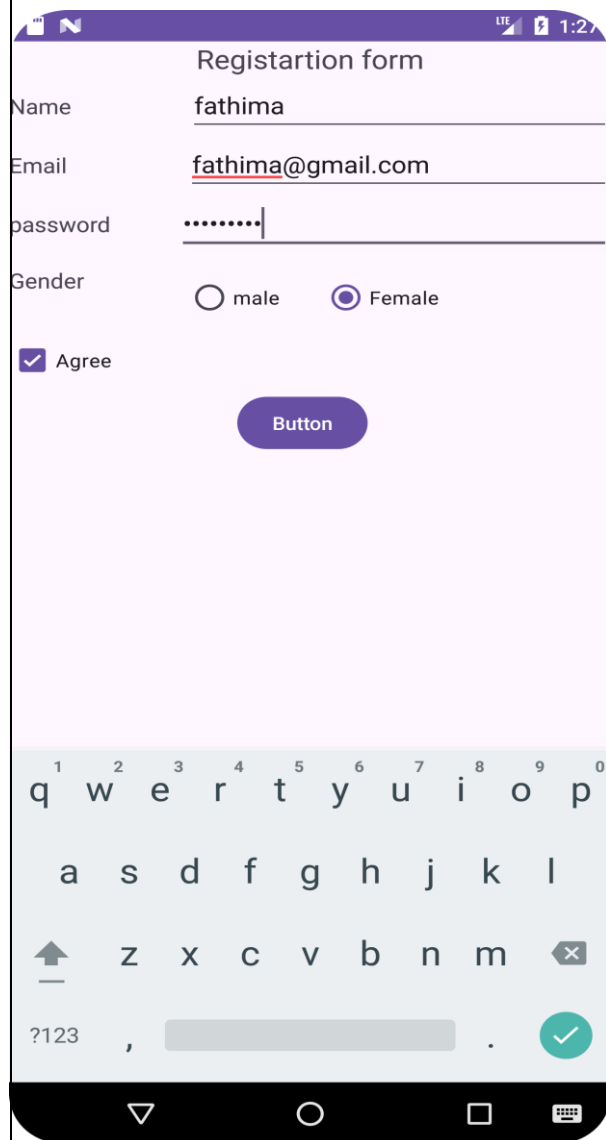
```
package com.example.sharedpreferences;
```

```
import androidx.appcompat.app.AppCompatActivity;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity2 extends AppCompatActivity {
    TextView displayname,displaymail,displaygender;
    SharedPreferences sp;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        Toast.makeText(this, "LOGIN SUCCESSFULLY COMPLETED", Toast.LENGTH_SHORT).show();
        displayname=findViewById(R.id.textView2);
        displaymail=findViewById(R.id.textView4);
        displaygender=findViewById(R.id.textView5);
        sp=getSharedPreferences("Login",MODE_PRIVATE);
        String name=sp.getString("name","fATHIMA");
        String email=sp.getString("email","fathima1@gmail.com");
        String gender=sp.getString("gender","female");
        displayname.setText ("Name:"+name);
        displaymail.setText ("Email:"+email);
        displaygender.setText ("Gender:"+gender);

    }
}
```

OUTPUT



Registration form

Name: fathima

Email: fathima@gmail.com

Password:

Gender: ☐ male ☒ Female

☒ Agree

Button

q w e r t y u i o p
a s d f g h j k l
↑ z x c v b n m
?123 , . ✓



Registration

Name:fathima

Email:fathima@gmail.com

Gender:Female

LOGIN SUCCESSFULLY COMPLETED