



MOBILE APPLICATION DEVELOPMENT

Lab 4



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BSCS-VII

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Activity 1: Create a Login Page

Layout

```
<?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:background="#125312"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/Email"
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:layout_gravity="center"
        android:layout_marginLeft="20dp"
        android:layout_marginTop="200dp"
        android:layout_marginRight="20dp"
        android:layout_weight="0"
        android:background="@color/white"
```

```
android:hint="Email"
android:inputType="textEmailAddress" />
```

<EditText

```
    android:id="@+id/password"
    android:layout_width="match_parent"
    android:layout_height="50dp"
    android:layout_gravity="center"
    android:layout_marginLeft="20dp"
    android:layout_marginTop="20dp"
    android:layout_marginRight="20dp"
    android:layout_weight="0"
    android:background="@color/white"
    android:hint="Password"
    android:inputType="textPassword"
```

```
/>
```

<Button

```
    android:id="@+id/button"
    android:layout_width="match_parent"
    android:layout_height="70dp"
    android:layout_gravity="center"
    android:layout_marginLeft="20dp"
    android:layout_marginTop="20dp"
    android:layout_marginRight="20dp"
    android:layout_weight="0"
    android:backgroundTint="@color/white"
    android:text="Login"
    android:textColor="#125312"
    android:onClick="login"
    />
```

<TextView

```
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:layout_marginTop="100dp"
    android:layout_weight="0"
    android:onClick="signup"
    android:text="Not a member ? Sign up now"
    android:textColor="@color/white"
    android:textSize="20sp" />
```

```
</LinearLayout>
```

```
<?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:background="#1D2E1D"
    android:orientation="vertical"
    tools:context=".Signup">
```

```
    <EditText
        android:id="@+id/Name"
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:layout_gravity="center"
        android:layout_marginLeft="20dp"
        android:layout_marginTop="200dp"
        android:layout_marginRight="20dp"
        android:layout_weight="0"
        android:background="#808080"
        android:hint="Fullname"
        android:inputType="textPersonName" />
```

```
    <EditText
        android:id="@+id/Email"
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:layout_gravity="center"
        android:layout_marginLeft="20dp"
        android:layout_marginTop="20dp"
        android:layout_marginRight="20dp"
        android:layout_weight="0"
        android:background="#808080"
        android:hint="Email"
        android:inputType="textEmailAddress" />
```

```
    <EditText
```

```
    android:id="@+id/password"
    android:layout_width="match_parent"
    android:layout_height="50dp"
    android:layout_gravity="center"
    android:layout_marginLeft="20dp"
    android:layout_marginTop="20dp"
    android:layout_marginRight="20dp"
    android:layout_weight="0"
    android:background="#808080"
    android:hint="Password"
    android:inputType="textPassword"
```

```
    />
```

```
<Button
```

```
    android:id="@+id/button"
    android:layout_width="match_parent"
    android:layout_height="70dp"
    android:layout_gravity="center"
    android:layout_marginLeft="20dp"
    android:layout_marginTop="20dp"
    android:layout_marginRight="20dp"
    android:layout_weight="0"
    android:backgroundTint="#FF1493"
    android:onClick="signup"
    android:text="Register"
    android:textColor="@color/white" />
```

```
<TextView
```

```
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:layout_marginTop="90dp"
    android:layout_weight="0"
    android:text="Already registered !Login Me."
    android:textColor="@color/white"
    android:textSize="20sp"
    android:onClick="login"
    />
```

```
</LinearLayout>
```

Logic Code

```
package com.example.login;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void login(View view){
        EditText Email=(EditText)findViewById(R.id.Email);
        EditText Password=(EditText)findViewById(R.id.password);

        SharedPreferences prefs=getSharedPreferences("user",MODE_PRIVATE);
        String d=prefs.getString(Email.getText().toString(),"none");
        Log.i("val",d);

        if(d.equals(Password.getText().toString()))
            Toast.makeText(this,"Login Successfully",Toast.LENGTH_LONG).show();
        else
            Toast.makeText(this, "Sign up first", Toast.LENGTH_LONG).show();

    }

    public void signup(View view){
        Intent intent=new Intent(this,Signup.class);
        startActivity(intent);
    }

}
```

```
package com.example.login;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

public class Signup extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_signup);
    }

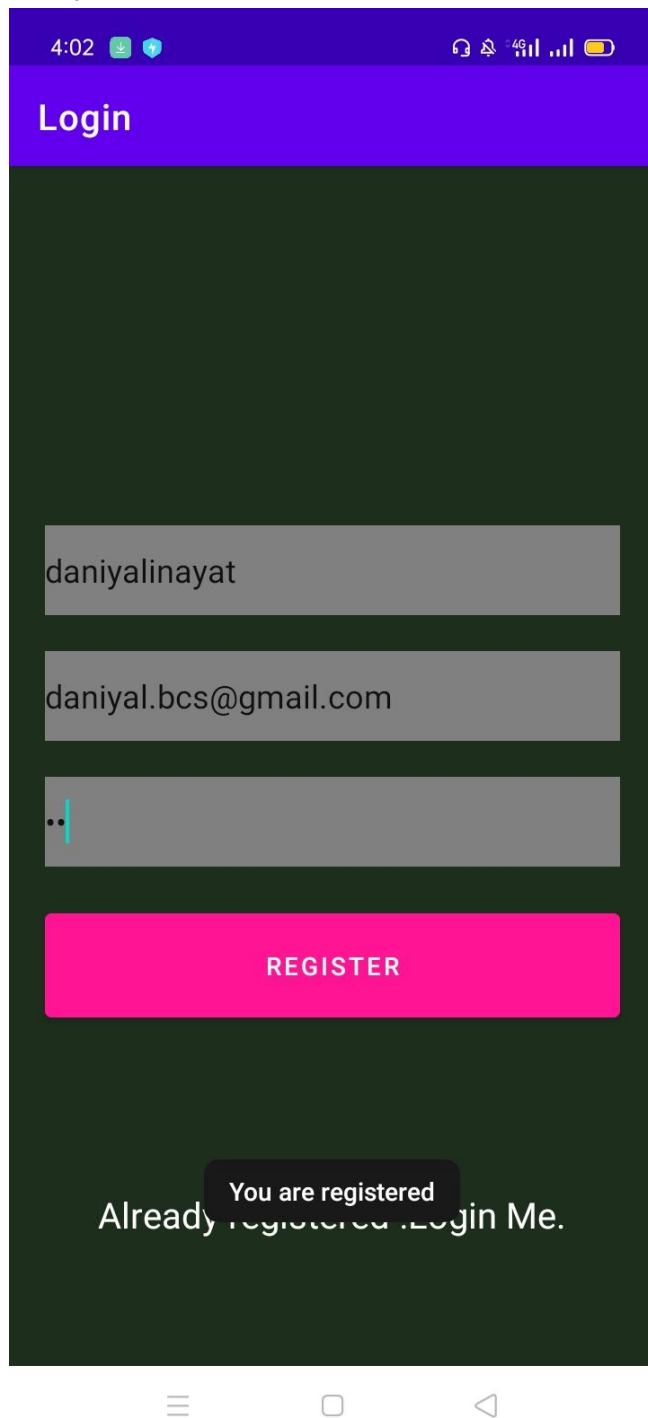
    public void signup(View view){
        EditText Email=(EditText)findViewById(R.id.Email);
        EditText Password=(EditText)findViewById(R.id.password);

        SharedPreferences prefs=getSharedPreferences("user",MODE_PRIVATE);
        SharedPreferences.Editor editor=prefs.edit();

        editor.putString(Email.getText().toString(),Password.getText().toString()
);
        editor.commit();
        Toast.makeText(this,"You are registered",Toast.LENGTH_LONG).show();
    }

    public void login(View view){
        Intent intent=new Intent(this,MainActivity.class);
        startActivity(intent);
    }
}
```

Output



4:02



Login

daniyal.bcs@gmail.com

..

LOGIN

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

Login Successfully

↑ z x c v b n m ↵

?123



English

.



Activity 2: Friendsr App

Layout

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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:scrollbarSize="25sp"
    tools:context=".Details">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical"
        tools:context=".Details"
        android:padding="10dp"
        >

        <RatingBar
            android:id="@+id/rating"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:numStars="5" />

        <ImageView
            android:id="@+id/imageView"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            tools:srcCompat="@tools:sample/avatars" />

        <TextView
            android:id="@+id/txt"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:text="TextView"
            android:textSize="24sp" />
    </LinearLayout>
</ScrollView>
```

```
</LinearLayout>
</ScrollView>
```

```
<?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:layout_marginTop="50dp"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_weight="0"
        android:text="Friends"
        android:textSize="36sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="0"
        android:text="Click on an eligible single user to learn more and see if y
ou are compatible for a date!"
        android:textSize="18sp" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="0"
        android:orientation="horizontal">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_marginStart="20dp"
            android:layout_marginLeft="20dp"
            android:layout_weight="1"
```

```
android:gravity="center"
android:orientation="vertical">

<ImageButton
    android:id="@+id/ImageButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    app:srcCompat="@drawable/chandlersmall"
    android:onClick="change"
    android:tag="1"

    />

<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Chandler" />

<ImageButton
    android:id="@+id/ImageButton3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    app:srcCompat="@drawable/monicasmall"
    android:onClick="change"
    android:tag="2"

    />

<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Monica" />

<ImageButton
    android:id="@+id/ImageButton4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    app:srcCompat="@drawable/rachelsmall"
    android:onClick="change"
    android:tag="3"

    />
```

```
<TextView
    android:id="@+id/textView5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Rachel" />

</LinearLayout>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginEnd="20dp"
    android:layout_marginRight="20dp"
    android:layout_weight="1"
    android:gravity="center"
    android:orientation="vertical">

    <ImageButton
        android:id="@+id/ImageButton2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="change"
        android:tag="4"
        app:srcCompat="@drawable/joeysmall"

        />

    <TextView
        android:id="@+id/textView6"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Joey" />

    <ImageButton
        android:id="@+id/ImageButton5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="change"
        android:tag="5"
        app:srcCompat="@drawable/phoebesmall"

        />

    <TextView
```

```

        android:id="@+id/textView7"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Phoebe" />

        <ImageButton
            android:id="@+id/ImageButton6"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:onClick="change"
            android:tag="6"
            app:srcCompat="@drawable/rosssmall"

        />

        <TextView
            android:id="@+id/textView8"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Ross" />
    </LinearLayout>
</LinearLayout>
</LinearLayout>

```

Logic Code

```

package com.example.friendsapp;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.content.SharedPreferences;
import android.media.Image;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.ImageView;
import android.widget.RatingBar;
import android.widget.TextView;

public class Details extends AppCompatActivity {
    String name;
    Intent intent;
}

```

```
float Rating;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_details);
    intent = getIntent();
    String tag=intent.getStringExtra("tag");
    ImageView img=(ImageView) findViewById(R.id.imageView);
    TextView txt=(TextView)findViewById(R.id.txt);
    RatingBar ratingBar=(RatingBar)findViewById(R.id.rating);
    String[] str=getResources().getStringArray(R.array.friend_details);
    SharedPreferences prefs=getSharedPreferences("user",MODE_PRIVATE);
    Rating=0;

    if(tag.equals("1"))
    {

        img.setImageResource(R.drawable.chandler);
        txt.setText(str[0]);
        name="chandler";

    }

    else if(tag.equals("2"))
    {
        img.setImageResource(R.drawable.monica);
        txt.setText(str[2]);
        name="monica";
    }

    else if(tag.equals("3"))
    {
        img.setImageResource(R.drawable.rachel);
        txt.setText(str[4]);
        name="rachel";
    }

    else if(tag.equals("4"))
    {
        img.setImageResource(R.drawable.joey);
        txt.setText(str[1]);
        name="joey";
    }

    else if(tag.equals("5"))
```

```

        {
            img.setImageResource(R.drawable.phoebe);
            txt.setText(str[3]);
            name="phoebe";
        }

        else if(tag.equals("6"))
        {
            img.setImageResource(R.drawable.ross);
            txt.setText(str[5]);
            name="ross";
        }
        String d=prefs.getString(name,"none");
        if(!d.equals("none")) {
            ratingBar.setRating(Float.parseFloat(d));
            Rating=Float.parseFloat(d);
        }

        ratingBar.setOnRatingBarChangeListener(new RatingBar.OnRatingBarChangeListener() {

            @Override
            public void onRatingChanged(RatingBar ratingBar, float rating, boolean fromUser) {

                SharedPreferences prefs=getSharedPreferences("user",MODE_PRIVATE)
;

                SharedPreferences.Editor editor=prefs.edit();
                editor.putString(name,""+rating);
                Rating=rating;
                editor.commit();
                intent.putExtra("rate",""+Rating);

            }
        });
        intent.putExtra("rate",""+Rating);
        Log.i("value",""+Rating);
        setResult(123, intent);
    }

    @Override
    public void onBackPressed() {
        super.onBackPressed();
        finish();
    }

```



```

    }
}
package com.example.friendsapp;

import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.media.Image;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageButton;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void change(View view){
        ImageButton btn=(ImageButton)view;
        Intent intent=new Intent(this,Details.class);

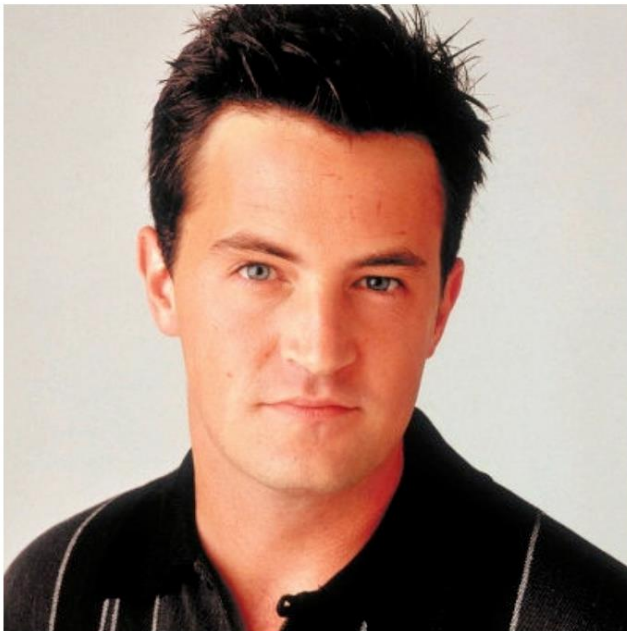
        intent.putExtra("tag",btn.getTag().toString());

        startActivityForResult(intent,123);
    }

    @Override
    protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        if(requestCode==123)
        {
            String returnString = data.getStringExtra("rate");
            Toast.makeText(this,"You rated "+returnString,Toast.LENGTH_LONG).show();
        }
    }
}

```

Output



Chandler Muriel Bing was born on April 8, 1968, to an erotic novelist mother and a transgender woman who later became the star of a Las Vegas drag show. He is of Scottish ancestry. He is an



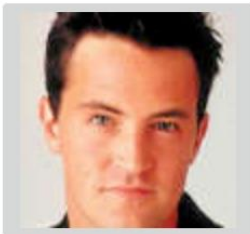
4:03



Friendsr

Friends

Click on an eligible single user to learn more and see if you are compatible for a date!



Chandler



Joey



Monica



Phoebe



Rachel



Ross

You rated 3.5



Activity 3: Mid Labs

Layout

```
<?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=".MainActivity">

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        app:srcCompat="@drawable/cover" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:padding="10dp"
        android:text="Welcome to Mad Libs! I will ask you to fill in words to complete the story until you are done filling in all the missing words. That's part of the fun. Click below to get started..."
        android:textColor="@color/black"
        android:textSize="18sp" />

    <Button
        android:id="@+id/btnst"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="right"
        android:onClick="start"
        android:text="GET STARTED!"
        android:textColor="@color/black"
        android:textSize="30sp"
        android:textStyle="bold"
        android:backgroundTint="#808080"
    />
</LinearLayout>
```

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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:fillViewport="true"
    tools:context=".story">
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    >
    <TextView
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_weight="0"
        android:text="Your Mad Lib Story"
        android:textSize="36sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/textView5"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="0"
        android:text="TextView"
        android:textSize="30sp" />

    <Button
        android:id="@+id/button2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="0"
        android:onClick="another"
        android:text="MAKE ANOTHER STORY"
        android:textSize="24sp"
        app:backgroundTint="#808080" />
</LinearLayout>
</ScrollView>
```

```
<?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=".words">

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Fill in words to complete the story"
        android:textSize="40sp"
    />

    <TextView
        android:id="@+id/leftwords"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:layout_gravity="center"
        android:text="TextView"
        android:layout_marginTop="30dp"
    />

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
>
    <EditText
        android:id="@+id/edittext"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="noun"
        android:layout_marginRight="20dp"
        android:layout_marginLeft="20dp"
    />

    <Button
```

```

        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="OK"
        android:onClick="Ok"
        android:textColor="@color/black"
        android:backgroundTint="#808080"
    />

</LinearLayout>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:textSize="20sp"
        android:id="@+id/word"
        android:text="please type a/an noun"
    />

</LinearLayout>

```

Logic Code

```

package com.example.midlabs;

import androidx.appcompat.app.AppCompatActivity;

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

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void start(View view){
        Intent intent=new Intent(this,words.class);
        startActivity(intent);
    }
}

```

```
}
```

```
package com.example.midlabs;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

import org.w3c.dom.Text;

public class story extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_story);
        Intent intent=getIntent();
        String story=intent.getStringExtra("story");
        TextView txt=(TextView)findViewById(R.id.textView5);
        txt.setText(story);

    }
}
```

```
package com.example.midlabs;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.text.TextUtils;
import android.util.Log;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
```



```

import java.util.ArrayList;
import java.util.List;
import java.util.Random;
import java.util.regex.Matcher;
import java.util.regex.Pattern;

public class words extends AppCompatActivity {

    String stories[];
    TextView leftwords,placingwords;
    EditText editText;
    ArrayList<String> matches;
    String story;
    int counter,index;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_words);
        leftwords=(TextView)findViewById(R.id.leftwords);
        placingwords=(TextView)findViewById(R.id.word);
        editText=(EditText) findViewById(R.id.edittext);

        stories=new String[]{"I wannabe a <job> when I grow up.Just like my dad.L
life is <adjective> like that!"
        ,"One of the most <adjective> characters in fiction is named\n" +
            "Tarzan of the <plural-noun> . Tarzan was raised by a/an\n" +
            "<noun> and lives in the <adjective> jungle in the\n" +
            "heart of darkest <place> . He spends most of his time\n" +
            "eating <plural-noun> and swinging from tree to <noun> .\n" +
            "Whenever he gets angry, he beats on his chest and says,\n" +
            " <funny-
noise> ! This is his war cry. Tarzan always dresses in\n" +
            "<adjective> shorts made from the skin of a/an <noun>\n" +
            "and his best friend is a/an <adjective> chimpanzee named\n" +
            "Cheetah. He is supposed to be able to speak to elephants and\n"
+
            "<plural-noun> . In the movies, Tarzan is played by <person's-
name> ."

            ,
            "Our American universities offer students many <adjective>\n" +
            "courses that will prepare them to become professional <p
lural-noun> .\n" +

```

"You can get a degree as a Bachelor of <plural-noun> or take a\n" +
 "regular liberal <plural-noun> course. Or, if you want to become\n" +
 "a/an <adjective> engineer, you can study <adjective> mathematics\n" +
 "and differential <plural-noun> . Then, after <number> years, if\n" +
 "you want to continue your studies you can write a/an <noun> and\n" +
 "become a Doctor of <plural-noun> . \n" +
 "\n" +
 "When you get out into the <adjective> world, if you have
 a diploma \n" +
 "from a university, you will be able to get a job easily
 as a/an <job-title> \n" +
 "or even a/an <job-title> . If you don't have a diploma, you may have to take\n" +
 "a job as a <noun> . \n" +
 "\n" +
 "Remember, it's important that you study hard in high school so you are able \n" +
 "to do well on your college entrance <plural-noun> . It is true that \n" +
 "learning is a/an <adjective> thing.",
 "<Male-Name> has announced that his <adjective>\n" +
 "clothing store in the heart of downtown <CITY> is having
 \n" +
 "a/an <adjective> sale of all merchandise, including\n" +
 "<unusual-
 adjective> suits and slightly irregular <plural-noun>\n" +
 "available. Men's cable-knit <plural-noun> , only \$15.99.\n" +
 "Hand-woven Italian <plural-noun> , 1/2-price. Double-
 \n" +
 "breasted cashmere <plural-noun> , \$50.00. Genuine imported\n" +
 "<Color!> <adjective> shoes, <Exciting-adjective> handkerchiefs,\n" +
 "and women's embroidered <plural-noun> , all at rock-bottom prices.\n" +
 "This is a chance to get some really <Interesting-Adjective> bargains."

```

        , "Here's how you dance the Monstrosity. Stand with your feet toge
ther.\n" +
        "Now, move your left foot <aDvErB> to the side. Now stamp your\n"
    +
        "right foot <NUMBER> times and put your hands on your partner's\n"
    " +
        "<Plural-
Noun> . Next, you both <verb> slowly to the right and bend\n" +
        "your <body-part> backward. For the next eight counts,\n" +
        "both of you <verb> <adverb> to the left. Next, you and\n" +
        "your partner stand back to back and wiggle your <pluRAL-
nOUN> and\n" +
        "slap your <plural-
noun> together. Don't forget to keep stamping\n" +
        "your right foot. Now, face your partner again, put your <plural-
noun>\n" +
        "together and shout, <FUNNY-noise> ! Now, <verb> backward\n" +
        "and repeat the whole thing <Number> times. If you feel that you
can't\n" +
        "learn this dance, you can always <verB> the next one out."
    };

    story=stories[new Random().nextInt(5)];
    Pattern pattern = Pattern.compile("\\<(.*?)\\>");
    Matcher matcher = pattern.matcher(story);

    matches = new ArrayList<String>();
    while(matcher.find())
        matches.add(matcher.group());

    counter=matches.size();
    index=0;
    leftwords.setText(counter + "words(s) left");
    String w=matches.get(index);
    w=w.replace("<", "");
    w=w.replace(">", "");
    placingwords.setText("please type a/an "+w);
    editText.setHint(w);
    Log.i("dic", matches.toString());
}

public void Ok(View view){

```

```

        if(TextUtils.isEmpty(editText.getText().toString()))
        {
            editText.setError("Empty field");
            return;
        }

        Toast.makeText(this,"Great keep going",Toast.LENGTH_LONG).show();
        leftwords.setText(--counter +"words(s) left");
        String w=matches.get(index);
        story=story.replaceFirst(w,editText.getText().toString());
        if(counter==0)
        {
            Intent intent=new Intent(this,story.class);
            intent.putExtra("story",story);
            startActivity(intent);

        }

        Log.i("story",story);
        w=matches.get(++index);
        w=w.replace("<","");
        w=w.replace(">","");
        placingwords.setText("please type a/an "+w);
        editText.setHint(w);
        editText.setText("");

    }
    public void another(View view){

        finish();
    }
}

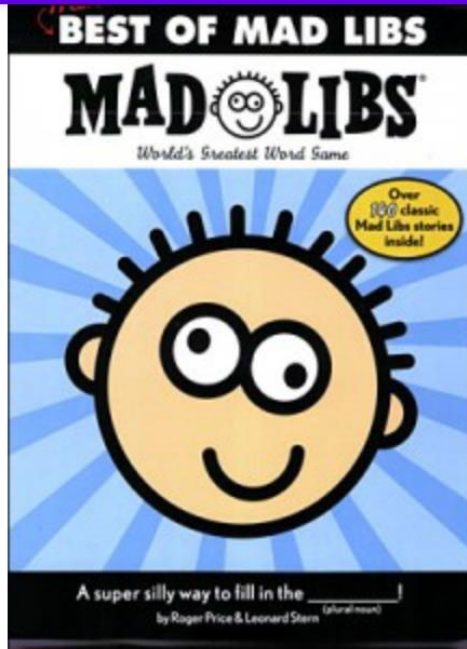
```

Output

4:03



Mid Labs



Welcome to Mad Libs! I will ask you to fill in words to complete the story until you are done filling in all the missing words. That's part of the fun. Click below to get started...

GET STARTED!



4:03



Mid Labs

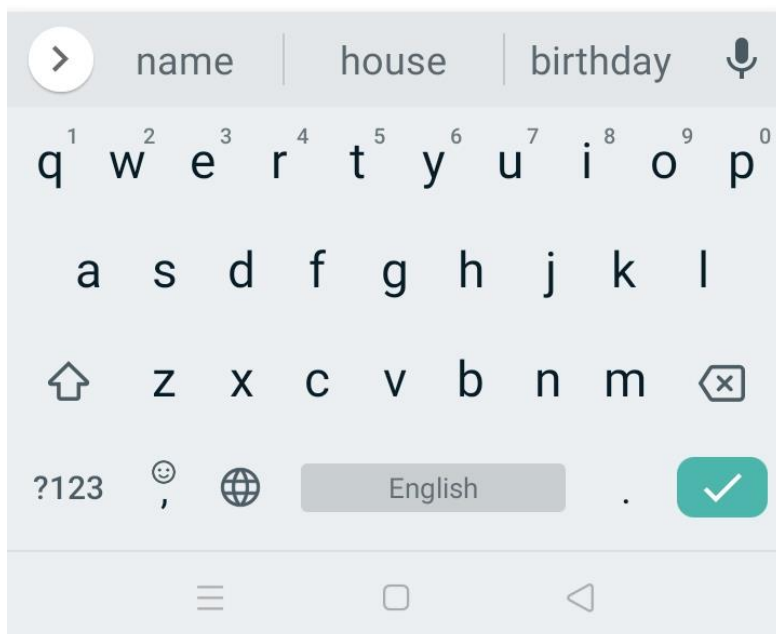
Fill in words to complete the story

12words(s) left

brother's

OK

please type a/an Plural-Noun



4:04



Mid Labs

Your Mad Lib Story

Here's how you dance the Monstrosity. Stand with your feet together.

Now, move your left foot Hi to the side. Now stamp your

right foot 09 times and put your hands on your partner's

brother's . Next, you both hi slowly to the right and bend

your nose backward. For the next eight counts, both of you walk now to the left. Next, you and your partner stand back to

.....

