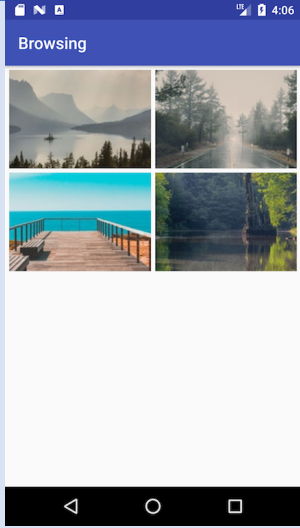
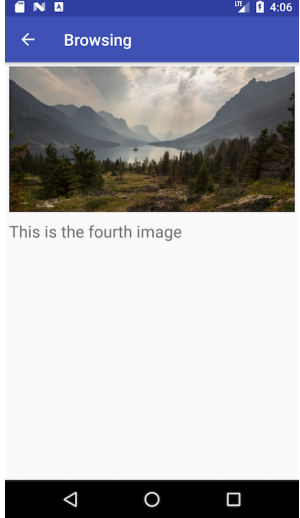


Software Development for Mobile Devices

Submission for Assignment A4.2P

App Screenshot

Activity	Screen
MainActivity	 A screenshot of a mobile application interface. At the top, there is a blue header bar with the word "Browsing" in white. Below the header, there is a grid of four landscape images: a lake with mountains, a forest path, a wooden bridge over a lake, and a forest scene. The bottom of the screen shows a black navigation bar with three white icons: a back arrow, a circle, and a square.
ImageDisplayActivity	 A screenshot of a mobile application interface. At the top, there is a blue header bar with a back arrow icon and the word "Browsing" in white. Below the header, there is a large landscape image of a lake with mountains. Below the image, there is a text label that says "This is the fourth image". The bottom of the screen shows a black navigation bar with three white icons: a back arrow, a circle, and a square.

Source code

Main Layout (activity_main.xml)

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
    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="com.example.swinburne.browsing.MainActivity">

    <TableLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:paddingTop="5dp"
        android:layout_marginBottom="5dp"
        android:layout_marginStart="5dp"
        android:layout_marginEnd="5dp">
        <TableRow android:layout_marginBottom="5dp">
            <ImageButton android:id="@+id/imgBtnFirst"
                android:layout_height="120dp"
                android:layout_width="wrap_content"
                android:src="@drawable/image1"
                android:layout_marginEnd="5dp"
                android:onClick="clickFirstButton"
                android:layout_weight="1"/>

            <ImageButton android:id="@+id/imgBtnSecond"
                android:layout_height="120dp"
                android:layout_width="wrap_content"
                android:src="@drawable/image2"
                android:onClick="clickSecondButton"
                android:layout_weight="1"/>
        </TableRow>

        <TableRow>
            <ImageButton android:id="@+id/imgBtnThird"
                android:layout_height="120dp"
                android:layout_width="wrap_content"
                android:src="@drawable/image3"
                android:layout_marginEnd="5dp"
                android:onClick="clickThirdButton"
                android:layout_weight="1"/>

            <ImageButton android:id="@+id/imgBtnFourth"
                android:layout_height="120dp"
                android:layout_width="wrap_content"
                android:onClick="clickFourthButton"
                android:src="@drawable/image4"
                android:layout_weight="1"/>
        </TableRow>
    </TableLayout>
</android.support.constraint.ConstraintLayout>
```

Image Display Layout (activity_image_display.xml)

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
    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="com.example.swinburne.browsing.ImageDisplayActivity">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical"
        android:layout_marginTop="5dp"
        android:layout_marginBottom="5dp"
        android:layout_marginStart="5dp"
        android:layout_marginEnd="5dp">

        <ImageView
            android:id="@+id/imgView"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:scaleType="fitXY"
            android:adjustViewBounds="true"
            />

        <TextView
            android:id="@+id/txtDescription"
            android:layout_marginTop="10dp"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textSize="20sp"/>

    </LinearLayout>

</android.support.constraint.ConstraintLayout>
```

MainActivity

```
public class MainActivity extends AppCompatActivity {

    ImageButton imgBtn1;
    ImageButton imgBtn2;
    ImageButton imgBtn3;
    ImageButton imgBtn4;

    private static final String INTENT_IMAGE_KEY = "image";
    private static final String INTENT_DESCRIPTION_KEY = "description";

    @Override
```

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    initializeUI();
}

private void initializeUI() {
    imgBtn1 = findViewById(R.id.imgBtnFirst);
    imgBtn2 = findViewById(R.id.imgBtnSecond);
    imgBtn3 = findViewById(R.id.imgBtnThird);
    imgBtn4 = findViewById(R.id.imgBtnFourth);

}

public void clickFirstButton(View v) {
    Intent intent = new Intent(this, ImageDisplayActivity.class);
    intent.putExtra(INTENT_DESCRIPTION_KEY,
getString(R.string.image_description_1));
    intent.putExtra(INTENT_IMAGE_KEY, R.drawable.desert);
    startActivity(intent);
}

public void clickSecondButton(View v) {
    Intent intent = new Intent(this, ImageDisplayActivity.class);
    intent.putExtra(INTENT_DESCRIPTION_KEY,
getString(R.string.image_description_2));
    intent.putExtra(INTENT_IMAGE_KEY, R.drawable.thai);
    startActivity(intent);
}

public void clickThirdButton(View v) {
    Intent intent = new Intent(this, ImageDisplayActivity.class);
    intent.putExtra(INTENT_DESCRIPTION_KEY,
getString(R.string.image_description_3));
    intent.putExtra(INTENT_IMAGE_KEY, R.drawable.chinese);
    startActivity(intent);
}

public void clickFourthButton(View v) {
    Intent intent = new Intent(this, ImageDisplayActivity.class);
```

```
        intent.putExtra(INTENT_DESCRIPTION_KEY,  
getString(R.string.image_description_4));  
        intent.putExtra(INTENT_IMAGE_KEY, R.drawable.italian);  
        startActivity(intent);  
    }  
}
```

ImageDisplayActivity

```
public class ImageDisplayActivity extends AppCompatActivity {  
  
    ImageView imgView;  
  
    private static final String INTENT_IMAGE_KEY = "image";  
    private static final String INTENT_DESCRIPTION_KEY = "description";  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_image_display);  
        initialiseUI();  
    }  
  
    private void initialiseUI() {  
        imgView = findViewById(R.id.imgView);  
        imgView.setImageResource(getIntent().getIntExtra(INTENT_IMAGE_KEY, 0));  
        String description = getIntent().getStringExtra(INTENT_DESCRIPTION_KEY);  
        TextView txtView = findViewById(R.id.txtDescription);  
        txtView.setText(description);  
    }  
}
```

string.xml

```
<resources>  
    <string name="app_name">Browsing</string>  
    <string name="image_description_1">This is the first image</string>  
    <string name="image_description_2">This is the second image</string>  
    <string name="image_description_3">This is the third image</string>  
    <string name="image_description_4">This is the fourth image</string>  
</resources>
```