



**Green University of Bangladesh**  
**Department of Computer Science and Engineering (CSE)**  
**Faculty of Sciences and Engineering**  
**Semester: (Spring, Year:2022), BSc. in CSE (Day)**

**LAB REPORT - 01**

**Course Title:** Mobile Application Development Lab

**Course Code:** CSE-426    **Section:** PC-201 DB

**Student Details**

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**Lab Date:** 28-11-2022

**Submission Date:** 15-12-2022

**Course Teacher's Name:** Md. Shihab Hossain

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**Lab Report Status**

**Marks:** .....

**Signature:** .....

**Comments:** .....

**Date:** .....

## 1. TITLE OF THE LAB EXPERIMENT

Design three activity pages using Android Intent and Toast to create an Application.

## 2. OBJECTIVES/AIMS

- To implement Intent for switching from one activity to another in an application.
- To be able to implement simple mathematical logic on user input.
- To create multiple activity pages.
- To gather knowledge of java syntax for referencing with XML.
- To design and modify activity.
- To create responsive components.

## 3. PROCEDURE / ANALYSIS / DESIGN

This experiment is mainly based on software. From this experiment we will try to create an application where has three activity pages those have some responsive function. Like, if we click button then it will go another activity page or show any message. Now the working process,

Activity page (1) has three components. They are a ImageView, a EditText and a Button. If we click that button then it will go Activity page (2) where has a ImageView, a EditText and two Buttons. If we click 1<sup>st</sup> button then it will go Activity page (1) and If we click 2<sup>nd</sup> button then it will go Activity page (3) where has a ImageView, a EditText and two Buttons. If we click 1<sup>st</sup> button then it will show the message "Transaction complete" and If we click 2<sup>nd</sup> button then it will go Activity page (1).

## 4. IMPLEMENTATION

**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"
    tools:context=".MainActivity"
    android:orientation="vertical"
    >
    <ImageView
        android:layout_width="match_parent"
        android:layout_height="180dp"
        android:background="@drawable/bKash"
        android:layout_margin="40dp"
        />
    <EditText
        android:id="@+id/R1"
        android:layout_width="match_parent"
        android:layout_height="80dp"
        android:layout_margin="50dp"
        android:textColor="@android:color/holo_red_dark"
        android:hint="Enter PIN"
        android:textSize="30dp"
        android:padding="5dp"
```

```

        android:layout_marginBottom="50dp"
    />
    <Button
        android:id="@+id/bt1"
        android:layout_width="match_parent"
        android:layout_height="80dp"
        android:text="Enter"
        android:layout_marginHorizontal="100dp"
        android:layout_marginTop="30dp"
    />
</LinearLayout>

```

### activity\_second\_page.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"
    tools:context=".SecondPage"
    android:orientation="vertical"
    >
    <ImageView
        android:layout_width="match_parent"
        android:layout_height="200dp"
        android:background="@drawable/cash"
        android:layout_marginTop="30dp"
        android:layout_marginLeft="60dp"
        android:layout_marginRight="60dp"
        android:layout_marginBottom="15dp"
    />
    <EditText
        android:id="@+id/R1"
        android:layout_width="match_parent"
        android:layout_height="120dp"
        android:layout_marginBottom="40dp"
        android:layout_marginLeft="40dp"
        android:layout_marginRight="40dp"
        android:textColor="@android:color/holo_red_dark"
        android:hint="Enter Amount"
        android:textSize="30dp"
        android:padding="5dp"
    />
    <Button
        android:id="@+id/bt2"
        android:layout_width="match_parent"
        android:layout_height="80dp"
        android:text="Next"
        android:textColor="@android:color/white"
        android:layout_marginHorizontal="100dp"
        android:layout_marginBottom="20dp"
    />
    <Button
        android:id="@+id/bt3"
        android:layout_width="match_parent"
        android:layout_height="80dp"

```

```

        android:text="Back"
        android:textColor="@android:color/white"
        android:layout_marginHorizontal="100dp"
        android:layout_marginBottom="20dp"
    />
</LinearLayout>

```

#### **activity\_third\_page.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"
    tools:context=".ThirdPage"
    android:orientation="vertical"
    android:gravity="center">
    <EditText
        android:id="@+id/R1"
        android:layout_width="match_parent"
        android:layout_height="80dp"
        android:layout_margin="40dp"
        android:textColor="@android:color/holo_red_dark"
        android:hint="Enter PIN"
        android:textSize="30dp"
        android:padding="5dp"
    />
    <Button
        android:id="@+id/bt4"
        android:layout_width="match_parent"
        android:layout_height="60dp"
        android:text="Ok"
        android:layout_marginHorizontal="100dp"
        android:layout_marginBottom="50dp"
        android:layout_marginTop="80dp"
    />
    <Button
        android:id="@+id/bt5"
        android:layout_width="match_parent"
        android:layout_height="60dp"
        android:text="Home"
        android:layout_marginHorizontal="100dp"
    />
</LinearLayout>

```

#### **MainActivity.java:**

```

package com.example.firstlab;
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 {
    Button bt1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {

```

```

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        bt1= (Button) findViewById(R.id.bt1);
        bt1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent= new Intent(getApplicationContext(),SecondPage.class);
                startActivity(intent);
            }
        });
    }
}

```

### **SecondPage.java:**

```

package com.example.firstlab;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class SecondPage extends AppCompatActivity {
    Button bt2;
    Button bt3;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second_page);
        bt2= (Button) findViewById(R.id.bt2);
        bt3= (Button) findViewById(R.id.bt3);

        bt2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent= new Intent(getApplicationContext(),ThirdPage.class);
                startActivity(intent);
            }
        });
        bt3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent= new Intent(getApplicationContext(),MainActivity.class);
                startActivity(intent);
            }
        });
    }
}

```

### **ThirdPage.java:**

```

package com.example.firstlab;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
public class ThirdPage extends AppCompatActivity {

```

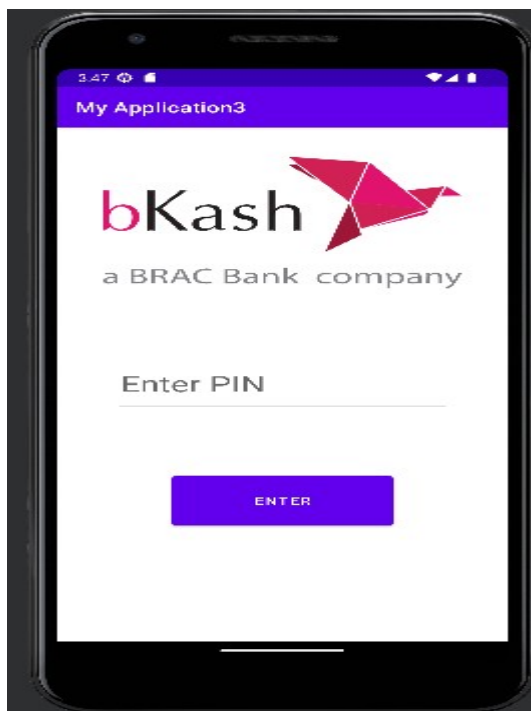
```

Button bt4;
Button bt5;
Toast t;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_third_page);
    bt4= (Button) findViewById(R.id.bt4);
    bt5= (Button) findViewById(R.id.bt5);
    bt4.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Toast.makeText(ThirdPage.this,"Transaction complete",Toast.LENGTH_SHORT).show();
        }
    });
    bt5.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent intent= new Intent(getApplicationContext(),MainActivity.class);
            startActivity(intent);
        }
    });
}
}

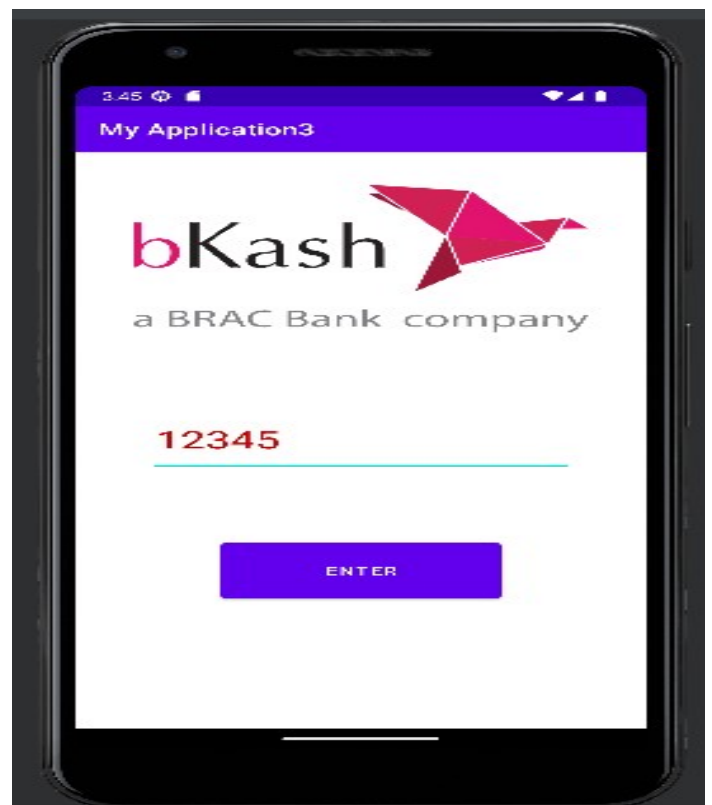
```

## 5. TEST RESULT / OUTPUT

When we open this application the 1<sup>st</sup> interface shows Activity page (1),

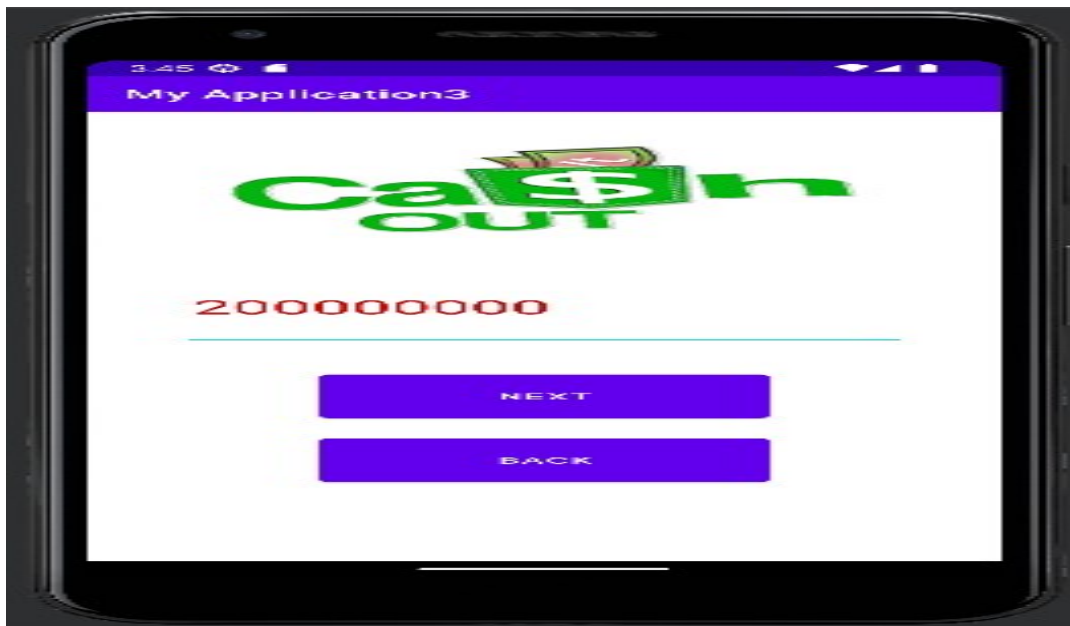


Figure\_1: 1<sup>st</sup> View



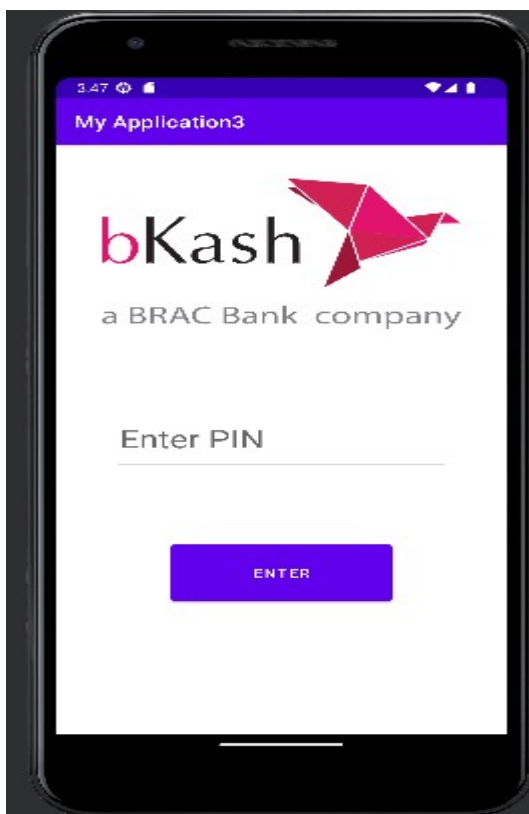
Figure\_2: Write in EditText

When we click ENTER button (we can write anything in EditText) then it will go Activity page (2),

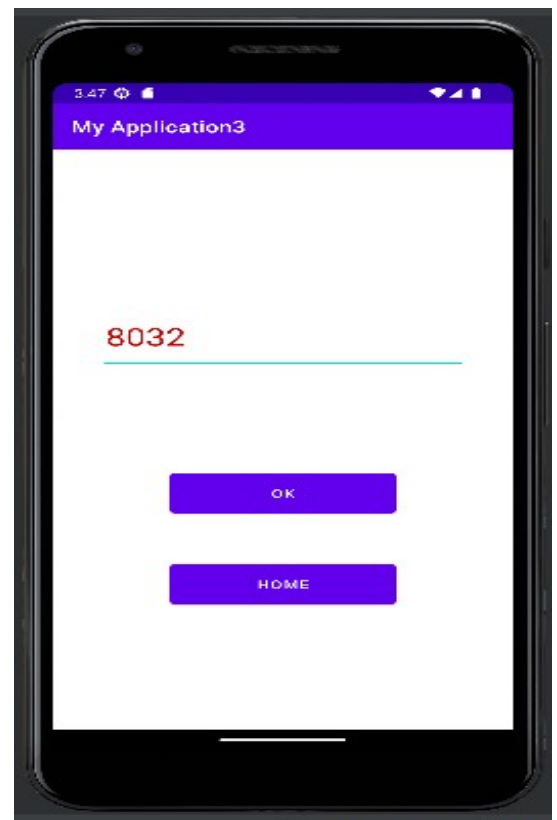


Figure\_3: Write in EditText

When we click NEXT button (we can write anything in EditText) then it will go Activity page (3) and When we click BACK button (we can write anything in EditText) then it will go Activity page (1).

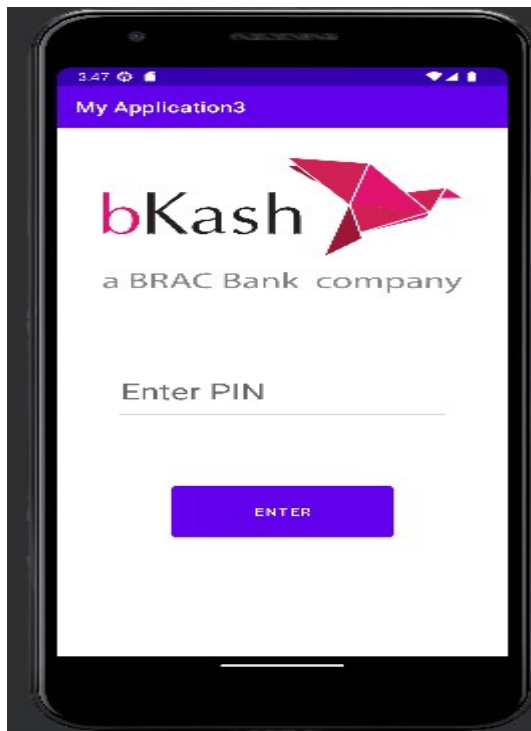


Figure\_4: Go Activity page (1)

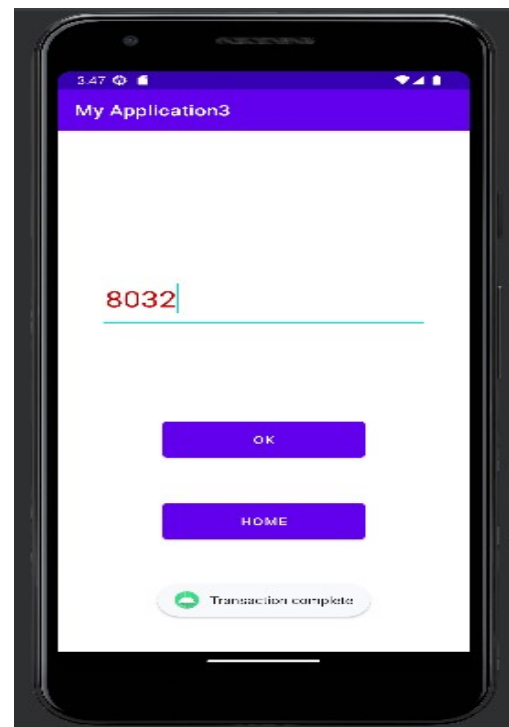


Figure\_5: Activity page (3)

When we click HOME button (we can write anything in EditText) then it will go Activity page (1) and When we click OK button (we can write anything in EditText) then it will go show Transaction complete message.



Figure\_6: Go Activity page (1)



Figure\_7: Show message

## 6. SUMMARY/ CONCLUSION

In this experiment we will try to create an application where has three activity pages those have some responsive function. That helps to switch one activity page to another activity page. The main hard part was how to use toast and we face some problem of that point. We use some functions to design and modify those activity page that's why activity page are oriented. In this experiment, we knew about android intent and toast. Those are used to modify and create an environment of responsiveness. That's why it experiment is very interesting and helpful for future.