Bahria University,

Karachi Campus

A logo with text on it

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**LAB EXPERIMENT NO.**

**7**

**LIST OF TASKS**

|  |  |
| --- | --- |
| TASK NO | OBJECTIVE |
| **1** | Implicit Intent for Opening a website  Objective: To use an implicit intent to open a website in a browser.  Description: Create a new activity with a Button labeled "Open Website".  Implement an implicit intent that opens a specific website (e.g., "https://www.example.com") when the button is clicked.  Ensure the device has a browser installed to handle the intent. |
| 2 | Sharing App  Objective: To share content from one activity to another using an explicit intent.  Description: Create an activity with a Text View displaying a piece of content (e.g., a quote or a fact). Implement a Button labeled "Share" that, when clicked, shares the content to another app (e.g., messaging or social media). Use an explicit intent to send the content to the sharing app. |

Submitted On:

22 March 2024

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(Date: DD/MM/YY)

**Task 1**

Implicit Intent for Opening a website

Objective: To use an implicit intent to open a website in a browser.

Description: Create a new activity with a Button labeled "Open Website".

Implement an implicit intent that opens a specific website (e.g., "https://www.example.com") when the button is clicked. Ensure the device has a browser installed to handle the intent.

**SOLUTION:**

**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:id="@+id/main"  
 android:orientation="vertical"  
 android:gravity="center"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
  
 <EditText  
 android:id="@+id/editText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="66dp"  
 android:ems="10"  
 android:inputType="text"  
 android:hint="Enter DESIRED URL" />  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Open "  
 tools:layout\_editor\_absoluteX="148dp"  
 tools:layout\_editor\_absoluteY="391dp" />  
  
</LinearLayout>

**Activity\_Main.java**

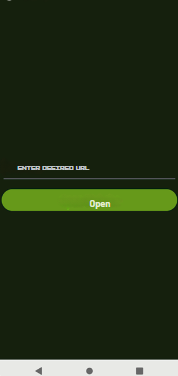
package com.example.lab7;  
  
import android.content.Intent;  
import android.net.Uri;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
import androidx.activity.EdgeToEdge;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.core.graphics.Insets;  
import androidx.core.view.ViewCompat;  
import androidx.core.view.WindowInsetsCompat;  
  
public class MainActivity extends AppCompatActivity {

@Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 EdgeToEdge.enable(this);  
 setContentView(R.layout.activity\_main);  
 ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {  
 Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());

v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);  
 return insets;  
 });

Button btnOpenUrl = findViewById(R.id.button);  
 EditText urll = findViewById(R.id.editText);  
 btnOpenUrl.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 // Create an Intent to navigate to the LoginPage activity  
 String url = "https://www."+urll.getText().toString();  
 Intent intent = new Intent(Intent.ACTION\_VIEW);  
 intent.setData(Uri.parse(url));  
  
 startActivity(intent);  
 }  
 });  
 }  
}

**Output:**

 A green and white box with white text

Description automatically generated A screenshot of a website

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**Task 2**

Sharing App

Objective: To share content from one activity to another using an explicit intent.

Description: Create an activity with a Text View displaying a piece of content (e.g., a quote or a fact). Implement a Button labeled "Share" that, when clicked, shares the content to another app (e.g., messaging, or social media). Use an explicit intent to send the content to the sharing app.

**SOLUTION:**

**Activity\_Main.XML**

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@color/black"  
 android:padding="16dp">  
  
 <TextView  
 android:id="@+id/content\_text\_view"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Quote OR Fact"  
 android:fontFamily="serif"  
 android:textAlignment="textEnd"  
 android:textColor="@color/white"  
 android:textSize="20sp"  
 android:layout\_centerInParent="true"/>  
  
 <Button  
 android:id="@+id/share\_button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Share"  
 android:layout\_below="@id/content\_text\_view"  
 android:layout\_centerHorizontal="true"  
 android:backgroundTint="#dd0000"  
 android:layout\_marginTop="24dp"/>  
  
</RelativeLayout>

**Activity\_Main.java**

package com.example.lab7t2;  
import android.content.Intent;  
import android.net.Uri;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.TextView;  
import android.widget.Toast;  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
 private TextView contentTextView;  
 private Button shareButton;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 contentTextView = findViewById(R.id.*content\_text\_view*);  
 shareButton = findViewById(R.id.*share\_button*);  
 // Set the content for the TextView  
 contentTextView.setText("Dream Big, Work Hard");  
 // Set the click listener for the share button  
 shareButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 // Get the content from the TextView  
 String contentToShare = contentTextView.getText().toString();  
 // Create an intent for sending SMS  
 Intent sendIntent = new Intent(Intent.*ACTION\_SENDTO*);  
 sendIntent.setData(Uri.*parse*("smsto:")); // This ensures only SMS apps respond  
 sendIntent.putExtra("sms\_body", contentToShare);  
 startActivity(sendIntent);  
 }  
 });  
 }  
}

**OUTPUT:**

 A white background with black and white clouds

Description automatically generated with medium confidence