CS434-Lab1-Report

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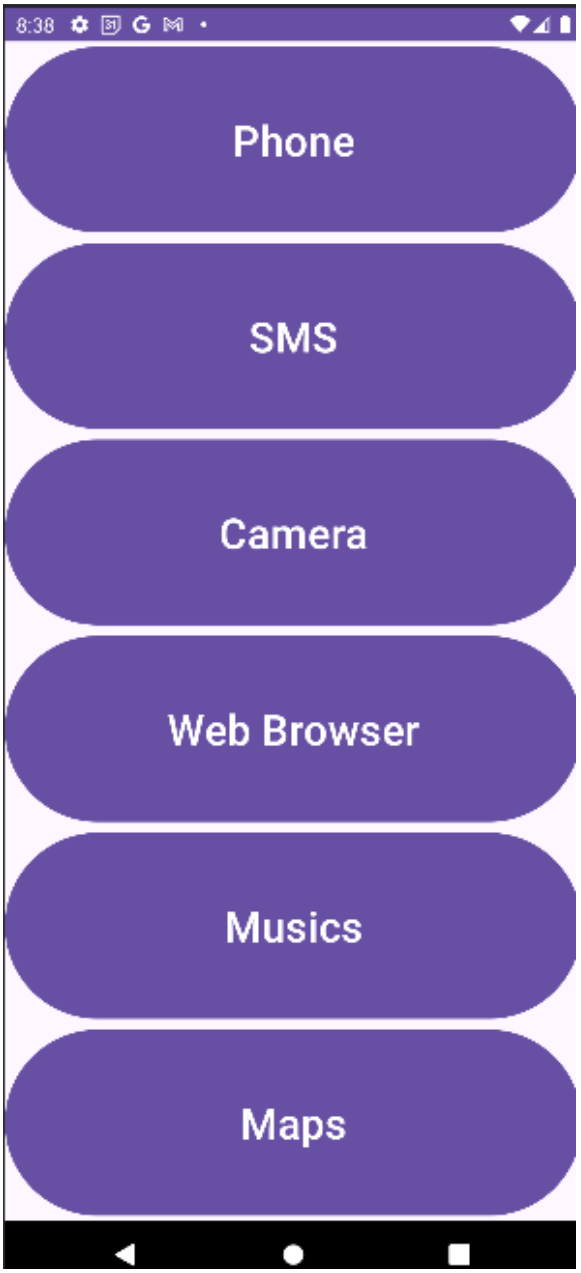
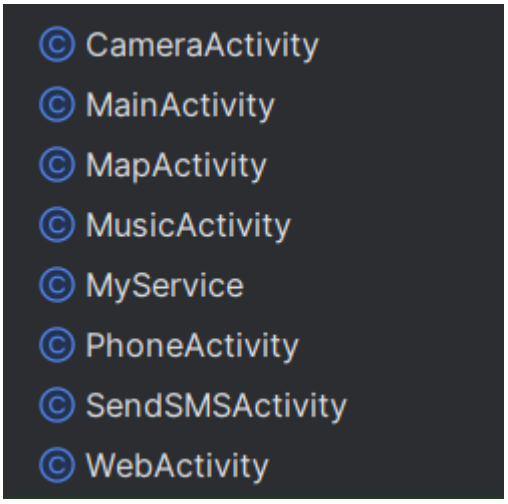
0. Overview

General

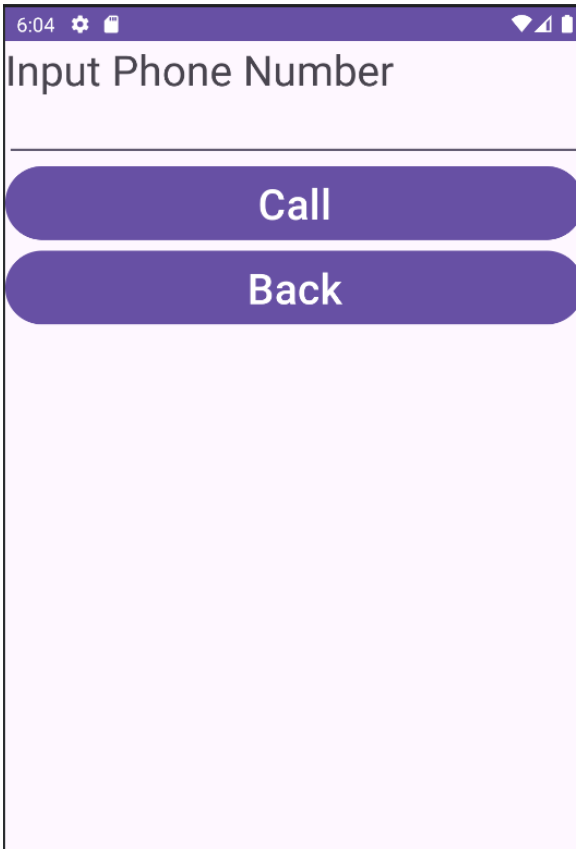


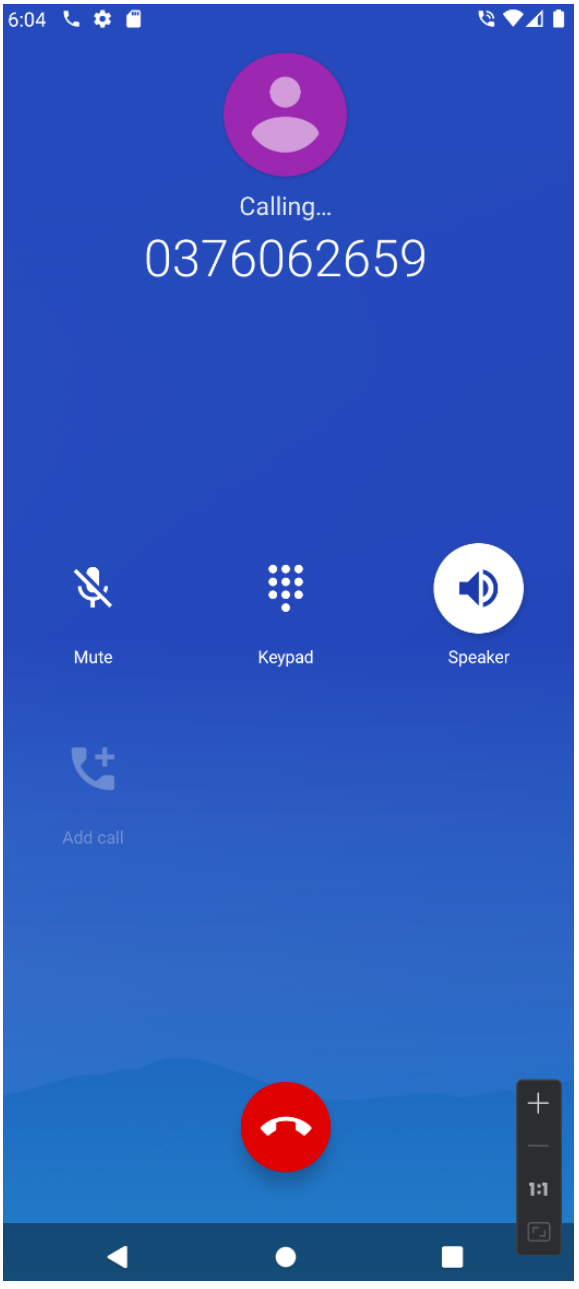
Manifes XML

```
<uses-feature
    android:name="android.hardware.telephony"
    android:required="false" />
<uses-feature
    android:name="android.hardware.camera"
    android:required="false" />

<uses-permission android:name="android.permission.CALL_PHONE" />
<uses-permission android:name="android.permission.SEND_SMS" />
<uses-permission android:name="android.permission.CAMERA" />
```



1. Phone Intent



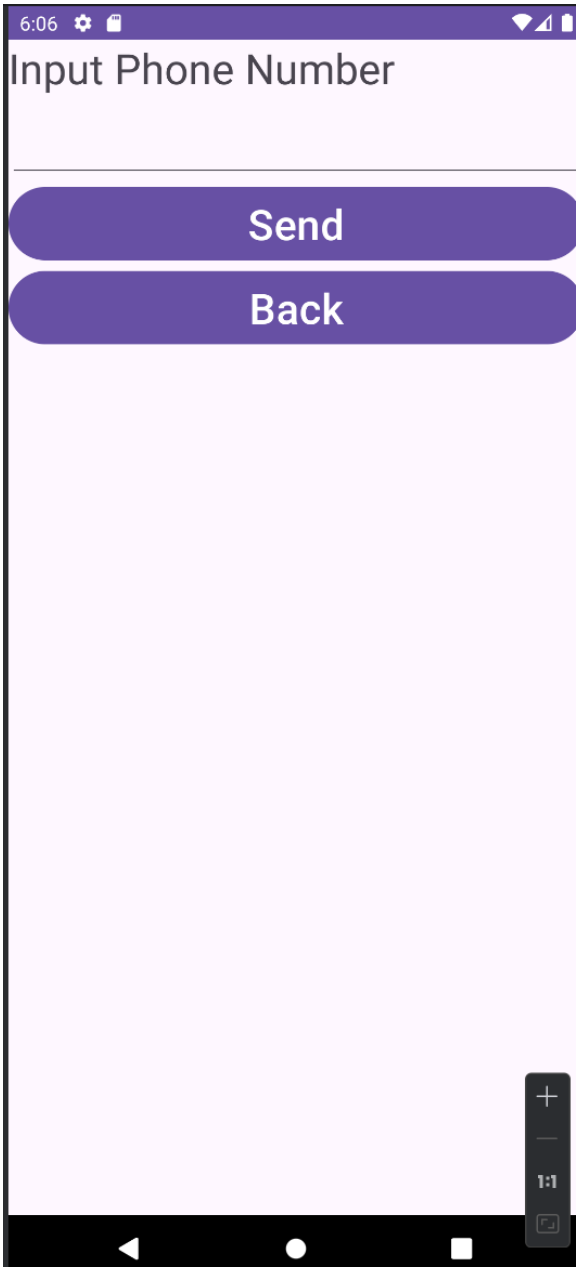



```
package com.example.intentphonesms;

import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
```

```
import android.content.Intent;
import android.content.pm.PackageManager;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.Manifest;

public class PhoneActivity extends AppCompatActivity {
    EditText editPhone;
    Button btnCall, btnPhoneBack;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_phone);
        editPhone = findViewById(R.id.editPhone);
        btnCall = findViewById(R.id.btnCall);
        btnPhoneBack = findViewById(R.id.btnPhoneBack);

        btnCall.setOnClickListener(new View.OnClickListener()
            @Override
            public void onClick(View v) {
                Intent myPhoneIntent = new Intent(
                    Intent.ACTION_CALL,
                    Uri.parse("tel:" + editPhone.getText().to
                  );
                if (ActivityCompat.checkSelfPermission
                    (PhoneActivity.this, Manifest.permission.
                        != PackageManager.PERMISSION_GRANTED)
                      ActivityCompat.requestPermissions(
                        PhoneActivity.this,
                        new String[]{Manifest.permission.CALL
                        1
                      );
                      return;
                }
```

```
                startActivity(myPhoneIntent);
            }
        });
        btnPhoneBack.setOnClickListener(new View.OnClickListe
            @Override
            public void onClick(View v) {
                finish();
            }
        });
    }
}
```

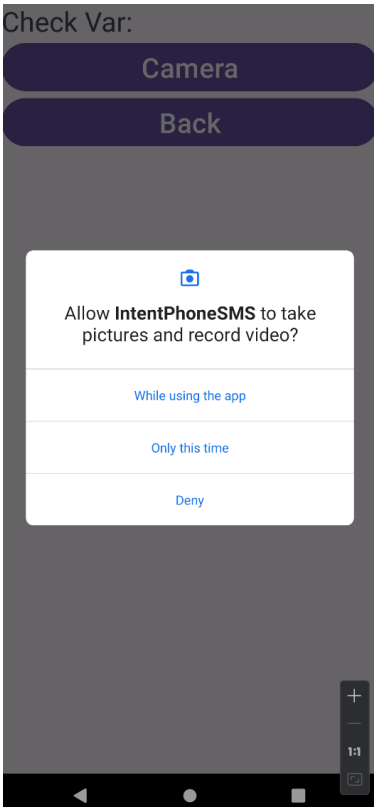
2. SMS Intent

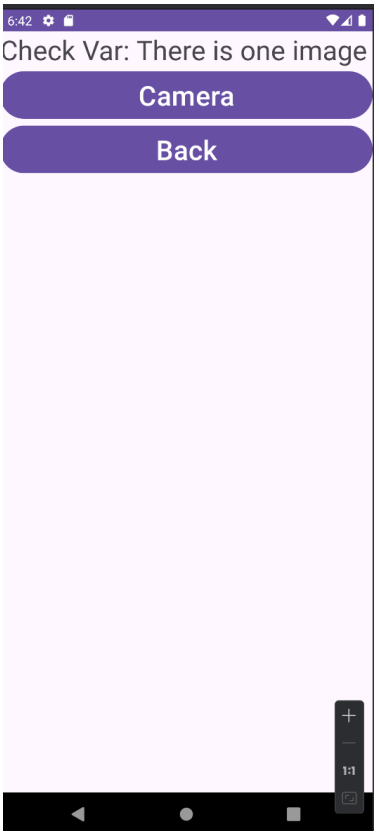



```
package com.example.intentphonesms;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
```

```
import android.widget.EditText;

public class SendSMSActivity extends AppCompatActivity {
    EditText editSMS;
    Button btnSend, btnSMSBack;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_send_smsactivity);
        editSMS = findViewById(R.id.editSMS);
        btnSend = findViewById(R.id.btnSend);
        btnSMSBack = findViewById(R.id.btnSMSBack);

        btnSend.setOnClickListener(new View.OnClickListener()
            @Override
            public void onClick(View v) {
                Intent mySMSIntent = new Intent(
                    Intent.ACTION_SENDTO,
                    Uri.parse("smsto:" + editSMS.getText().to
                  );
                startActivity(mySMSIntent);
            }
        });

        btnSMSBack.setOnClickListener(new View.OnClickListene
            @Override
            public void onClick(View v) {
                finish();
            }
        });
    }
}
```

3. Camera



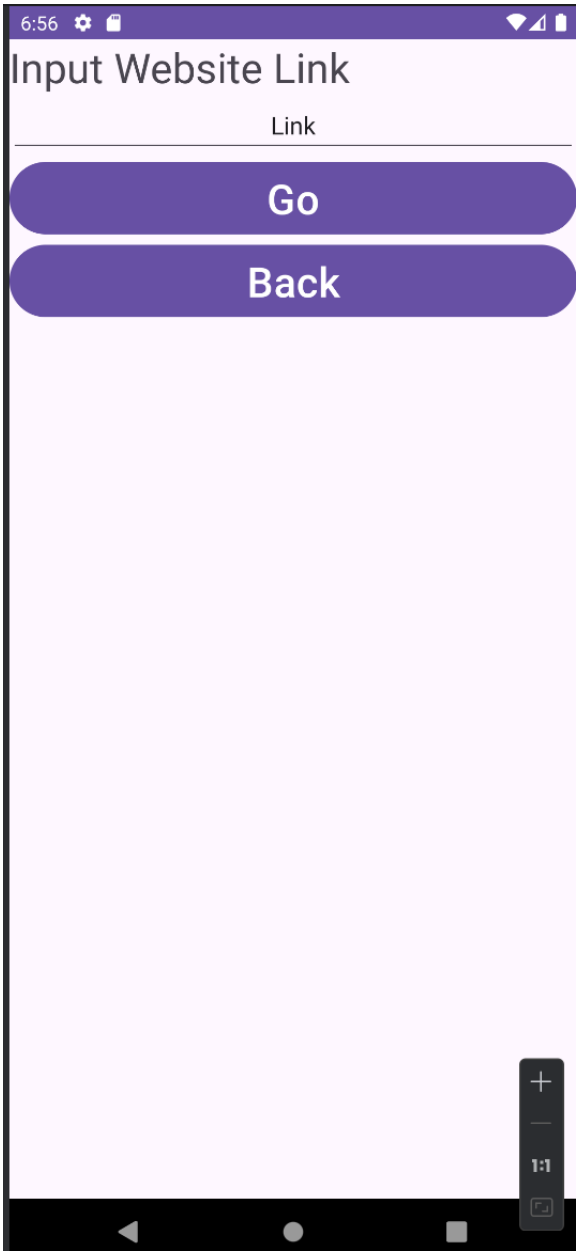


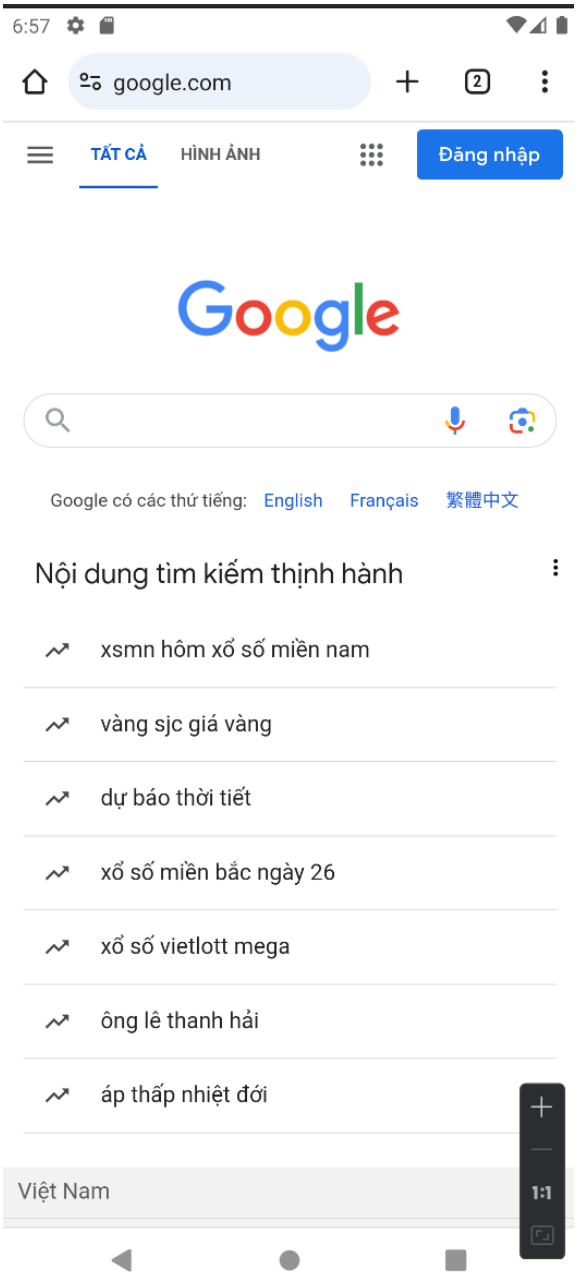

```
package com.example.intentphonesms;

import static android.provider.MediaStore.ACTION_IMAGE_CAPTUR

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

import android.Manifest;
import android.app.Activity;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.graphics.Bitmap;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
```

```
public class CameraActivity extends AppCompatActivity {
    Button btnCameraBack, btnCamera;
    TextView textMyImage;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_camera);
        btnCamera = findViewById(R.id.btnCamera);
        btnCameraBack = findViewById(R.id.btnCameraBack);
        textMyImage = findViewById(R.id.textMyImage);

        btnCamera.setOnClickListener(new View.OnClickListener
            @Override
            public void onClick(View v) {
                Intent myCameraIntent = new Intent(ACTION_IMA
                if (ActivityCompat.checkSelfPermission
                  (CameraActivity.this, Manifest.permission.CA
                    != PackageManager.PERMISSION_GRANTED) {
                      ActivityCompat.requestPermissions(
                        CameraActivity.this,
                        new String[]{Manifest.permission.CAME
                        1
                      );
                      return;
                }
                startActivityForResult(myCameraIntent, 99);
            }
        });

        btnCameraBack.setOnClickListener(new View.OnClickList
            @Override
            public void onClick(View v) {
                finish();
            }
        });
    }
```

```
    @Override
    protected void onActivityResult(
      int requestCode,
      int resultCode,
      @Nullable Intent data
    ) {
        super.onActivityResult(requestCode, resultCode, data)
        if (requestCode == 99 && resultCode == Activity.RESUL
            Bitmap photo = (Bitmap) data.getExtras().get("dat
            textMyImage.setText("Check Var: There is one imag
        }
    }
}
```

4. Web Browser Intent

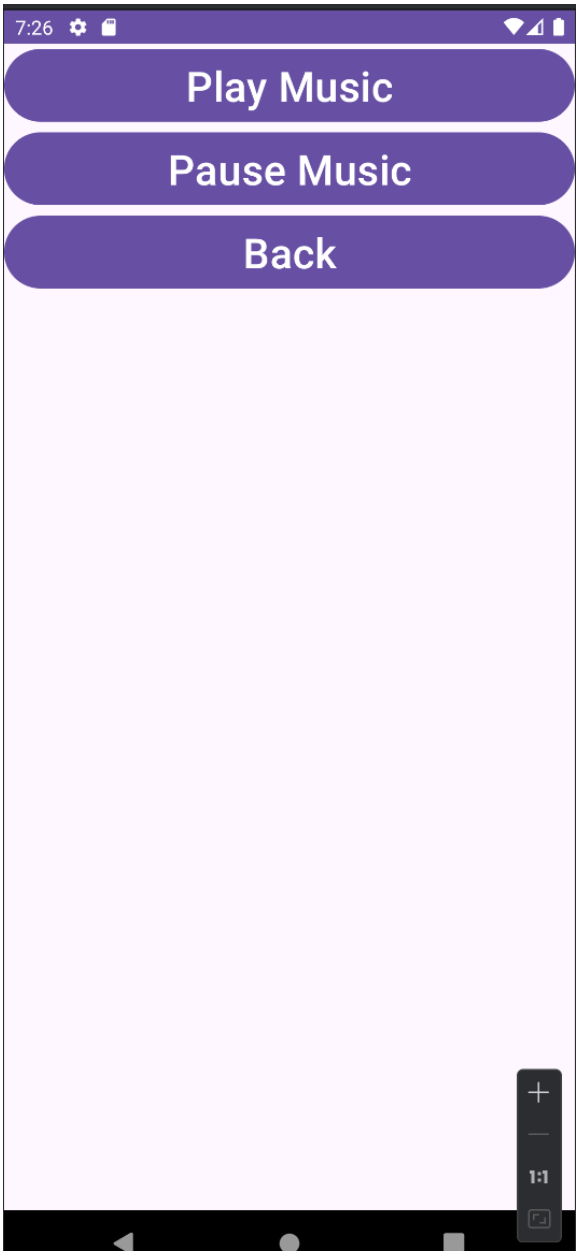


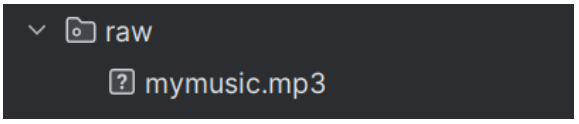



```
package com.example.intentphonesms;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
```

```
import android.widget.EditText;

public class WebActivity extends AppCompatActivity {
    Button btnShowWeb, btnWebBack;
    EditText editTextLink;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_web);
        btnShowWeb = findViewById(R.id.btnShowWeb);
        btnWebBack = findViewById(R.id.btnWebBack);
        editTextLink = findViewById(R.id.editTextLink);

        btnShowWeb.setOnClickListener(new View.OnClickListene
            @Override
            public void onClick(View v) {
                Intent myWebIntent = new Intent(
                  Intent.ACTION_VIEW,
                  Uri.parse("https://"+editTextLink.getText()
                );
                startActivity(myWebIntent);
            }
        });

        btnWebBack.setOnClickListener(new View.OnClickListene
            @Override
            public void onClick(View v) {
                finish();
            }
        });
    }
}
```

5. Music Intent





My Service

```
package com.example.intentphonesms;

import android.app.Service;
import android.content.Intent;
import android.media.MediaPlayer;
import android.os.IBinder;

public class MyService extends Service {
```

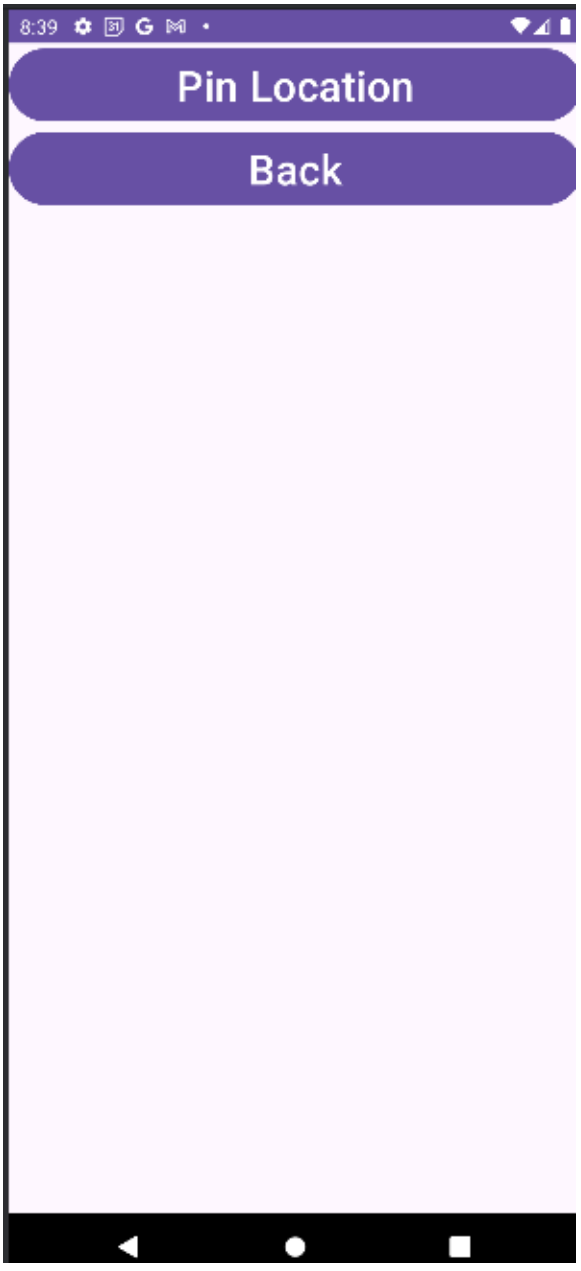
```
    public MyService() {
    }
    MediaPlayer myMusic;

    @Override
    public IBinder onBind(Intent intent) {
        // TODO: Return the communication channel to the serv
        throw new UnsupportedOperationException("Not yet impl
    }

    @Override
    public void onCreate() {
        super.onCreate();
        myMusic = MediaPlayer.create(MyService.this, R.raw.my
        myMusic.setLooping(true);
    }

    @Override
    public int onStartCommand(Intent intent, int flags, int s
        myMusic.start();
        return super.onStartCommand(intent, flags, startId);
    }

    @Override
    public void onDestroy() {
        super.onDestroy();
        myMusic.stop();
    }
}
```

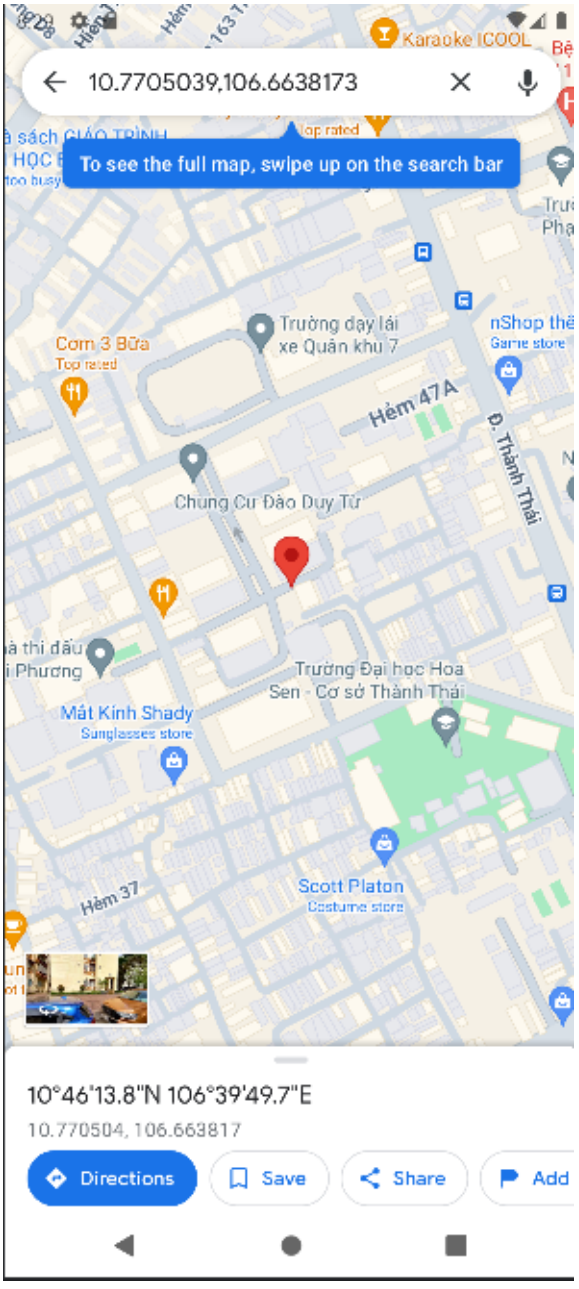
MusicActivity

```
package com.example.intentphonesms;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
```

```
import android.view.View;
import android.widget.Button;

public class MusicActivity extends AppCompatActivity {
    Button btnPlayMusic, btnPauseMusic, btnMusicBack;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_music);
        btnPlayMusic = findViewById(R.id.btnPlayMusic);
        btnPauseMusic = findViewById(R.id.btnPauseMusic);
        btnMusicBack = findViewById(R.id.btnMusicBack);

        btnPlayMusic.setOnClickListener(new View.OnClickListe
            @Override
            public void onClick(View v) {
                Intent myIntentPlay = new Intent(MusicActivit
                startService(myIntentPlay);
            }
        });

        btnPauseMusic.setOnClickListener(new View.OnClickList
            @Override
            public void onClick(View v) {
                Intent myIntentPause = new Intent(MusicActivi
                stopService(myIntentPause);
            }
        });

        btnMusicBack.setOnClickListener(new View.OnClickListe
            @Override
            public void onClick(View v) {
                finish();
            }
        });
    }
}
```

6. Maps Intent






```
package com.example.intentphonesms;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.net.Uri;
```

```
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class MapActivity extends AppCompatActivity {
    Button btnMapBack, btnPin;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_map);
        btnMapBack = findViewById(R.id.btnMapBack);
        btnPin = findViewById(R.id.btnPin);

        String latitudeOne = "10.7705039";
        String longitudeOne = "106.6638173";

        btnPin.setOnClickListener(new View.OnClickListener()
            @Override
            public void onClick(View v) {
                pinLocationMap(latitudeOne, longitudeOne);
            }
        });

        btnMapBack.setOnClickListener(new View.OnClickListene
            @Override
            public void onClick(View v) {
                finish();
            }
        });
    }

    private void pinLocationMap(String latitude, String longi
        Uri mapUri = Uri.parse(
          "https://www.google.com/maps/search/"
          +latitude
          +","
          +longitude
```

```
        );
        Intent myIntentMap = new Intent(Intent.ACTION_VIEW, m
        startActivity(myIntentMap);
    }
}
```