

Lab Report 2 : Createing a personalized visiting card app using implicit intent

Course Title: Mobile Application Development

Course Code: CSE-410



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GitHub Repository:

You can find the repository at the following link:

https://github.com/RubayedMunna/Android-Lab/tree/main/Lab_4

Code:

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:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity"
    android:orientation="vertical"
    android:layout_marginTop="250dp"
    android:layout_marginBottom="330dp"
    android:background="@color/cardview_shadow_start_color"
    >

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

        <ImageView
            android:layout_width="150dp"
            android:layout_height="wrap_content"
            android:layout_marginTop="20dp"

            android:src="@drawable/rubayedimage" />

        <LinearLayout
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:orientation="vertical"
            android:layout_marginLeft="20dp"
            android:layout_marginRight="20dp">

            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="Rubayed All Islam"
                android:layout_weight="1"
```

```
        android:textSize="20sp" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Department: Computer Science and Engineering"
        android:layout_weight="1"
        android:layout_marginTop="10dp"
        android:textSize="15sp" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/session"
        android:layout_weight="1"
        android:layout_marginTop="10dp"
        android:textSize="15sp" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/reg_no"
        android:layout_weight="1"
        android:layout_marginTop="10dp"
        android:textSize="15sp" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/hall"
        android:layout_weight="1"
        android:layout_marginTop="10dp"
        android:textSize="15sp" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/blood_group"
        android:layout_weight="1"
        android:layout_marginTop="10dp"
        android:textSize="15sp" />
</LinearLayout>
</LinearLayout>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:gravity="center"
```

```
        android:layout_marginTop="20dp"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp">

    <!-- Email Icon -->
    <ImageButton
        android:id="@+id/email_button"
        android:layout_width="40dp"
        android:layout_height="40dp"
        android:src="@drawable/icon_email"
        android:contentDescription="@string/email"
        android:background="@android:color/transparent"
        android:layout_marginLeft="16dp"
        android:onClick="sendEmail"/>

    <!-- Phone Icon -->
    <ImageButton
        android:id="@+id/phone_button"
        android:layout_width="40dp"
        android:layout_height="40dp"
        android:src="@drawable/icon_phone"
        android:contentDescription="@string/phone"
        android:background="@android:color/transparent"
        android:layout_marginLeft="16dp"
        android:onClick="dialPhone"/>

    <!-- Facebook Icon -->
    <ImageButton
        android:id="@+id/facebook_button"
        android:layout_width="40dp"
        android:layout_height="40dp"
        android:src="@drawable/icon_facebook"
        android:contentDescription="@string/facebook"
        android:background="@android:color/transparent"
        android:layout_marginLeft="16dp"
        android:onClick="sendMessageFacebook"/>

    <!-- WhatsApp Icon -->
    <ImageButton
        android:id="@+id/whatsapp_button"
        android:layout_width="40dp"
        android:layout_height="40dp"
        android:src="@drawable/icon_whatsapp"
        android:contentDescription="@string/whatsapp"
        android:background="@android:color/transparent"
        android:layout_marginLeft="16dp"
        android:onClick="sendMessageWhatsapp"/>

    <!-- LinkedIn Icon -->
    <ImageButton
```

```
        android:id="@+id/linkedin_button"
        android:layout_width="40dp"
        android:layout_height="40dp"
        android:src="@drawable/icon_linkedin"
        android:contentDescription="@string/linkedin"
        android:background="@android:color/transparent"
        android:layout_marginLeft="16dp"
        android:onClick="viewLinkedIn"/>

        <!-- GitHub Icon -->
        <ImageButton
            android:id="@+id/github_button"
            android:layout_width="40dp"
            android:layout_height="40dp"
            android:src="@drawable/icon_github"
            android:contentDescription="@string/github"
            android:background="@android:color/transparent"
            android:layout_marginLeft="16dp"
            android:onClick="viewGithub"/>
    </LinearLayout>
</LinearLayout>
```

Listing 1: activity_main.xml

MainActivity.java

```
package com.example.myapplication;

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

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;
    });
}

public void sendEmail(View view) {
    Intent intent = new Intent(Intent.ACTION_SENDTO);
    intent.setData(Uri.parse("mailto:jucse29.370@gmail.com"));
    startActivity(intent);
}

public void dialPhone(View view) {
    Intent intent = new Intent(Intent.ACTION_DIAL);
    intent.setData(Uri.parse("tel:+8801864852588"));
    startActivity(intent);
}

public void sendMessenger(View view) {
    Intent intent = new Intent(Intent.ACTION_VIEW);
    intent.setData(Uri.parse("https://www.facebook.com/rubayed.munna"));
    startActivity(intent);
}

public void sendMessageWhatsapp(View view) {
    String whatsappNumber = "+8801864852588";
    String url = "https://wa.me/" + whatsappNumber;
    Intent intent = new Intent(Intent.ACTION_VIEW);
    intent.setData(Uri.parse(url));
    startActivity(intent);
}

public void viewLinkedIn(View view) {
    Intent intent = new Intent(Intent.ACTION_VIEW);
    intent.setData(Uri.parse("https://www.linkedin.com/in/rubayed-all-islam-1683841b4/"));
    startActivity(intent);
}

public void viewGithub(View view) {
    Intent intent = new Intent(Intent.ACTION_VIEW);
    intent.setData(Uri.parse("https://www.github.com/RubayedMunna/"));
    startActivity(intent);
}
}

```

Listing 2: MainActivity.java

strings.xml

```

<resources>
    <string name="app_name">Visiting Card</string>
    <string name="session">Session: 2019-2020</string>
    <string name="reg_no">Registration No: 20200650740</string>
    <string name="hall">Hall: Mir Mosharraf Hossain Hall</string>

```

```
<string name="blood_group">Blood Group: O (+ve)</string>
<string name="email">jucse29.370@gmail.com</string>
<string name="phone">+8801864852588</string>
<string name="facebook">https://m.me/rubayed.munna</string>
<string name="whatsapp">+8801864852588</string>
<string name="linkedin">https://www.linkedin.com/in/rubayed-
    all-islam-1683841b4/</string>
<string name="github">https://github.com/RubayedMunna</string
>

</resources>
```

Listing 3: strings.xml

Output:



Figure 1: Visiting Card

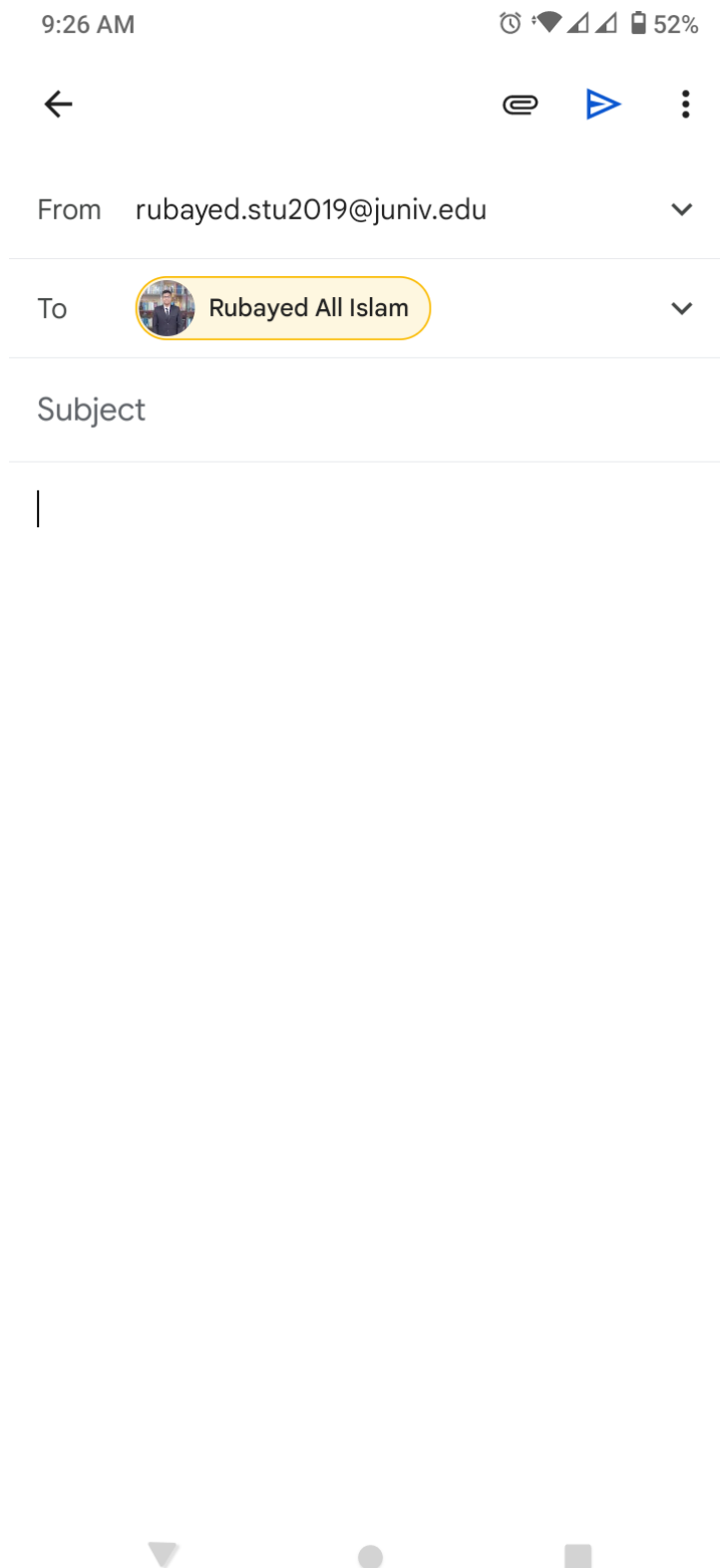


Figure 2: After clicking on email icon

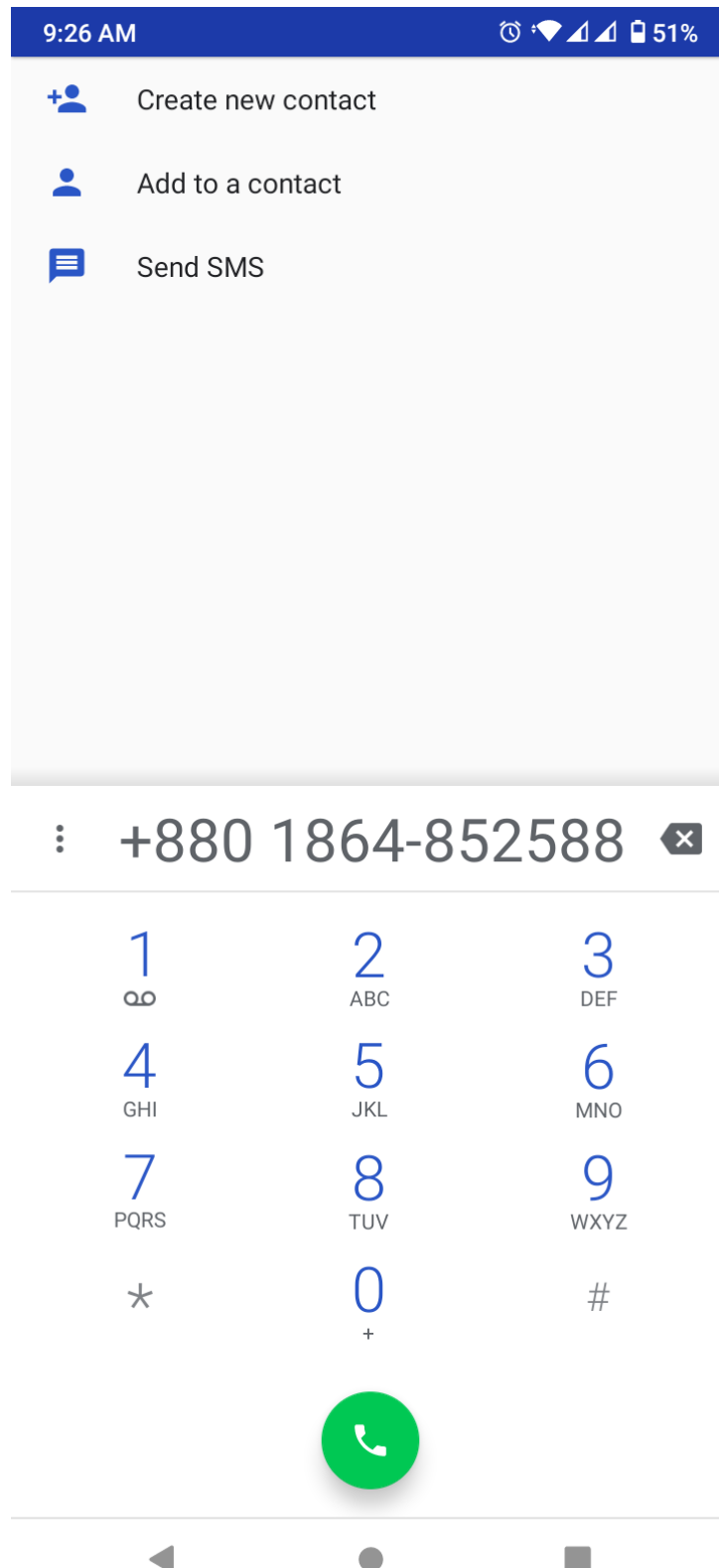


Figure 3: After clicking on dial icon

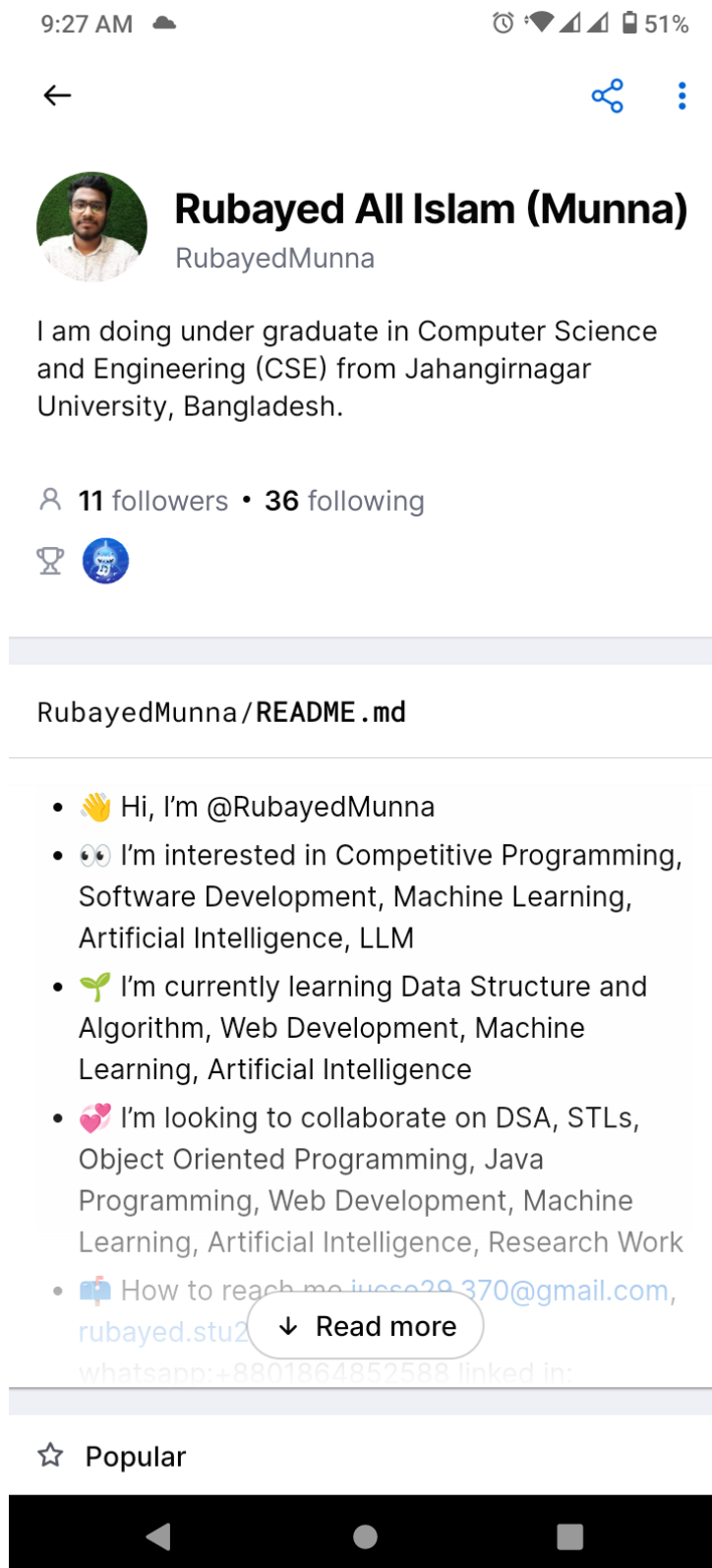


Figure 4: After clicking on Github icon