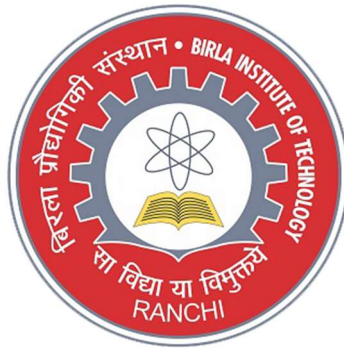


Birla Institute of Technology, Mesra,
Patna Campus



MI-Assignment

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Roll-Btech/15044/18

Sec-CSE 6th

#Assignment-9

Problem Statement :

Implement an application that creates an alert upon receive message

Code :

MainActivity.java

```
import android.app.NotificationChannel;
import android.app.NotificationManager;
import android.app.PendingIntent;
import android.content.Context;
import android.content.Intent;
import android.os.Build;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.annotation.RequiresApi;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.NotificationCompat;

public class MainActivity extends AppCompatActivity {

    Button notify;
    EditText et_notification_title,et_notification_text;

    @Override
```

```

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

    notify = (Button) findViewById(R.id.button);
    et_notification_title = findViewById(R.id.et_notification_title);
    et_notification_text = findViewById(R.id.et_notification_text);

    notify.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
                String notification_title =
et_notification_title.getText().toString();
                String notification_text =
et_notification_text.getText().toString();
                addNotification(notification_title,notification_text);
            }
            else
                Toast.makeText(MainActivity.this, "Hello",
Toast.LENGTH_SHORT).show();
        }
    });
}

@RequiresApi(api = Build.VERSION_CODES.O)
private void addNotification(String notification_title, String
notification_text) {

    NotificationChannel notificationChannel =

        new NotificationChannel("CHANNEL_ID", "name",
NotificationManager.IMPORTANCE_DEFAULT);
    notificationChannel.setDescription("description");

```

```

NotificationCompat.Builder builder =
    new NotificationCompat.Builder(this, notificationChannel.getId())
        .setSmallIcon(R.drawable.ic_notification)
        .setContentTitle(notification_title)
        .setContentText(notification_text);

Intent notificationIntent = new Intent(this, MainActivity.class);
PendingIntent contentIntent = PendingIntent.getActivity(this, 0,
notificationIntent,
    PendingIntent.FLAG_UPDATE_CURRENT);
builder.setContentIntent(contentIntent);

// Add as notification
NotificationManager manager = (NotificationManager)
getSystemService(Context.NOTIFICATION_SERVICE);
manager.notify(0, builder.build());
}

}

```

activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_margin="10dp"
    android:orientation="vertical">

```

```
<EditText
    android:id="@+id/et_notification_title"
    android:hint="Enter Notification title"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:singleLine="true"
    android:textSize="20sp" />
```

```
<EditText
    android:id="@+id/et_notification_text"
    android:hint="Enter Notification Text"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:singleLine="true"
    android:textSize="20sp" />
```

```
<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_margin="30dp"
    android:layout_gravity="center"
    android:text="Notify"
    android:textSize="20sp"/>
```

```
</LinearLayout>
```

Output :

5:36 PM

...9.6KB/s     

Assignment 9

Enter Notification title

Enter Notification Text

NOTIFY

5:39 PM

...12.3KB/s VoLTE 4G 43

Assignment 9

Recharge now

100% data is consumed.

NOTIFY

5:39



Wed, 9 Jun

4.4KB/s VoLTE

Android system ^

Tethering or hotspot active

1 connected device

Turn off

Assignment 9 • now

Recharge now

100% data is consumed.

