VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE

MOBILE APPLICATION DEVELOPMENT HOME ASSIGNMENT

17CS3652B

Submitted By:

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198W1A05C0

CSE-2
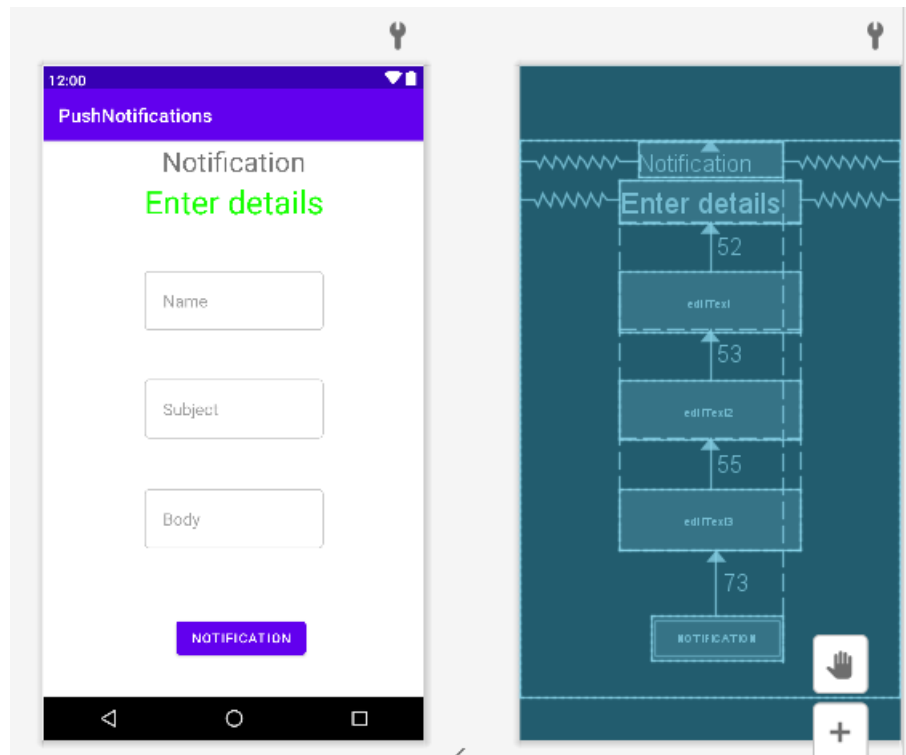
Submitted To:

A .Raghuvira Pratap

Assistant Professor

Aim:

Develop an android application to implement push notifications app

Software's /IDE Tools:
Android Development Kit / Android Studio

Application User interface design:

Application Programming Interface:

API / PACKAGES	CLASSES / INTERFACES	METHODS	DESCRIPTION
import androidx.appcompat.app.AppCompatActivity;	AppCompatActivity	protected void onCreate(Bundle savedInstanceState)	onCreate(Bundle) is where you initialize your activity. When Activity is started and application is not loaded, then both onCreate() methods will be called.
import android.widget.EditText;	EditText	getText()	Determines the minimum type that getText() will return. If set, specifies that this TextView has a textual input method and should automatically capitalize what the user types.

Code/Implementation:
// Develop an android application to implement push notifications

MainActivity.java

```java
package com.eswar.pushnotifications;

import android.app.Notification;
import android.app.NotificationManager;

import android.content.Context;
//import android.support.v7.app.ActionBarActivity;
import android.os.Bundle;
import android.view.View;

import android.widget.Button;
import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    EditText ed1,ed2,ed3;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        ed1=(EditText)findViewById(R.id.editText);
        ed2=(EditText)findViewById(R.id.editText2);
        ed3=(EditText)findViewById(R.id.editText3);
        Button b1=(Button)findViewById(R.id.button);

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String tittle=ed1.getText().toString().trim();
                String subject=ed2.getText().toString().trim();
                String body=ed3.getText().toString().trim();

                NotificationManager
notif=(NotificationManager)getSystemService(Context.NOTIFICATION_SERVICE);
                Notification notify=new Notification.Builder
                    (getApplicationContext()).setContentTitle(tittle).setContentText(body).
                    setContentTitle(subject).setSmallIcon(R.drawable.download).build();

                notify.flags |= Notification.FLAG_AUTO_CANCEL;
                notif.notify(0, notify);
            }
        });
    }
}
```

activity_main.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="@dimen/cardview_default_elevation"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Notification"
        android:id="@+id/textView"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:textSize="30dp" />
    .
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Enter details"
        android:id="@+id/textView2"
        android:layout_below="@+id/textView"
        android:layout_centerHorizontal="true"
        android:textSize="35dp"
        android:textColor="#ff16ff01" />

    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/editText"
        android:layout_below="@+id/textView2"
        android:padding="20dp"
        android:layout_alignLeft="@+id/textView2"
        android:layout_alignStart="@+id/textView2"
        android:layout_marginTop="52dp"
        android:background="@drawable/edit_background"
        android:layout_alignRight="@+id/textView2"
        android:layout_alignEnd="@+id/textView2"
        android:hint="Name" />

    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/editText2"
        android:hint="Subject"
        android:padding="20dp"
        android:layout_marginTop="53dp"
        android:layout_below="@+id/editText"
        android:layout_alignLeft="@+id/editText"
        android:background="@drawable/edit_background"
        android:layout_alignStart="@+id/editText"
        android:layout_alignRight="@+id/editText"
        android:layout_alignEnd="@+id/editText" />

    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:inputType="textPersonName"
        android:ems="10"
```

```
        android:id="@+id/editText3"
        android:layout_marginTop="55dp"
        android:padding="20dp"
        android:hint="Body"
        android:layout_below="@+id/editText2"
        android:background="@drawable/edit_background"
        android:layout_alignLeft="@+id/editText2"
        android:layout_alignStart="@+id/editText2"
        android:layout_alignRight="@+id/editText2"
        android:layout_alignEnd="@+id/editText2" />

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Notification"
        android:id="@+id/button"
        android:layout_marginTop="73dp"
        android:layout_below="@+id/editText3"
        android:layout_alignRight="@+id/textView"
        android:layout_alignEnd="@+id/textView" />

</RelativeLayout>
```

Edit_background.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android"
android:shape="rectangle">
    <stroke android:width="1dp"
android:color="@color/cardview_shadow_start_color" />
    <corners android:radius="5dp"/>
    <solid android:color="@color/white"/>
</shape>
```
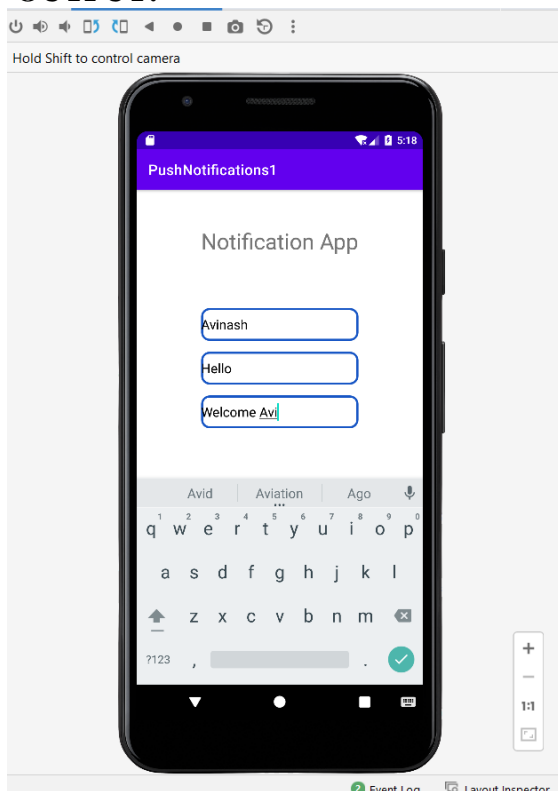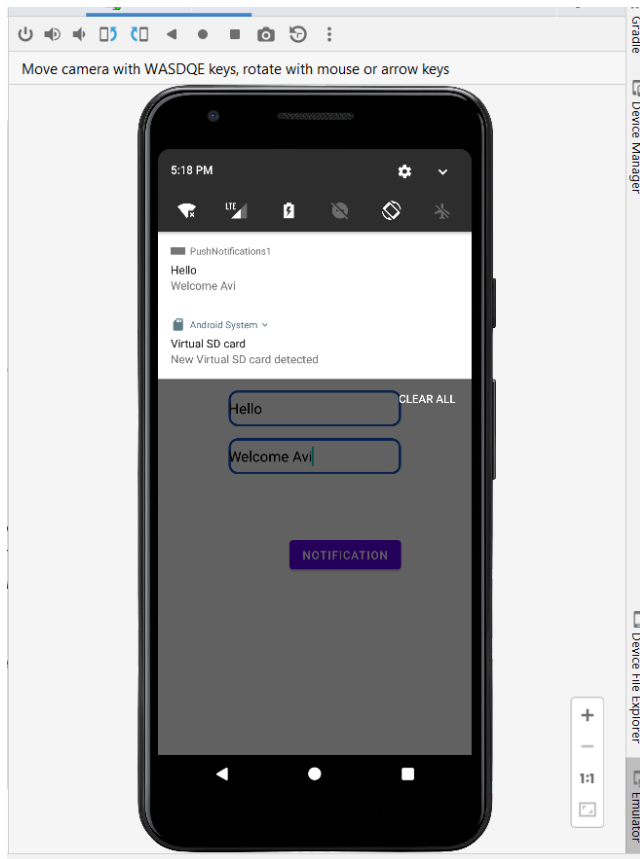
OUTPUT:

Result:
Demonstration of the DatePicker Application were done successfully