

SYNOPSIS

1.1 TITLE OF THE PROJECT

“Android App to find restaurant nearby in city”

1.2 INTRODUCTION

Android is a mobile operating system developed by Google, based on a modified version of the Linux kernel and other opensource software and designed primarily for touchscreen mobile devices such as smartphones and tablets. In addition, Google has further developed Android TV for televisions, Android Auto for cars, and Wear OS for wrist watches, each with a specialized user interface. Variants of Android are also used on game consoles, digital cameras, PCs and other electronics.

1.3 OBJECTIVES

The app can be used by any person for checking restaurant their city App takes your location into consideration and displays all the nearby hotels with their address so that user can directly contact the restaurant and enquire about the place.

1.4 PROJECT CATEGORY

☐ Mobile Application

1.5 LANGUAGE USED

☐ Front End: XML

☐ Back End: Java

1.6 HARDWARE REQUIREMENTS

☐ RAM: 16GB RAM or above

☐ Hard disk: 256GB hard disk or above

☐ Mobile device

1.7 SOFTWARE REQUIREMENTS

☐ Operating system: windows 10 & above

☐ Java Development kit 7 +

☐ Android Studio 3.1.4 +

☐ Android SDK Manager

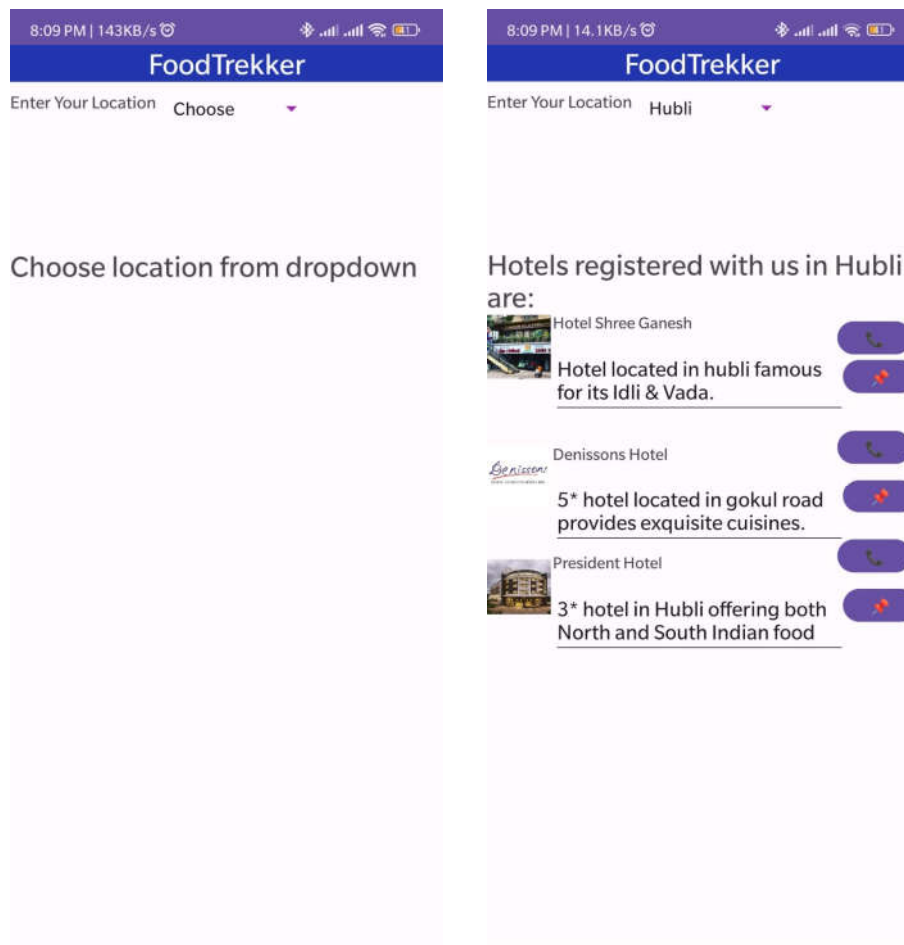
1.8 LIMITATIONS

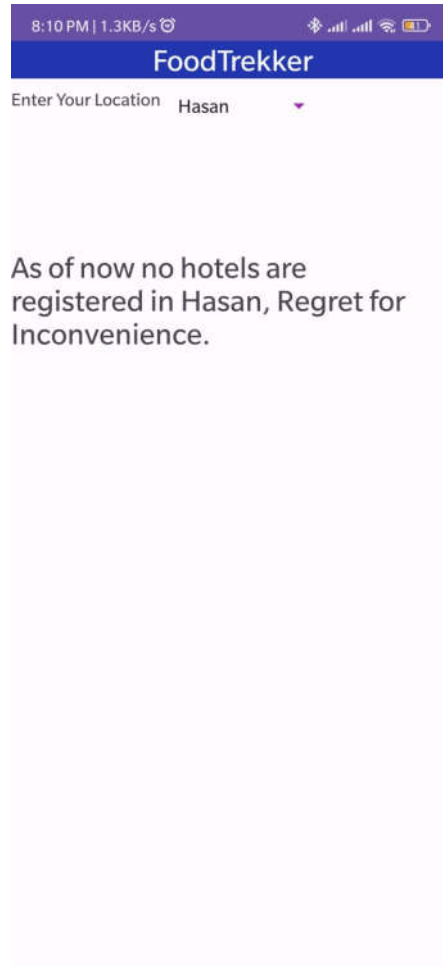
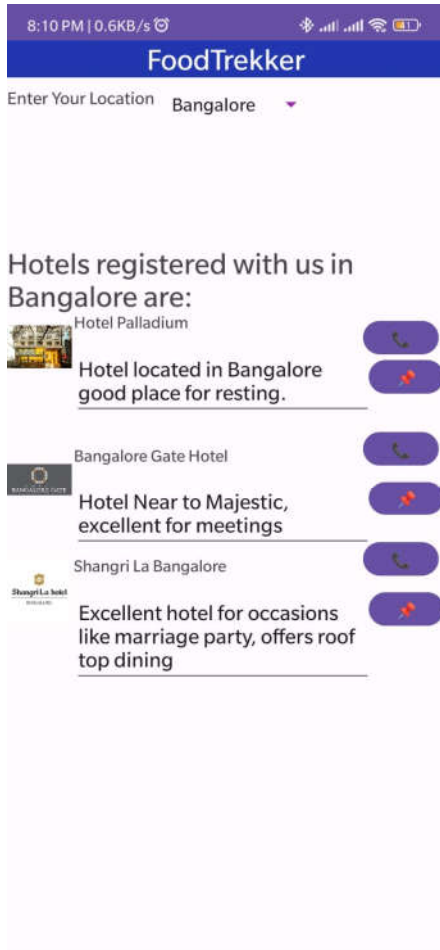
- The mobile should be connected to the internet
- Basic knowledge of computers and the internet is important

1.9 FUTURE SCOPE

FoodTrekker has a promising future with various avenues for expansion and enhancement. Firstly, integrating advanced recommendation algorithms could provide users with tailored restaurant suggestions based on their preferences and past choices. Additionally, further refining the review system to include comprehensive feedback, images, and even video reviews would offer a richer user experience. Expanding the app's capabilities to facilitate restaurant reservations directly through the platform and incorporating delivery and takeout services would make it a comprehensive dining companion. Considering multi-platform support, including Android, iOS, and potentially a web application, would broaden its accessibility. Moreover, embracing social networking features, such as the ability to follow friends and plan group outings, could foster a sense of community among users. The app could also benefit from language localization to cater to a global audience, while cuisine-specific features like dietary filters and cultural preferences could enhance its relevance.

1.10 SCREENSHOTS





CODE:

header.xml

```
<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout 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:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="#2136AF">

    <RelativeLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content">

        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textSize="25sp"
            android:text="FoodTrekker"
            android:textColor="@color/white"
            android:gravity="center"/>
        </RelativeLayout>
    </RelativeLayout>
```

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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity" >
    <include layout="@layout/header"/>
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="8sp"
            android:text="Enter Your Location"
            android:textSize="15dp" />
        <Spinner
            android:id="@+id/spinner_dropdown"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginLeft="140dp"
            android:backgroundTint="#9C27B0"
            android:spinnerMode="dropdown" />
        <TextView
            android:id="@+id/info"
            android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
        android:layout_marginTop="150dp"
        android:text=""
        android:textSize="25sp" />
<ImageView
    android:id="@+id/img1"
    android:layout_width="58dp"
    android:layout_height="64dp"
    android:layout_marginTop="210dp"
    tools:srcCompat="@tools:sample/avatars" />
<TextView
    android:id="@+id/h1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="60dp"
    android:layout_marginTop="210dp"
    android:text="TextView" />
<EditText
    android:id="@+id/h1_details"
    android:layout_width="268dp"
    android:layout_height="wrap_content"
    android:layout_marginLeft="60dp"
    android:layout_marginTop="240dp"
    android:ems="10"
    android:gravity="start|top"
    android:editable="false"/>
<Button
    android:id="@+id/call1"
    android:layout_width="68dp"
    android:layout_height="38dp"
```

```
    android:layout_marginLeft="320dp"
    android:layout_marginTop="215dp"
    android:text="☎" />
```

```
<Button
```

```
    android:id="@+id/map1"
    android:layout_marginLeft="325dp"
    android:layout_marginTop="250dp"
    android:layout_width="68dp"
    android:layout_height="38dp"
    android:text="📌" />
```

```
<ImageView
```

```
    android:id="@+id/img3"
    android:layout_width="58dp"
    android:layout_height="64dp"
    android:layout_marginTop="430dp"
    tools:srcCompat="@tools:sample/avatars" />
```

```
<TextView
```

```
    android:id="@+id/h3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="60dp"
    android:layout_marginTop="430dp"
    android:text="TextView" />
```

```
<EditText
```

```
    android:id="@+id/h3_details"
    android:layout_width="268dp"
    android:layout_height="wrap_content"
    android:layout_marginLeft="60dp"
    android:layout_marginTop="460dp"
    android:ems="10"
```

```
        android:gravity="start|top"
        android:editable="false" />
<Button
    android:id="@+id/call3"
    android:layout_width="68dp"
    android:layout_height="38dp"
    android:layout_marginLeft="320dp"
    android:layout_marginTop="415dp"
    android:text="☎️" />
<Button
    android:id="@+id/map3"
    android:layout_marginLeft="325dp"
    android:layout_marginTop="460dp"
    android:layout_width="68dp"
    android:layout_height="38dp"
    android:text="📍" />
<ImageView
    android:id="@+id/img2"
    android:layout_width="58dp"
    android:layout_height="64dp"
    android:layout_marginTop="330dp"
    tools:srcCompat="@tools:sample/avatars" />
<TextView
    android:id="@+id/h2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="60dp"
    android:layout_marginTop="330dp"
    android:text="TextView" />
<EditText
```



```
android:id="@+id/h2_details"  
android:layout_width="268dp"  
android:layout_height="wrap_content"  
android:layout_marginLeft="60dp"  
android:layout_marginTop="360dp"  
android:ems="10"  
android:gravity="start|top"  
android:editable="false" />
```

```
<Button
```

```
    android:id="@+id/call2"  
    android:layout_width="68dp"  
    android:layout_height="38dp"  
    android:layout_marginLeft="320dp"  
    android:layout_marginTop="315dp"  
    android:text="☎" />
```

```
<Button
```

```
    android:id="@+id/map2"  
    android:layout_marginLeft="325dp"  
    android:layout_marginTop="360dp"  
    android:layout_width="68dp"  
    android:layout_height="38dp"  
    android:text="📌" />
```

```
</RelativeLayout>
```

```
</LinearLayout>
```

MainActivity.java

```
package com.example.foodtrekker;

import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.content.Intent;
import android.content.res.Resources;
import android.graphics.drawable.Drawable;
import android.net.Uri;
import android.os.Build;
import android.util.Log;
import android.view.View;
import android.widget.*;
import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

    Spinner drop;
    TextView info;
    String[] items={"Choose","Hubli","Bangalore","Hasan"};
    ImageView img1,img2,img3;
    TextView hotel1,hotel2,hotel3;
    EditText hotel1_details,hotel2_details,hotel3_details;
    Button call1,call2,call3;
    Button map1,map2,map3;
    @SuppressLint("SetTextI18n")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        drop=(Spinner) findViewById(R.id.spinner_dropdown);
        ArrayAdapter<String>adapter=new ArrayAdapter<>(this,
            android.R.layout.simple_spinner_dropdown_item,items);
```

```

drop.setAdapter(adapter);
info=(TextView)findViewById(R.id.info);
hotel1=(TextView) findViewById(R.id.h1);
hotel2=(TextView) findViewById(R.id.h2);
hotel3=(TextView) findViewById(R.id.h3);
hotel1_details=(EditText) findViewById(R.id.h1_details);
hotel2_details=(EditText) findViewById(R.id.h2_details);
hotel3_details=(EditText) findViewById(R.id.h3_details);
call1=(Button) findViewById(R.id.call1);
call2=(Button) findViewById(R.id.call2);
call3=(Button) findViewById(R.id.call3);
map1=(Button) findViewById(R.id.map1);
map2=(Button) findViewById(R.id.map2);
map3=(Button) findViewById(R.id.map3);
img1=(ImageView) findViewById(R.id.img1);
img2=(ImageView) findViewById(R.id.img2);
img3=(ImageView) findViewById(R.id.img3);
invisible();
drop.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
        String selectedItem=items[i];
        Log.d("Dropdown","Selected item:"+selectedItem);
        if(selectedItem!="Choose") {
            info.setText("Hotels registered with us in " + selectedItem + " are:");
            switch(selectedItem){
                case "Hubli":
                    hubli();
                    break;
                case "Bangalore":

```

```

        bangalore();
        break;
    case "Hasan":
        info.setText("As of now no hotels are registered in Hasan, Regret " +
            "for Inconvenience.");
        invisible();
        break;
    default:
        Toast.makeText(MainActivity.this,"Invalid
Option",Toast.LENGTH_LONG).show();
        break;
    }
}
else {
    info.setText("");
    invisible();
}
}

@Override
public void onNothingSelected(AdapterView<?> adapterView) {
    Log.d("No DropDown","No item Selected");
}

});
}

public void hubli(){
    img1.setImageResource(R.drawable.ganesh_ubl);
    hotel1.setText("Hotel Shree Ganesh");
    hotel1_details.setText("Hotel located in hubli famous for its Idli & Vada.");
    call1.setOnClickListener(new View.OnClickListener() {
        @Override

```

```
        public void onClick(View v) {
            call("1234567890");
        }
    });

    map1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            map("15.35523529882348,75.1413573652321");
        }
    });

    img2.setImageResource(R.drawable.denissons_ubl);
    hotel2.setText("Denissons Hotel");
    hotel2_details.setText("5* hotel located in gokul road provides exquisite cuisines.");
    call2.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            call("0987654321");
        }
    });

    map2.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            map("15.349182846683652,75.11276123792824");
        }
    });

    img3.setImageResource(R.drawable.president_ubl);
    hotel3.setText("President Hotel");
    hotel3_details.setText("3* hotel in Hubli offering both North and South Indian food");
    call3.setOnClickListener(new View.OnClickListener() {
        @Override
```

```
        public void onClick(View v) {
            call("7854965123");
        }
    });
    map3.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            map("15.382082664586198,75.11360756676474");
        }
    });
    visible();
}

public void bangalore(){
    img1.setImageResource(R.drawable.palladium_blr);
    hotel1.setText("Hotel Palladium");
    hotel1_details.setText("Hotel located in Bangalore good place for resting.");
    call1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            call("2323252121");
        }
    });
    map1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            map("12.978893801339906, 77.57951232624052");
        }
    });
    img2.setImageResource(R.drawable.bangalore_gate_blr);
    hotel2.setText("Bangalore Gate Hotel");
```

```
hotel2_details.setText("Hotel Near to Majestic, excellent for meetings");
call2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        call("0987654321");
    }
});
map2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        map("12.973794556814324, 77.57919369555425");
    }
});
img3.setImageResource(R.drawable.shangri_la_blr);
hotel3.setText("Shangri La Bangalore");
hotel3_details.setText("Excellent hotel for occasions like marriage party, " +
    "offers roof top dining");
call3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        call("7854965123");
    }
});
map3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        map("12.992058162833168, 77.58817497836102");
    }
});
visible();
```

```
}  
public void hasan(){  
public void invisible(){  
    hotel1.setVisibility(View.INVISIBLE);  
    hotel2.setVisibility(View.INVISIBLE);  
    hotel3.setVisibility(View.INVISIBLE);  
    hotel1_details.setVisibility(View.INVISIBLE);  
    hotel2_details.setVisibility(View.INVISIBLE);  
    hotel3_details.setVisibility(View.INVISIBLE);  
    call1.setVisibility(View.INVISIBLE);  
    call2.setVisibility(View.INVISIBLE);  
    call3.setVisibility(View.INVISIBLE);  
    map1.setVisibility(View.INVISIBLE);  
    map2.setVisibility(View.INVISIBLE);  
    map3.setVisibility(View.INVISIBLE);  
    img1.setVisibility(View.INVISIBLE);  
    img2.setVisibility(View.INVISIBLE);  
    img3.setVisibility(View.INVISIBLE); }  
public void visible(){  
    hotel1.setVisibility(View.VISIBLE);  
    hotel2.setVisibility(View.VISIBLE);  
    hotel3.setVisibility(View.VISIBLE);  
    hotel1_details.setVisibility(View.VISIBLE);  
    hotel2_details.setVisibility(View.VISIBLE);  
    hotel3_details.setVisibility(View.VISIBLE);  
    call1.setVisibility(View.VISIBLE);  
    call2.setVisibility(View.VISIBLE);  
    call3.setVisibility(View.VISIBLE);  
    map1.setVisibility(View.VISIBLE);  
    map2.setVisibility(View.VISIBLE);
```



```
        map3.setVisibility(View.VISIBLE);
        img1.setVisibility(View.VISIBLE);
        img2.setVisibility(View.VISIBLE);
        img3.setVisibility(View.VISIBLE);
    }
    public void call(String number){
        Uri uri=Uri.parse("tel:"+number);
        Intent call=new Intent(Intent.ACTION_DIAL,uri);
        try{
            startActivity(call);
        }
        catch(Exception e){
            e.printStackTrace();
        }
    }
    public void map(String geoLocation){
        Uri location=Uri.parse("geo:"+geoLocation+"?z=15");
        Intent openMap=new Intent(Intent.ACTION_VIEW,location);
        openMap.setPackage("com.google.android.apps.maps");
        try{
            startActivity(openMap);
        }
        catch(Exception e){
            e.printStackTrace();
        }
    }
}
```