# SINHGAD INSTITUTE OF TECHNOLOGY LONAVALA

# SAVITRIBAI PHULE PUNE UNIVERSITY

## A

## PROJECT REPORT

## ON

## LONAVALA CITY GUIDE

### SUBMITTED IN FULFILLMENT FOR SUBMISSION

### OF

## Skill Development Lab

### SUBMITTED BY

**Akshay Pomane [TEC 61]**
**Kirtana Mudaliar [TEC 24]**
**Pranjal Patil [TEC 31]**
**Pranit Nigde [TEA 54]**

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## CERTIFICATE

This is certified that the Mini Project Entitled

## Lonavala City Guide

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# Introduction

**Project Title:** **Lonavala City Guide**

**Software Used:** **Android Studio, SQLite, RoomDataBase**

**Main Features:**

- Provides a detail idea about the Lonavala city.

- Provided validations to the Registration, Login page, Daily Planner.

- Provides details about the hotels and the gives a direct google map access for the same also providing its official website and contact numbers.

- Provides details about the hotels and also gives us a direct google map access for the same also providing its official website and contact numbers.

- Provides details about the near by tourist destinations and the gives a direct google map access to the same also providing its official website and contact numbers.

- Provides access to the nearby hospitals in case of emergency.

-  Also provides a TODO-List or say a Daily Planner which will help to create an activity, update an activity also delete an activity.

# Objective

The primary objectives of the City Guide are:

1.To give the tourist the full idea about Lonavala City and without any third party getting involved the tourist can enjoy the place.

2.Seperate Login and registration page for the user to use various functionalities also provided with the validations.

3.Provided a google map access to the hotels, hospitals, shopping malls, etc. which will provide a direct access to the maps and provides contacts also for the same.

4.Feature of a TODO list is also provided, which can add an event, save the event, update the status of the event saying whether the activity is complete or incomplete which gives us an idea if we have completed the activity planned for the day.

# Motivation

Motivation coming from the one amongst us is truly inspiring, same is the idea when it comes to our project. The motivation to build this application basically comes from the idea as we see many tourists people visiting our place.

These people are unaware of the places to visit, the hotels to dine in and also about various entertainment places.0ur application will provide a detailed idea about everything under one roof.

The local people at times tend to cheat tourists which gives a bad impression about Lonavala, we being the people residing here always wished that the tourists visiting our place should leave with good memories about the place, so as a step for the same we have developed an application for our own Lonavala.

# Project Code

## 1. Code for Daily-Planner or say TODO List-

-Add Task Activity

```java
package com.example.lonavalacityguide.daily_planner;

import android.content.Intent;
import android.os.AsyncTask;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

import com.example.lonavalacityguide.R;

public class AddTaskActivity extends AppCompatActivity {

    public EditText etTask,etDesc,etFinish;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_add_task);

        etTask=findViewById(R.id.etAddTask);
        etDesc=findViewById(R.id.etDescription);
        etFinish=findViewById(R.id.etFinish);

        findViewById(R.id.btnSave).setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                saveTask();
            }
        });
    }

    private void saveTask() {

        final String task=etTask.getText().toString().trim();
        final String desc=etDesc.getText().toString().trim();
        final String finish=etFinish.getText().toString().trim();

        if(task.isEmpty()){
            etTask.setError("Task Required");
            etTask.requestFocus();
            return;
        }
        if(desc.isEmpty()){
            etDesc.setError("Description Required");
            etDesc.requestFocus();
            return;
        }
        if(finish.isEmpty()){
```

```
                etFinish.setError("Finish by Required");
                etFinish.requestFocus();
                return;
        }

        class SaveTask extends AsyncTask<Void,Void,Void>{


            @Override
            protected Void doInBackground(Void… voids) {
                Task saveTask=new Task();
                saveTask.setTask(task);
                saveTask.setDesc(desc);
                saveTask.setFinishBY(finish);
                saveTask.setFinished(false);

                DatabaseClient.getInstance(getApplicationContext()).getAppDatabase()
                        .taskDao().insert(saveTask);

                return null;


            }
            @Override
            protected void onPostExecute(Void aVoid) {
                super.onPostExecute(aVoid);
                finish();
                startActivity(new Intent(getApplicationContext(),
MainTaskActivity.class));
                Toast.makeText(getApplicationContext(), "Saved",
Toast.LENGTH_LONG).show();
                }
        }

        SaveTask st=new SaveTask();
        st.execute();
    }
}
```

## -Main Task Activity

```
package com.example.lonavalacityguide.daily_planner;

import android.content.Intent;
import android.os.AsyncTask;
import android.os.Bundle;
import android.support.design.widget.FloatingActionButton;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.LinearLayoutManager;
import android.support.v7.widget.RecyclerView;
import android.view.View;

import com.example.lonavalacityguide.R;

import java.util.List;

public class MainTaskActivity extends AppCompatActivity {
    private FloatingActionButton fabAddTask;
    private RecyclerView recyclerView;

    @Override
```

```java
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main_task);

        recyclerView=findViewById(R.id.recyclerviewtasks);
        recyclerView.setLayoutManager(new LinearLayoutManager(this));

        fabAddTask=findViewById(R.id.floatingActionButton);
        fabAddTask.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new
Intent(MainTaskActivity.this,AddTaskActivity.class));

            }
        });
        getTasks();
    }

    private void getTasks() {
        class GetTasks extends AsyncTask<Void,Void,List<Task>>{


            @Override
            protected List<Task> doInBackground(Void... voids) {
                List<Task> taskList=DatabaseClient
                        .getInstance(getApplicationContext())
                        .getAppDatabase()
                        .taskDao()
                        .getAll();
                return  taskList;
            }

            @Override
            protected void onPostExecute(List<Task> tasks) {
                super.onPostExecute(tasks);
                TaskAdapter adapter=new TaskAdapter(MainTaskActivity.this,tasks);
                recyclerView.setAdapter(adapter);
            }
        }

        GetTasks gt=new GetTasks();
        gt.execute();
    }
}
```

-Task

```java
package com.example.lonavalacityguide.daily_planner;

import android.arch.persistence.room.ColumnInfo;
import android.arch.persistence.room.Entity;
import android.arch.persistence.room.PrimaryKey;

import java.io.Serializable;

@Entity
public class Task implements Serializable {
    @PrimaryKey(autoGenerate = true)
    private int id;
```

```java
    @ColumnInfo(name="task")
    private String task;

    @ColumnInfo(name="desc")
    private String desc;

    @ColumnInfo(name="finishBy")
    private String finishBY;

    @ColumnInfo(name="finished")
    private boolean finished;


    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getTask() {
        return task;
    }

    public void setTask(String task) {
        this.task = task;
    }

    public String getDesc() {
        return desc;
    }

    public void setDesc(String desc) {
        this.desc = desc;
    }

    public String getFinishBY() {
        return finishBY;
    }

    public void setFinishBY(String finishBY) {
        this.finishBY = finishBY;
    }

    public boolean isFinished() {
        return finished;
    }

    public void setFinished(boolean finished) {
        this.finished = finished;
    }
}
```

-Task Adapter

```java
package com.example.lonavalacityguide.daily_planner;

import android.content.Context;
```

```java
import android.content.Intent;
import android.support.annotation.NonNull;
import android.support.v7.widget.RecyclerView;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;

import com.example.lonavalacityguide.R;

import java.util.List;

public class TaskAdapter extends RecyclerView.Adapter<TaskAdapter.TaskViewHolder> {
    private Context context;
    private List<Task> taskList;

    public TaskAdapter(Context context, List<Task> taskList) {
        this.context = context;
        this.taskList = taskList;
    }

    @NonNull
    @Override
    public TaskViewHolder onCreateViewHolder(@NonNull ViewGroup viewGroup, int i) {
        View view=
LayoutInflater.from(context).inflate(R.layout.tasks_layout,viewGroup,false);
        return new TaskViewHolder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull TaskViewHolder viewHolder, int i) {
        Task task=taskList.get(i);
        viewHolder.textViewTask.setText(task.getTask());
        viewHolder.textViewDesc.setText(task.getDesc());
        viewHolder.textViewFinishBy.setText(task.getFinishBY());

        if(task.isFinished()){
            viewHolder.textViewStatus.setText("Completed");
        }else
            viewHolder.textViewStatus.setText("Not completed");

    }

    @Override
    public int getItemCount() {
        return taskList.size();
    }

    class TaskViewHolder extends RecyclerView.ViewHolder implements
View.OnClickListener {
        TextView textViewStatus, textViewTask, textViewDesc, textViewFinishBy;
        public TaskViewHolder(@NonNull View itemView) {
            super(itemView);
            textViewStatus=itemView.findViewById(R.id.textViewStatus);
            textViewTask=itemView.findViewById(R.id.textViewTask);
            textViewDesc=itemView.findViewById(R.id.textViewDesc);
            textViewFinishBy=itemView.findViewById(R.id.textViewFinishBy);

            itemView.setOnClickListener(this);

        }

        @Override
```

```
        public void onClick(View v) {
            Task task=taskList.get(getAdapterPosition());
            Intent intent=new Intent(context,UpdateTaskActivity.class);
            intent.putExtra("task", task);
            context.startActivity(intent);


        }
    }
}
```

## -Update Task Activity

```java
package com.example.lonavalacityguide.daily_planner;

import android.content.DialogInterface;
import android.content.Intent;
import android.os.AsyncTask;
import android.os.Bundle;
import android.support.v7.app.AlertDialog;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.Toast;

import com.example.lonavalacityguide.R;

public class UpdateTaskActivity extends AppCompatActivity {

private EditText etTask,etDesc,etFinish;
private CheckBox checkBoxFinished;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_update_task);

    etTask=findViewById(R.id.editTextTask);
    etDesc=findViewById(R.id.editTextDesc);
    etFinish=findViewById(R.id.editTextFinishBy);

    checkBoxFinished=findViewById(R.id.checkBoxFinished);

    final Task task= (Task) getIntent().getSerializableExtra("task");
    loadTask(task);

    findViewById(R.id.button_update).setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {

Toast.makeText(getApplicationContext(),"Clicked",Toast.LENGTH_SHORT).show();
            updateTask(task);
        }
    });

    findViewById(R.id.button_delete).setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            AlertDialog.Builder builder=new
AlertDialog.Builder(UpdateTaskActivity.this);
```

```java
                builder.setTitle("Are you sure?");
                builder.setPositiveButton("Yes", new DialogInterface.OnClickListener() {
                    @Override
                    public void onClick(DialogInterface dialog, int which) {
                        deleteTask(task);
                    }
                });
                builder.setNegativeButton("No", new DialogInterface.OnClickListener() {
                    @Override
                    public void onClick(DialogInterface dialog, int which) {

                    }
                });

                AlertDialog alertDialog=builder.create();
                alertDialog.show();
            }
        });

    }

    private void deleteTask(final Task task) {
        class DeleteTask extends AsyncTask<Void,Void,Void>{


            @Override
            protected Void doInBackground(Void... voids) {
                DatabaseClient.getInstance(getApplicationContext()).getAppDatabase()
                        .taskDao()
                        .delete(task);
                return null;
            }

            @Override
            protected void onPostExecute(Void aVoid) {
                super.onPostExecute(aVoid);
                Toast.makeText(getApplicationContext(), "Deleted",
Toast.LENGTH_LONG).show();
                finish();
                startActivity(new Intent(UpdateTaskActivity.this,
MainTaskActivity.class));
            }
        }
        DeleteTask deleteTask=new DeleteTask();
        deleteTask.execute();
    }

    private void updateTask(final Task task) {
    final String mTask=etTask.getText().toString().trim();
    final String mDesc=etDesc.getText().toString().trim();
    final String mFinish=etFinish.getText().toString().trim();

        if(mTask.isEmpty()){
            etTask.setError("Task Required");
            etTask.requestFocus();
            return;
        }
        if(mDesc.isEmpty()){
            etDesc.setError("Description Required");
            etDesc.requestFocus();
            return;
        }
        if(mFinish.isEmpty()){
```

```
                etFinish.setError("Finish by Required");
                etFinish.requestFocus();
                return;
        }

        class UpdateTask extends AsyncTask<Void,Void,Void>{

            @Override
            protected Void doInBackground(Void... voids) {
                task.setTask(mTask);
                task.setDesc(mDesc);
                task.setFinishBY(mFinish);
                task.setFinished(checkBoxFinished.isChecked());

                DatabaseClient.getInstance(getApplicationContext()).getAppDatabase()
                        .taskDao()
                        .update(task);
                return null;

        }

            @Override
            protected void onPostExecute(Void aVoid) {
                super.onPostExecute(aVoid);
                Toast.makeText(getApplicationContext(), "Updated",
Toast.LENGTH_LONG).show();
                finish();
                startActivity(new Intent(UpdateTaskActivity.this,
MainTaskActivity.class));
            }
        }

        UpdateTask ut=new UpdateTask();
        ut.execute();
    }

    private void loadTask(Task task) {
    etTask.setText(task.getTask());
    etDesc.setText(task.getDesc());
    etFinish.setText(task.getFinishBY());
    checkBoxFinished.setChecked(task.isFinished());
    }
}
```

## -App Data Base

```
package com.example.lonavalacityguide.daily_planner;

import android.arch.persistence.room.Database;
import android.arch.persistence.room.RoomDatabase;

@Database(entities = {Task.class},version = 1)
public abstract class AppDatabase extends RoomDatabase {
    public abstract TaskDao taskDao();
}
```

## -Task Duo

```java
package com.example.lonavalacityguide.daily_planner;


import android.arch.persistence.room.Dao;
import android.arch.persistence.room.Delete;
import android.arch.persistence.room.Insert;
import android.arch.persistence.room.Query;
import android.arch.persistence.room.Update;

import java.util.List;

@Dao
public interface TaskDao {

    @Query("SELECT * FROM task")
    List<Task> getAll();

    @Insert
    void insert(Task task);

    @Delete
    void delete(Task task);

    @Update
    void update(Task task);
}
```

## -Data Base Client

```java
package com.example.lonavalacityguide.daily_planner;


import android.arch.persistence.room.Room;
import android.content.Context;

public class DatabaseClient {

    private Context context;
    private static DatabaseClient databaseClient;

    private AppDatabase appDatabase;

    private DatabaseClient(Context context){
        this.context=context;
        appDatabase=
Room.databaseBuilder(context,AppDatabase.class,"MyTodos").build();
    }

    public static synchronized DatabaseClient getInstance(Context ctx){
        if(databaseClient==null){
            databaseClient=new DatabaseClient(ctx);
        }
        return databaseClient;
    }

    public AppDatabase getAppDatabase() {
        return appDatabase;
    }
}
```

## Layout of Daily Planner

Activity_add_task.xml

Code-

```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="match_parent"
    tools:context=".daily_planner.AddTaskActivity">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="-2dp"
        android:layout_marginTop="84dp"
        android:orientation="vertical"
        android:padding="16dp">

        <TextView
            android:id="@+id/textView"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:gravity="center"
            android:text="Add a Task!"
            android:textSize="30sp"
            app:fontFamily="sans-serif-condensed-medium" />

        <EditText
            android:id="@+id/etAddTask"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="15dp"
            android:ems="10"
            android:hint="Add task"
            android:inputType="textPersonName" />

        <EditText
            android:id="@+id/etDescription"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="15dp"
            android:ems="10"
            android:hint="Add description"
            android:inputType="textPersonName" />

        <EditText
            android:id="@+id/etFinish"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="15dp"
            android:ems="10"
            android:hint="Finish by"
            android:inputType="textPersonName" />

        <Button
```

```
        android:id="@+id/btnSave"
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_margin="15dp"
        android:background="#4527A0"
        android:padding="10dp"
        android:text="Save"
        android:textSize="18sp"
        android:textStyle="bold" />
    </LinearLayout>
</RelativeLayout>
```

Layout-

# 2.Code for Hotels

## -Hotel Adapter

```java
package com.example.lonavalacityguide.hotel.adapter;

import android.content.Context;
import android.support.annotation.NonNull;
import android.support.v7.widget.RecyclerView;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;
import com.example.lonavalacityguide.R;
import com.example.lonavalacityguide.hotel.model.Hotel;

import java.util.ArrayList;
import java.util.List;

public class HotelAdapter extends RecyclerView.Adapter<HotelAdapter.ViewHolder> {

    private ArrayList<Hotel> hotels;
    ItemClicked activity;

    public interface ItemClicked{
        void onItemClicked(int index);
    }

    public HotelAdapter() {
    }

    public HotelAdapter(Context context, ArrayList<Hotel> hotels) {
        activity= (ItemClicked) context;
        this.hotels = hotels;

    }

    public class ViewHolder extends RecyclerView.ViewHolder{

        TextView tvHotelName;
        ImageView tvHotelImage;

        public ViewHolder(@NonNull View itemView) {
            super(itemView);
            tvHotelName=itemView.findViewById(R.id.tvHotelName);
            tvHotelImage=itemView.findViewById(R.id.tvHotelImage);

            itemView.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View view) {
                    activity.onItemClicked(hotels.indexOf(view.getTag()));
                }
            });
        }
    }

    @NonNull
    @Override
    public HotelAdapter.ViewHolder onCreateViewHolder(@NonNull ViewGroup viewGroup,
int i) {
```

```
        View
view=LayoutInflater.from(viewGroup.getContext()).inflate(R.layout.row_hotel_item,viewG
roup,false);
        return new ViewHolder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull HotelAdapter.ViewHolder viewHolder, int i) {
        viewHolder.itemView.setTag(hotels.get(i));
        viewHolder.tvHotelName.setText(hotels.get(i).getName());
        viewHolder.tvHotelImage.setImageResource(hotels.get(i).getImage());

    }

    public void updateList(List<Hotel> hotelList){
        hotels=new ArrayList<>();
        hotels.addAll(hotelList);
        notifyDataSetChanged();
    }


    @Override
    public int getItemCount() {
        return hotels.size();
    }
}
```

## -Hotel Activity

```
package com.example.lonavalacityguide.hotel.view;

import android.app.ActionBar;
import android.app.SearchManager;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.support.v4.app.FragmentManager;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.Toolbar;
import android.view.View;
import android.widget.*;
import com.example.lonavalacityguide.ApplicationClass;
import com.example.lonavalacityguide.R;
import com.example.lonavalacityguide.hotel.adapter.HotelAdapter;
import com.example.lonavalacityguide.hotel.fragments.HotelDetailFragment;
import com.example.lonavalacityguide.hotel.fragments.HotelFragment;
import com.example.lonavalacityguide.hotel.model.Hotel;

import java.util.ArrayList;

public class HotelActivity extends AppCompatActivity implements
HotelAdapter.ItemClicked {

    TextView tvHotelName,tvContact,tvAddress,tvEmail,tvDescription;
    FragmentManager fragmentManager;
    HotelFragment hotelFragment;
    HotelDetailFragment hotelDetailFragment;
    Button btnNavigate;
```

```java
    RatingBar ratingBar;
    ImageSwitcher imageSwitcher;
    ImageButton btnNext,btnPrev;
    ArrayList<Hotel> hotels;
    private static final int[]
IMAGES={R.drawable.kumar,R.drawable.picadle,R.drawable.misty,R.drawable.della,R.drawab
le.fariyas};
    private int mPosition=0;



    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_hotel);
        Toolbar toolbar=findViewById(R.id.toolbar);
        setSupportActionBar(toolbar);
        toolbar.setTitle(R.string.app_name);

        hotels=new ArrayList<>();



        tvHotelName=findViewById(R.id.tvHotelDetailName);
        ratingBar=findViewById(R.id.ratingBar);
        tvAddress=findViewById(R.id.tvHotelAddress);
        tvContact=findViewById(R.id.tvHotelContact);
        tvEmail=findViewById(R.id.tvHotelEmail);
        tvDescription=findViewById(R.id.tvHotelDescription);
        btnNavigate=findViewById(R.id.btnNavigate);
        imageSwitcher=findViewById(R.id.imageSwitcher);
        btnNext=findViewById(R.id.btnNext);
        btnPrev=findViewById(R.id.btnPrev);



        fragmentManager=this.getSupportFragmentManager();

        hotelFragment= (HotelFragment)
fragmentManager.findFragmentById(R.id.hotelfrag);
        hotelDetailFragment= (HotelDetailFragment)
fragmentManager.findFragmentById(R.id.detailfrag);



        fragmentManager.beginTransaction()
                .show(hotelFragment)
                .hide(hotelDetailFragment)
                .commit();




    }

    @Override
    public void onItemClicked(final int index) {
        tvHotelName.setText(ApplicationClass.hotels.get(index).getName());

ratingBar.setRating(Float.valueOf(ApplicationClass.hotels.get(index).getRating()));
        tvContact.setText(ApplicationClass.hotels.get(index).getContact());
```

```java
        tvAddress.setText(ApplicationClass.hotels.get(index).getAddress());
        tvEmail.setText(ApplicationClass.hotels.get(index).getEmail());
        tvDescription.setText(ApplicationClass.hotels.get(index).getDescription());

        btnNavigate.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                startActivity(new
Intent(Intent.ACTION_VIEW,Uri.parse(ApplicationClass.hotels.get(index).getMapid())));
            }
        });

        tvContact.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                startActivity(new
Intent(Intent.ACTION_DIAL,Uri.parse("tel:"+ApplicationClass.hotels.get(index).getConta
ct())));
            }
        });

        tvEmail.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String q = ApplicationClass.hotels.get(index).getEmail();
                Intent intent = new Intent(Intent.ACTION_WEB_SEARCH );
                intent.putExtra(SearchManager.QUERY, q);
                startActivity(intent);
            }
        });

        imageSwitcher.setBackgroundResource(IMAGES[mPosition]);
        imageSwitcher.setFactory(new ViewSwitcher.ViewFactory() {
            @Override
            public View makeView() {
                ImageView imageView=new ImageView(getApplicationContext());
                imageView.setScaleType(ImageView.ScaleType.FIT_CENTER);
                imageView.setLayoutParams(new
ImageSwitcher.LayoutParams(ActionBar.LayoutParams.WRAP_CONTENT,ActionBar.LayoutParams.
WRAP_CONTENT));
                return imageView;
            }
        });

        imageSwitcher.setInAnimation(this, android.R.anim.slide_in_left);
        imageSwitcher.setOutAnimation(this, android.R.anim.slide_out_right);

        btnNext.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                if(mPosition<IMAGES.length-1){
                    mPosition+=1;
                    imageSwitcher.setBackgroundResource(IMAGES[mPosition]);

                }
                else{
                    Toast.makeText(HotelActivity.this,"No more
Images",Toast.LENGTH_SHORT).show();
                }

            }
        });
```

```java
        btnPrev.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                if(mPosition>0){
                    mPosition-=1;
                    imageSwitcher.setBackgroundResource(IMAGES[mPosition]);

                } else{
                    Toast.makeText(HotelActivity.this,"No more
Images",Toast.LENGTH_SHORT).show();
                }

            }
        });




        fragmentManager.beginTransaction()
                .hide(hotelFragment)
                .show(hotelDetailFragment)
                .commit();



    }
}
```

## -Hotel Fragment

```java
package com.example.lonavalacityguide.hotel.fragments;


import android.os.Bundle;
import android.support.annotation.Nullable;
import android.support.v4.app.Fragment;
import android.support.v7.widget.LinearLayoutManager;
import android.support.v7.widget.RecyclerView;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

import com.example.lonavalacityguide.R;
import com.example.lonavalacityguide.hotel.adapter.HotelAdapter;

import static com.example.lonavalacityguide.ApplicationClass.hotels;

/**
 * A simple {@link Fragment} subclass.
 */
public class HotelFragment extends Fragment {

    RecyclerView recyclerView;
    RecyclerView.Adapter adapter;
    RecyclerView.LayoutManager layoutManager;
    View view;
```

```java
    public HotelFragment() {
        // Required empty public constructor
    }


    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        view= inflater.inflate(R.layout.fragment_hotel, container, false);
        setHasOptionsMenu(true);


        return view;
    }

    @Override
    public void onActivityCreated(@Nullable Bundle savedInstanceState) {
        super.onActivityCreated(savedInstanceState);
        recyclerView=view.findViewById(R.id.rvHospital);

        recyclerView.setHasFixedSize(true);
        layoutManager=new LinearLayoutManager(this.getActivity());
        recyclerView.setLayoutManager(layoutManager);
        adapter=new HotelAdapter(this.getActivity(), hotels);
        recyclerView.setAdapter(adapter);
    }


}
```

## -Hotel Detail Fragment

```java
package com.example.lonavalacityguide.hotel.fragments;


import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

import com.example.lonavalacityguide.R;

/**
 * A simple {@link Fragment} subclass.
 */
public class HotelDetailFragment extends Fragment {


    public HotelDetailFragment() {
        // Required empty public constructor
    }


    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
```

```java
            return inflater.inflate(R.layout.fragment_hotel_detail, container, false);
    }

}
```

# -Hotel

```java
package com.example.lonavalacityguide.hotel.model;

public class Hotel {
    String name,contact,rating,email,address,description,mapid;
    int image;

    public Hotel(String name, String contact, String rating, String email, String
address, String description,String mapid,int image) {
        this.name = name;
        this.contact = contact;
        this.rating = rating;
        this.email = email;
        this.address = address;
        this.description = description;
        this.mapid=mapid;
        this.image=image;
    }

    public Hotel() {

    }

    public int getImage() {
        return image;
    }

    public void setImage(int image) {
        this.image = image;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getContact() {
        return contact;
    }

    public void setContact(String contact) {
        this.contact = contact;
    }

    public String getRating() {
        return rating;
    }

    public void setRating(String rating) {
        this.rating = rating;
    }
```

```java
    public String getEmail() {
        return email;
    }

    public void setEmail(String email) {
        this.email = email;
    }

    public String getAddress() {
        return address;
    }

    public void setAddress(String address) {
        this.address = address;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getMapid() {
        return mapid;
    }

    public void setMapid(String mapid) {
        this.mapid = mapid;
    }
}
```

## -Hotel Layout Files

Activity_hotel.xml file

Code-

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:orientation="vertical"
    tools:context=".hotel.view.HotelActivity">


    <android.support.v7.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?actionBarSize"
            android:layout_alignParentTop="true"
            android:background="@android:color/holo_green_dark" />

    <LinearLayout android:layout_width="match_parent"
android:layout_height="wrap_content"
```

```
                android:orientation="horizontal">

    <fragment
        android:id="@+id/hotelfrag"
        android:name="com.example.lonavalacityguide.hotel.fragments.HotelFragment"
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:layout_weight="1"
        tools:layout="@layout/fragment_hotel" />

    <fragment
        android:id="@+id/detailfrag"

android:name="com.example.lonavalacityguide.hotel.fragments.HotelDetailFragment"
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:layout_weight="1"
        tools:layout="@layout/fragment_hotel_detail" />
    </LinearLayout>
</LinearLayout>
```

## Layout-
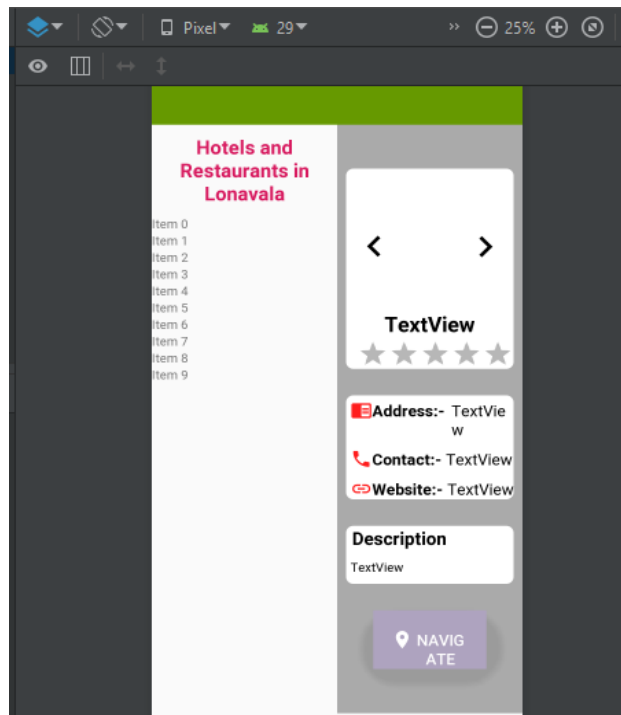
# 3.Login and Registration Activity

## -Data Base Helper

```java
package com.example.lonavalacityguide.login_registration;

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

import java.util.ArrayList;
import java.util.List;

public class DatabaseHelper extends SQLiteOpenHelper {

    // Database Version
    private static final int DATABASE_VERSION = 1;

    // Database Name
    private static final String DATABASE_NAME = "UserManager.db";

    public DatabaseHelper(Context context) {
        super(context, DATABASE_NAME, null, DATABASE_VERSION);
    }

    // User table name
    private static final String TABLE_USER = "user";

    // User Table Columns names
    private static final String COLUMN_USER_ID = "user_id";
    private static final String COLUMN_USER_NAME = "user_name";
    private static final String COLUMN_USER_EMAIL = "user_email";
    private static final String COLUMN_USER_CONTACT = "user_contact";
    private static final String COLUMN_USER_PASSWORD = "user_password";
    private static final String COLUMN_USER_CONFIRM_PASSWORD =
"user_confirm_password";


    private String CREATE_USER_TABLE = "CREATE TABLE " + TABLE_USER + "("
            + COLUMN_USER_ID + " INTEGER PRIMARY KEY AUTOINCREMENT," +
COLUMN_USER_NAME + " TEXT,"
            + COLUMN_USER_EMAIL + " TEXT,"+COLUMN_USER_CONTACT + " TEXT," +
COLUMN_USER_PASSWORD + " TEXT," + COLUMN_USER_CONFIRM_PASSWORD + " TEXT"+")";

    // drop table sql query
    private String DROP_USER_TABLE = "DROP TABLE IF EXISTS " + TABLE_USER;


    @Override
    public void onCreate(SQLiteDatabase db) {
        db.execSQL(CREATE_USER_TABLE);
    }

    @Override
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {

        db.execSQL(DROP_USER_TABLE);
        onCreate(db);
```

```java
    }

    public void addUser(User user) {
        SQLiteDatabase db = this.getWritableDatabase();

        ContentValues values = new ContentValues();
        values.put(COLUMN_USER_NAME, user.getName());
        values.put(COLUMN_USER_EMAIL, user.getEmail());
        values.put(COLUMN_USER_CONTACT,user.getContact());
        values.put(COLUMN_USER_PASSWORD, user.getPassword());

        // Inserting Row
        db.insert(TABLE_USER, null, values);
        db.close();
    }


    public List<User> getAllUser() {
        // array of columns to fetch
        String[] columns = {
                COLUMN_USER_ID,
                COLUMN_USER_EMAIL,
                COLUMN_USER_NAME,
                COLUMN_USER_PASSWORD,
                COLUMN_USER_CONTACT
        };
        // sorting orders
        String sortOrder =
                COLUMN_USER_NAME + " ASC";
        List<User> userList = new ArrayList<User>();

        SQLiteDatabase db = this.getReadableDatabase();

        Cursor cursor = db.query(TABLE_USER, //Table to query
                columns,    //columns to return
                null,        //columns for the WHERE clause
                null,         //The values for the WHERE clause
                null,        //group the rows
                null,        //filter by row groups
                sortOrder); //The sort order


        if (cursor.moveToFirst()) {
            do {
                User user = new User();

user.setId(Integer.parseInt(cursor.getString(cursor.getColumnIndex(COLUMN_USER_ID))));

user.setName(cursor.getString(cursor.getColumnIndex(COLUMN_USER_NAME)));

user.setEmail(cursor.getString(cursor.getColumnIndex(COLUMN_USER_EMAIL)));

user.setPassword(cursor.getString(cursor.getColumnIndex(COLUMN_USER_PASSWORD)));

user.setContact(cursor.getString(cursor.getColumnIndex(COLUMN_USER_CONTACT)));
                userList.add(user);
            } while (cursor.moveToNext());
        }
        cursor.close();
        db.close();
        return userList;
    }
```

```java
public void updateUser(User user) {
    SQLiteDatabase db = this.getWritableDatabase();

    ContentValues values = new ContentValues();
    values.put(COLUMN_USER_NAME, user.getName());
    values.put(COLUMN_USER_EMAIL, user.getEmail());
    values.put(COLUMN_USER_CONTACT,user.getContact());
    values.put(COLUMN_USER_PASSWORD, user.getPassword());

    // updating row
    db.update(TABLE_USER, values, COLUMN_USER_ID + " = ?",
            new String[]{String.valueOf(user.getId())});
    db.close();
}

public void deleteUser(User user) {
    SQLiteDatabase db = this.getWritableDatabase();
    // delete user record by id
    db.delete(TABLE_USER, COLUMN_USER_ID + " = ?",
            new String[]{String.valueOf(user.getId())});
    db.close();
}

public boolean checkUser(String email) {

    // array of columns to fetch
    String[] columns = {
            COLUMN_USER_ID
    };
    SQLiteDatabase db = this.getReadableDatabase();

    // selection criteria
    String selection = COLUMN_USER_EMAIL + " = ?";

    // selection argument
    String[] selectionArgs = {email};

    Cursor cursor = db.query(TABLE_USER, //Table to query
            columns,                    //columns to return
            selection,                  //columns for the WHERE clause
            selectionArgs,              //The values for the WHERE clause
            null,                       //group the rows
            null,                       //filter by row groups
            null);                      //The sort order
    int cursorCount = cursor.getCount();
    cursor.close();
    db.close();

    if (cursorCount > 0) {
        return true;
    }

    return false;
}

public boolean checkUser(String email, String password) {

    // array of columns to fetch
    String[] columns = {
            COLUMN_USER_ID
    };
    SQLiteDatabase db = this.getReadableDatabase();
```

```
        // selection criteria
        String selection = COLUMN_USER_EMAIL + " = ?" + " AND " + COLUMN_USER_PASSWORD
+ " = ?";

        // selection arguments
        String[] selectionArgs = {email, password};
        Cursor cursor = db.query(TABLE_USER, //Table to query
                columns,                     //columns to return
                selection,                   //columns for the WHERE clause
                selectionArgs,               //The values for the WHERE clause
                null,                        //group the rows
                null,                        //filter by row groups
                null);                       //The sort order

        int cursorCount = cursor.getCount();

        cursor.close();
        db.close();
        if (cursorCount > 0) {
            return true;
        }

        return false;
    }


}
```

## -Login Activity

```java
package com.example.lonavalacityguide.login_registration;

import android.content.Intent;
import android.os.Bundle;
import android.support.design.widget.TextInputEditText;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;

import com.example.lonavalacityguide.MainActivity;
import com.example.lonavalacityguide.R;

public class LoginActivity extends AppCompatActivity {
    TextInputEditText username,password;
    TextView txtRegister;
    private DatabaseHelper databaseHelper;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);
        databaseHelper = new DatabaseHelper(getApplicationContext());

        username=findViewById(R.id.username);
        password=findViewById(R.id.password);
        txtRegister=findViewById(R.id.txtRegister);

        txtRegister.setOnClickListener(new View.OnClickListener() {
            @Override
```

```java
            public void onClick(View view) {
                startActivity(new Intent(LoginActivity.this,Registration.class));
            }
        });
    }

    public void login(View view) {
        String user=username.getText().toString().trim();
        String pass=password.getText().toString().trim();
        if (user.equals("")) {
            username.setError("please enter email address");
            username.requestFocus();
        }
        else if (!android.util.Patterns.EMAIL_ADDRESS.matcher(user).matches()) {
            username.setError("please enter valid email address");
            username.requestFocus();
        }
        if (pass.equals("")) {
            password.setError("please enter password");
            password.requestFocus();
        }
        else if (pass.length() < 6) {
            password.setError("password minimum contain 6 character");
            password.requestFocus();
        }
        if (!user.equals("") &&
                pass.length() >= 6 &&
                !pass.equals("")
                && android.util.Patterns.EMAIL_ADDRESS.matcher(user).matches()) {
            // do  your action
            if(databaseHelper.checkUser(user,pass)){
                clearFields();


                startActivity(new Intent(LoginActivity.this, MainActivity.class));
            }
            else{
                Toast.makeText(getApplicationContext(),"Incorrect credentials! Please
enter correct data",Toast.LENGTH_SHORT).show();
            }


        }

    }

    private void clearFields() {
        username.setText(null);
        password.setText(null);
    }
}
```

-Registration

```java
package com.example.lonavalacityguide.login_registration;

import android.content.Intent;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
```

```java
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import com.example.lonavalacityguide.R;

public class Registration extends AppCompatActivity {
    EditText etName,etContact,etEmail,etPassword,etConfirmPassword;
    Button btnRegister;
    private DatabaseHelper db;
    private User user;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_registration);
        db=new DatabaseHelper(this.getApplicationContext());
        user=new User();

        etName=findViewById(R.id.etName);
        etContact=findViewById(R.id.etContact);
        etEmail=findViewById(R.id.etEmail);
        etPassword=findViewById(R.id.etPassword);
        etConfirmPassword=findViewById(R.id.etConfirmPassword);
        btnRegister=findViewById(R.id.btnRegister);

        btnRegister.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String name=etName.getText().toString();
                String contact=etContact.getText().toString();
                String email=etEmail.getText().toString();
                String password=etPassword.getText().toString();
                String confirmPassword=etConfirmPassword.getText().toString();

                if (etEmail.getText().toString().equals("")) {
                    etEmail.setError("Please enter email address");
                    etEmail.requestFocus();
                }
                else if
(!android.util.Patterns.EMAIL_ADDRESS.matcher(etEmail.getText().toString()).matches())
{
                    etEmail.setError("Please enter valid email address");
                    etEmail.requestFocus();
                }
                if (etPassword.getText().toString().equals("")) {
                    etPassword.setError("Please enter password");
                    etPassword.requestFocus();
                }
                else if (etPassword.getText().toString().trim().length() < 6) {
                    etPassword.setError("Password should have minimum 6 character");
                    etPassword.requestFocus();
                }
                if (etConfirmPassword.getText().toString().equals("")) {
                    etConfirmPassword.setError("Please enter password");
                    etConfirmPassword.requestFocus();
                }
                else if (etConfirmPassword.getText().toString().trim().length() < 6) {
                    etConfirmPassword.setError("Password should have minimum 6
character");
                    etConfirmPassword.requestFocus();
                }
                else
```

```java
if(etConfirmPassword.getText().toString()!=etPassword.getText().toString())
                {
                        etConfirmPassword.setError("Password should match!");
                        etConfirmPassword.requestFocus();
                }
                if (!etEmail.getText().toString().equals("") &&
                        etPassword.getText().toString().length() >= 6 &&
                        !etPassword.getText().toString().equals("")
                        && etConfirmPassword.getText().toString().length() >= 6 &&
                        !etConfirmPassword.equals("")
                        // && etPassword.getText().toString() ==
etConfirmPassword.getText().toString()
                        &&
android.util.Patterns.EMAIL_ADDRESS.matcher(etEmail.getText().toString()).matches()) {
                        // do  your action

if(!name.equals("")&&!contact.equals("")&&!email.equals("")&&!password.equals("")&&!co
nfirmPassword.equals("")){

                        if(!db.checkUser(email.trim())){
                                user.setName(name.trim());
                                user.setEmail(email.trim());
                                user.setPassword(password.trim());
                                user.setContact(contact);

                                db.addUser(user);
                                Toast.makeText(getApplicationContext(),"Registration
Successful!",Toast.LENGTH_SHORT).show();
                                clearAllFields();
                                startActivity(new
Intent(Registration.this,LoginActivity.class));
                        }else{
                                Toast.makeText(getApplicationContext(),"User is already
registered!",Toast.LENGTH_SHORT).show();
                        }
                }
                else{
                        Toast.makeText(getApplicationContext(),"Fields caannot be
empty", Toast.LENGTH_SHORT).show();

                }

                }

        }
        });

    }

    private void clearAllFields() {
        etName.setText(null);
        etContact.setText(null);
        etEmail.setText(null);
        etPassword.setText(null);
        etConfirmPassword.setText(null);
    }

}
```

-User

```java
package com.example.lonavalacityguide.login_registration;


public class User {

    private int id;
    private String name;
    private String contact;
    private String email;
    private String password;
    private String confirmPassword;

    public String getContact() {
        return contact;
    }

    public void setContact(String contact) {
        this.contact = contact;
    }

    public String getConfirmPassword() {
        return confirmPassword;
    }

    public void setConfirmPassword(String confirmPassword) {
        this.confirmPassword = confirmPassword;
    }

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getEmail() {
        return email;
    }

    public void setEmail(String email) {
        this.email = email;
    }

    public String getPassword() {
        return password;
    }

    public void setPassword(String password) {
        this.password = password;
    }
}
```

## Login Layout files-

## Code-

```xml
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
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:background="@drawable/lonavala"
    tools:context=".login_registration.LoginActivity">

    <android.support.v7.widget.CardView
        android:id="@+id/cardView"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginStart="32dp"
        android:layout_marginLeft="32dp"
        android:layout_marginTop="32dp"
        android:layout_marginEnd="32dp"
        android:layout_marginRight="32dp"
        android:layout_marginBottom="32dp"
        android:paddingLeft="5dp"
        android:paddingTop="5dp"
        android:paddingRight="5dp"
        android:paddingBottom="5dp"
        app:cardCornerRadius="10dp"
        app:cardElevation="10dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:orientation="vertical"
            android:padding="30dp">

            <TextView
                android:id="@+id/textView11"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_gravity="center"
                android:layout_marginStart="8dp"
                android:layout_marginLeft="8dp"
                android:layout_marginTop="8dp"
                android:layout_marginEnd="8dp"
                android:layout_marginRight="8dp"
                android:layout_marginBottom="32dp"
                android:text="Login "
                android:textAppearance="@style/TextAppearance.AppCompat.Medium"
                android:textColor="#36a1f9"
                android:textSize="30sp"
                android:textStyle="bold"/>

            <android.support.design.widget.TextInputLayout
                android:id="@+id/textInputLayoutEmail"
                android:layout_width="match_parent"
```

```xml
                android:layout_height="60dp"
                android:textColorHint="#1565C0"
                app:boxBackgroundMode="outline">

                <android.support.design.widget.TextInputEditText
                    android:id="@+id/username"
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:layout_marginTop="10dp"
                    android:hint="Enter Email-Id"
                    android:textColor="#0277BD"
                    android:textColorHighlight="#0277BD"
                    android:textColorHint="#0277BD"
                    android:textColorLink="#0277BD" />
            </android.support.design.widget.TextInputLayout>

            <android.support.design.widget.TextInputLayout
                android:id="@+id/textInputLayoutPassword"
                android:layout_width="match_parent"
                android:layout_height="60dp"
                android:layout_marginTop="10dp"
                android:textColorHint="#0277BD"
                app:boxBackgroundMode="outline">

                <android.support.design.widget.TextInputEditText
                    android:id="@+id/password"
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:hint="Enter password"
                    android:inputType="textPassword"
                    android:password="true"
                    android:textColor="#0277BD"
                    android:textColorHighlight="#AD1457"
                    android:textColorLink="#AD1457" />
            </android.support.design.widget.TextInputLayout>

            <Button
                android:id="@+id/button"
                style="@style/Widget.AppCompat.Button"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_gravity="center"
                android:layout_marginTop="20dp"
                android:layout_marginBottom="5dp"
                android:background="@drawable/oval"
                android:onClick="login"
                android:paddingLeft="30dp"
                android:paddingRight="30dp"
                android:text="Login"
                android:textColor="#FFFFFF"
                android:textSize="18sp"
                android:textStyle="bold" />
            <LinearLayout
                android:orientation="horizontal"
                android:layout_width="match_parent"
                android:layout_height="match_parent">
            <TextView
                    android:text="Not registered yet?"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
android:id="@+id/textView12" android:layout_weight="1"/>
            <TextView
                    android:text="Create an account"
```

```
                        android:layout_width="wrap_content"
                        android:layout_height="wrap_content"
tools:layout_editor_absoluteY="0dp"
                        tools:layout_editor_absoluteX="0dp"
                        android:id="@+id/txtRegister" android:layout_weight="1"
                        android:textColor="@color/design_default_color_primary"/>
            </LinearLayout>

        </LinearLayout>


    </android.support.v7.widget.CardView>
</android.support.constraint.ConstraintLayout>
```

Layout-
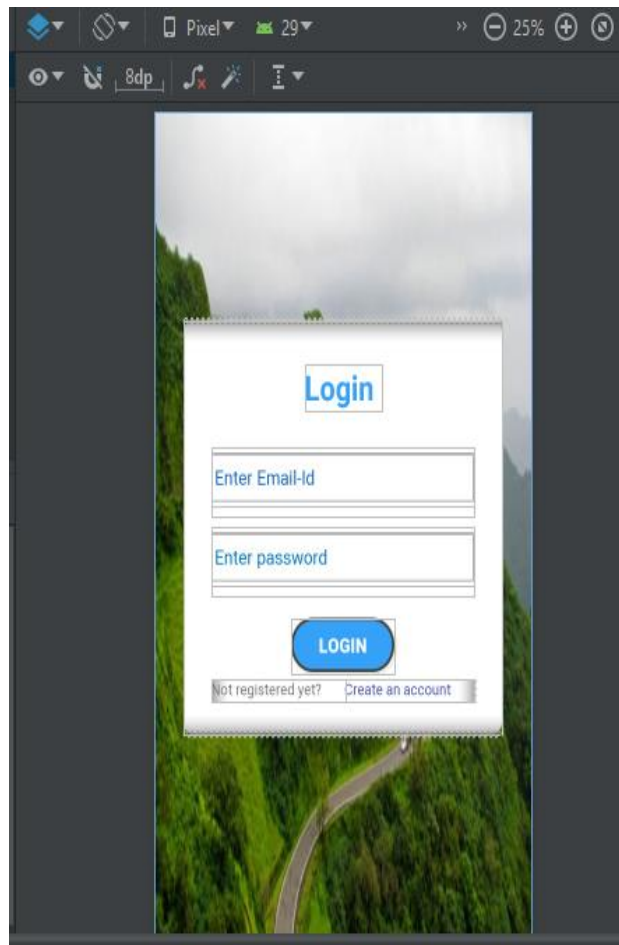
## Registration Layout files

## Code-

```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=".login_registration.Registration"
              android:background="@drawable/lonavala">

    <android.support.v7.widget.CardView
            android:layout_width="match_parent"
            android:layout_height="wrap_content" android:layout_marginLeft="30dp"
android:layout_marginRight="30dp"
            android:layout_marginTop="80dp" app:cardElevation="10dp"
app:cardCornerRadius="10dp"
            android:layout_marginBottom="80dp">


        <LinearLayout xmlns:app="http://schemas.android.com/apk/res-auto"
                      android:layout_width="match_parent"
                      android:layout_height="wrap_content"
                      android:orientation="vertical">


            <TextView
                    android:text="User Registration"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content" android:id="@+id/textView14"
                    android:textAppearance="@style/TextAppearance.AppCompat.Large"
                    android:textColor="#36a1f9" android:textStyle="bold"
                    android:layout_gravity="center" android:layout_marginTop="20dp"
android:layout_marginBottom="10dp"/>

            <EditText
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:inputType="textPersonName"
                    android:ems="10"
                    android:id="@+id/etName" android:layout_marginLeft="20dp"
android:layout_marginRight="20dp"
                    android:layout_marginTop="20dp" android:layout_marginBottom="5dp"
android:hint="Enter your name"
                    android:textColor="#36a1f9" android:textColorHint="#36a1f9"/>

            <EditText
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:ems="10"
                    android:id="@+id/etContact" android:layout_marginLeft="20dp"
android:layout_marginRight="20dp"
                    android:layout_marginBottom="5dp" android:layout_marginTop="5dp"
android:hint="Enter Contact"
                    android:textColor="#36a1f9" android:textColorHint="#36a1f9"
android:inputType="phone"
                    android:maxLength="10" android:phoneNumber="true"/>
```

```xml
        <EditText
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:ems="10"
                android:id="@+id/etEmail" android:layout_marginLeft="20dp"
android:layout_marginRight="20dp"
                android:layout_marginBottom="5dp" android:layout_marginTop="5dp"
android:hint="Enter Email"
                android:textColor="#36a1f9" android:textColorHint="#36a1f9"
                android:inputType="textWebEmailAddress"/>


        <EditText
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:ems="10"
                android:id="@+id/etPassword" android:layout_marginLeft="20dp"
android:layout_marginRight="20dp"
                android:layout_marginBottom="5dp" android:layout_marginTop="5dp"
android:hint="Enter Password"
                android:textColor="#36a1f9" android:textColorHint="#36a1f9"
                android:inputType="textPassword" android:password="true"


        />
        <EditText
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:ems="10"
                android:id="@+id/etConfirmPassword"
android:layout_marginLeft="20dp"
                android:layout_marginRight="20dp"
                android:layout_marginBottom="5dp" android:layout_marginTop="5dp"
android:hint="Confirm Password"
                android:textColor="#36a1f9" android:textColorHint="#36a1f9"
                android:inputType="textPassword"
                 android:password="true"/>
        <Button
                android:text="Register"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content" android:id="@+id/btnRegister"
                android:background="@drawable/oval"
                android:paddingLeft="40dp" android:paddingRight="40dp"
android:textColor="#FFFFFF"
                android:textSize="18sp" android:textStyle="bold"
android:layout_marginTop="20dp"
                android:layout_marginBottom="10dp"
android:layout_gravity="center"/>

        <android.support.v7.widget.AppCompatTextView
            android:id="@+id/appCompatTextViewLoginLink"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="15dp"
            android:layout_marginBottom="15dp"
            android:gravity="center"
            android:text="Already a member? Login"
            android:textSize="16dp" />


    </LinearLayout>
</android.support.v7.widget.CardView>
</LinearLayout>
```

Layout-
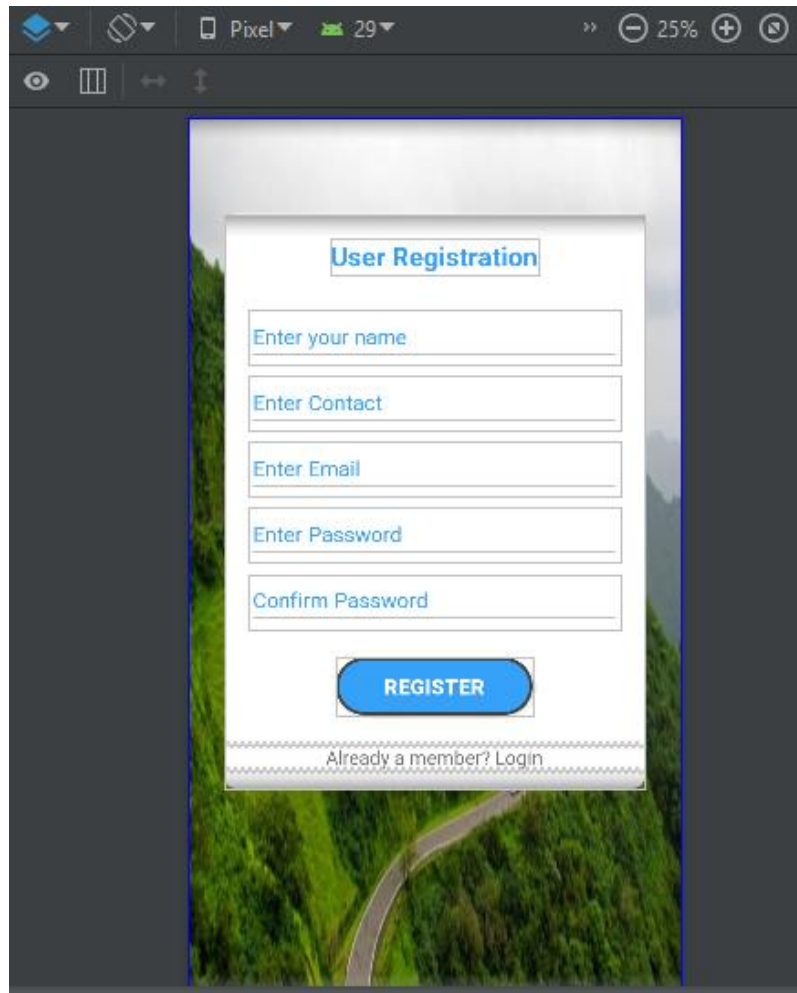


# 4.Main Activity

```
package com.example.lonavalacityguide;

import android.content.Intent;
import android.os.Bundle;
import android.support.design.widget.FloatingActionButton;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.CardView;
import android.view.View;

import com.example.lonavalacityguide.daily_planner.MainTaskActivity;
import com.example.lonavalacityguide.hospital.view.hospitalActivity;
import com.example.lonavalacityguide.hotel.view.HotelActivity;
import com.example.lonavalacityguide.place.view.PlacesActivity;
```

```java
import com.example.lonavalacityguide.shopping.view.ShoppingActivity;

public class MainActivity extends AppCompatActivity  {

    CardView cvHotels,cvPlaces,cvHospitals,cvShopping,cvTheatre;
    FloatingActionButton fabDailyPlanner;

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

        cvHospitals=findViewById(R.id.cvHospitals);
        cvHotels=findViewById(R.id.cvHotel);
        cvPlaces=findViewById(R.id.cvPlaces);
        cvShopping=findViewById(R.id.cvShopping);
        fabDailyPlanner=findViewById(R.id.btnFav);

        fabDailyPlanner.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new Intent(MainActivity.this, MainTaskActivity.class));
            }
        });



        cvShopping.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                startActivity(new Intent(MainActivity.this,ShoppingActivity.class));

            }
        });

        cvHotels.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {

                startActivity(new Intent(MainActivity.this, HotelActivity.class));

            }
        });

        cvPlaces.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                startActivity(new Intent(MainActivity.this, PlacesActivity.class));

            }
        });

        cvHospitals.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                startActivity(new Intent(MainActivity.this, hospitalActivity.class));

            }
        });

    }
```

# ⧉Steps to Run the Project
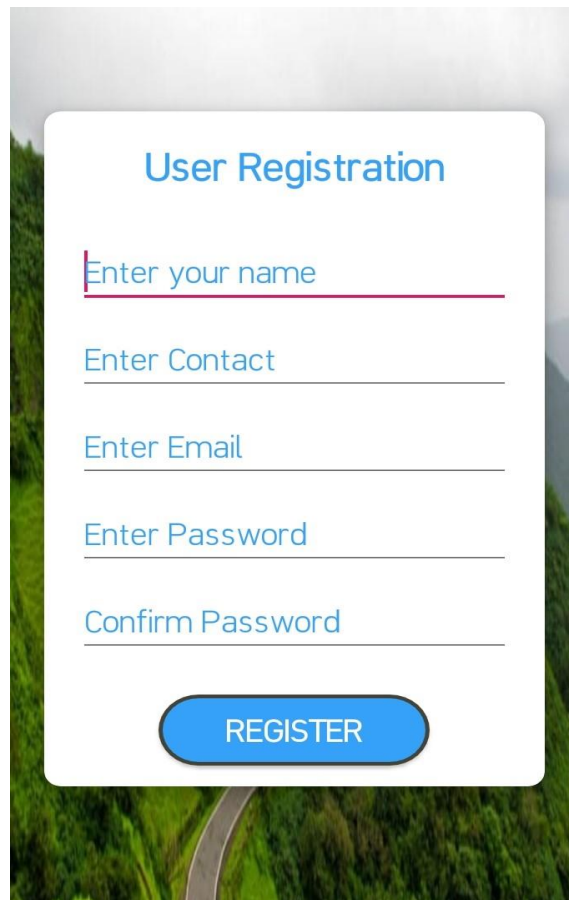
1.Open the application- **Lonavala City Guide.**



2.The **Login page** will appear.
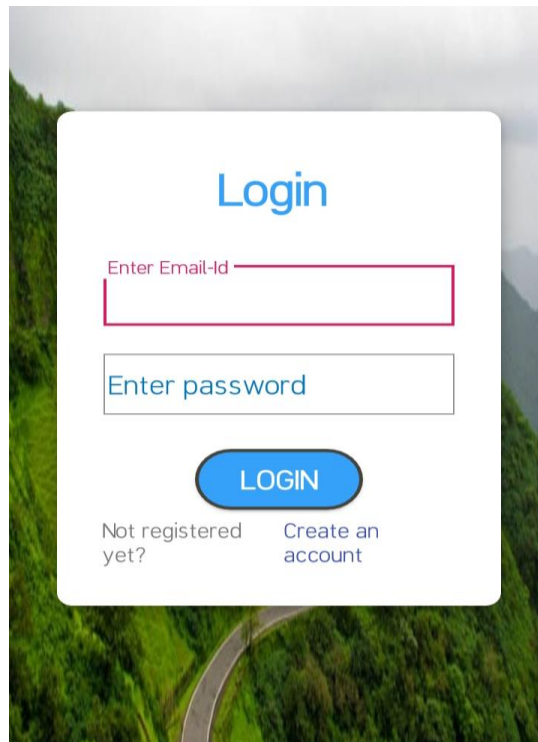
i.) If you have not created an account, you need to create one by clicking on the link "**Create an Account**" to the right corner of the login page.

ii.) If registration process is done, Login in to the app by entering your email-id and password in the respective dialogue boxes.

3. After Login, the user will be directed to the main page of the application. Five modules are namely- Hotels, Places, Hospitals, PassTime and To-Do-List will appear. The user may then select whichever module in accordance to the information he/she wants.



Welcome to Lonavala City Guide App

Hotels    Places

Hospitals    PassTime
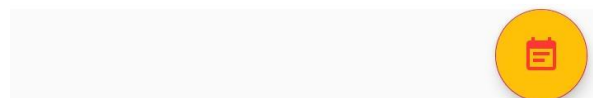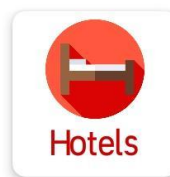
4. The "**Hotels**" module will display a list of "**Hotels and Restaurants in Lonavala**".

    i.) On clicking on the Hotel name: Its **Description, Rating, Address, Contact number, Website**. Also you can navigate the location of the hotel on google maps by clicking on the "**NAVIGATE**" button at bottom center of the page.
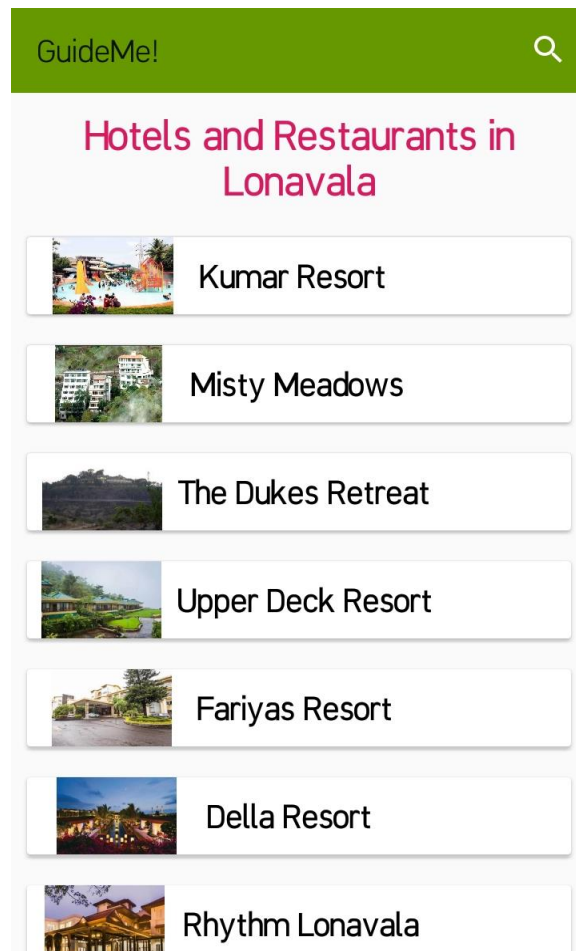
5. The "**Places**" module will display a list of "**Places to visit in Lonavala**" and "Find trains" button.

    i.) On clicking on the Places name: Its **Description, Rating, Address, Contact number, Website**. Also you can navigate the location of the places on google maps by clicking on the "**NAVIGATE**" button at bottom center of the page.

    ii.) On clicking on the **Find trains button**: it will direct the page to the official website of Indian Railways "**erail.in**".

Places to visit in Lonavala

- Lions Point
- Bhushi Dam
- Tigers Leap
- Rajmachi Point
- Wax Museum
- Lonavala Lake
- Narayani Dham
- Karla Devi Temple
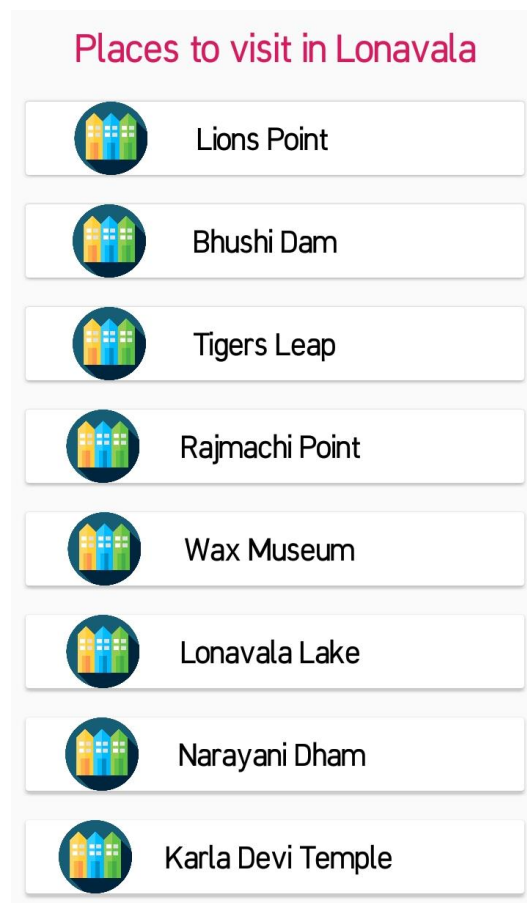
6. The "**PassTime**" module will display a list of "places where you can shop and watch movies".

    i.) On clicking on the **Mall/Theatre** name: its **Description, Rating, Address, Contact number and Website** will be displayed. Also you can navigate the location of the mall/theatre on google maps by clicking on the "**NAVIGATE**" button at bottom center of the page.

Shopping Places to visit in Lonavala

Triose mall

Lonavala Square

Rajasthan Emporium

A1-Chikki

Fish World

Mapro Garden
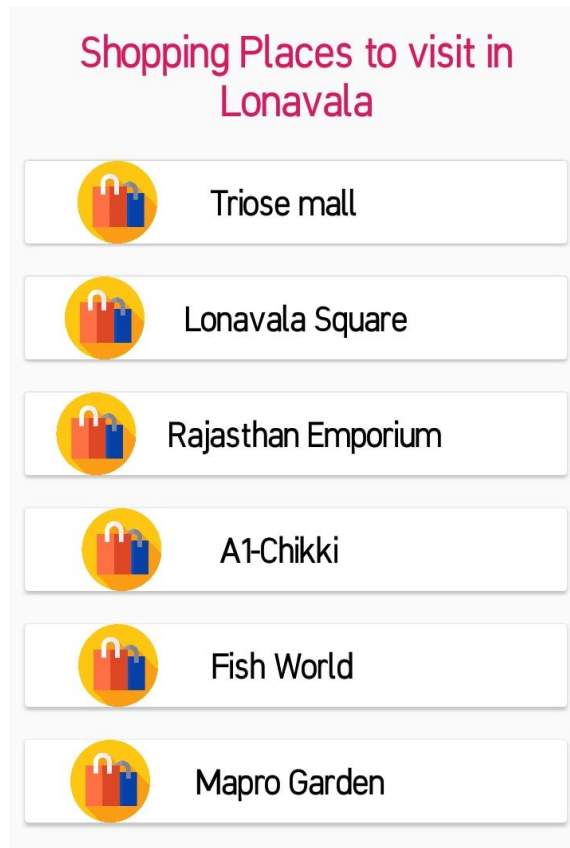
7. The "**Hospitals**" module will display a list of "Hospitals a tourist can visit in case of emergency".
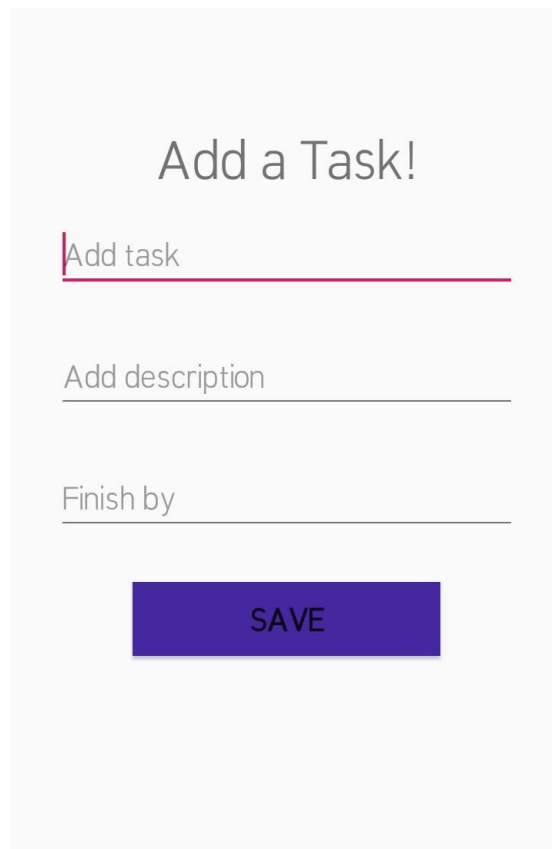
i.) On clicking on the **Hospitals** name: its **Description, Rating, Address, Contact number and Website** will be displayed. Also you can navigate the location of the Hospital on google maps by clicking on the "**NAVIGATE**" button at bottom center of the page in case of emergency.

8. The "**To-Do-List**" module on the right corner of the main page will display "**A Daily Planner List**".

   i.) Here you can "**Add**" the number of tasks you want to do by clicking on the "**+**" button. It will direct you to other page where **Task Name, Description and Finish date** about the task will be taken. Once done, you can save the task and go back to the "**Daily Planner List**" where number of tasks will be displayed.

   ii.) On clicking on any of the tasks, you can **update the task**, **delete the task** and mark as finished if done and it will display the task status "**completed**" above the task on "**Daily Planner List**"

## Add a Task!

Add task

Add description

Finish by

SAVE

# 🍱 Screenshots

- ## Screenshots of the Lonavala City Guide-
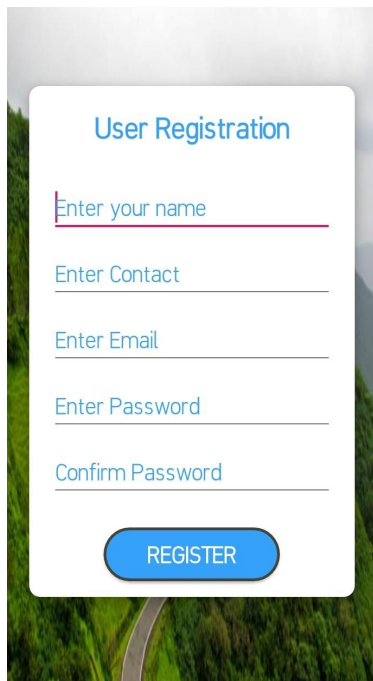
## 1.Application Icon-



## 2.Login Activity Page-
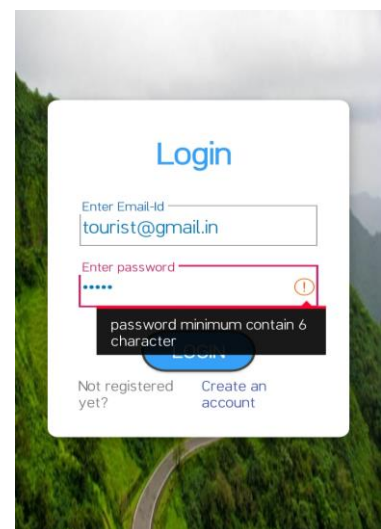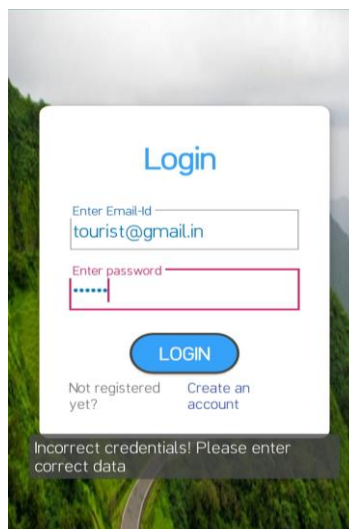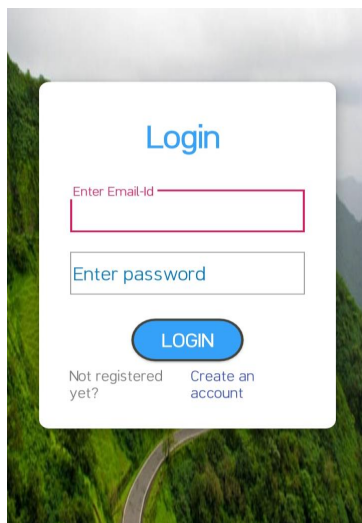
# 3.Registration Page-



**User Registration**
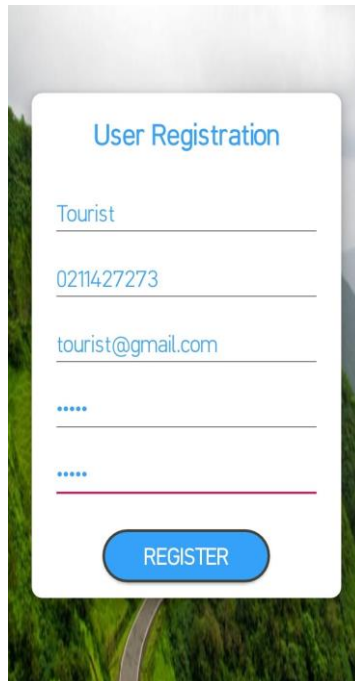
Enter your name

Enter Contact

Enter Email

Enter Password

Confirm Password

REGISTER



**User Registration**
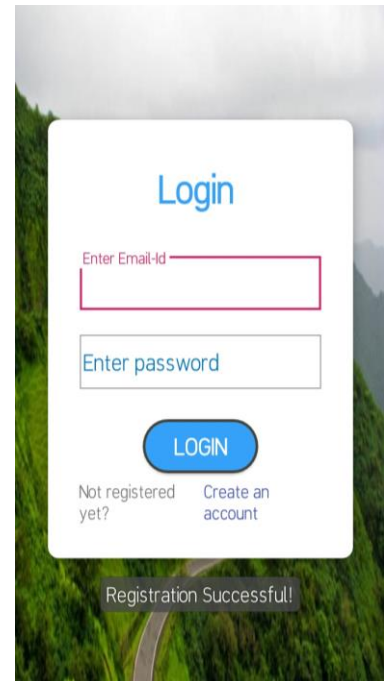
Tourist

0211427273
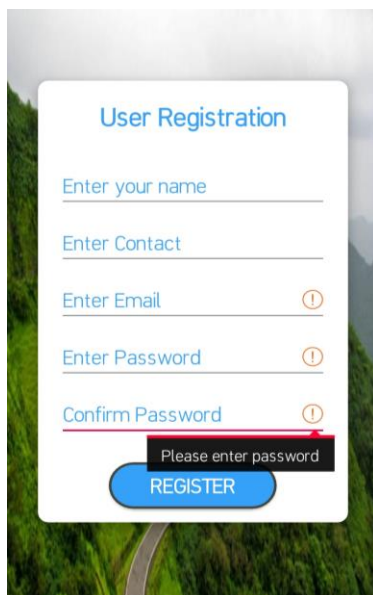
tourist@gmail.com

•••••

•••••

REGISTER



**Login**

Enter Email-Id

Enter password

LOGIN

Not registered yet?    Create an account

Registration Successful!



**User Registration**

Enter your name

Enter Contact
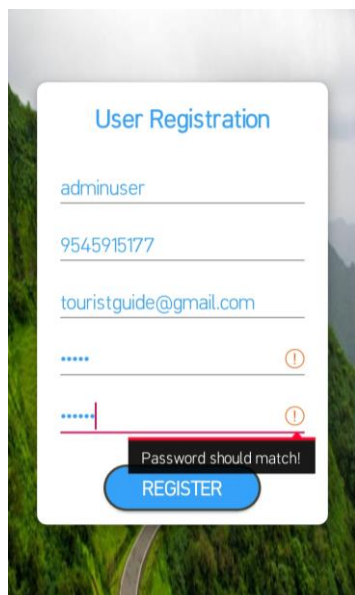
Enter Email            ⊙

Enter Password         ⊙

Confirm Password       ⊙

Please enter password

REGISTER



**User Registration**

adminuser

9545915177
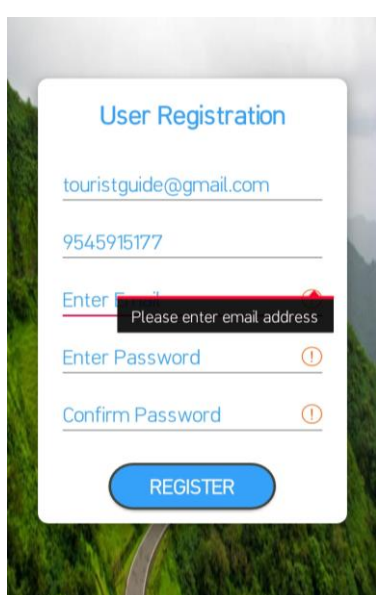
touristguide@gmail.com

•••••                  ⊙

••••••                 ⊙

Password should match!

REGISTER



**User Registration**

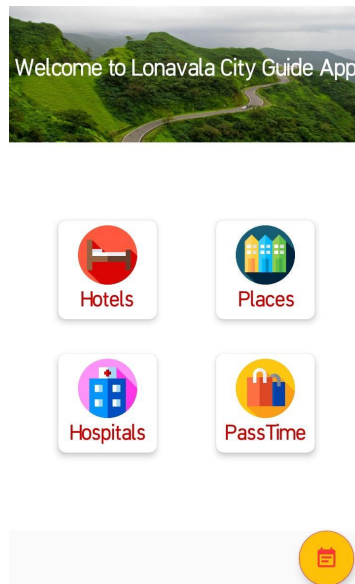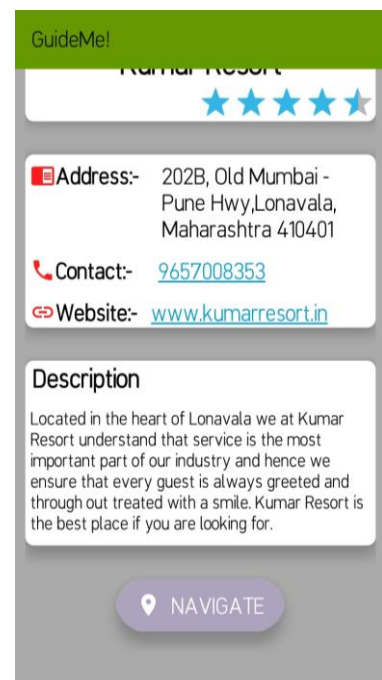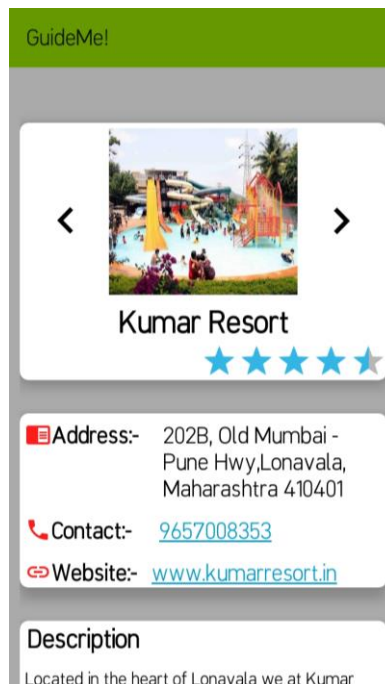touristguide@gmail.com

9545915177

Enter Email

Please enter email address

Enter Password         ⊙

Confirm Password       ⊙

REGISTER

## 4. Main Page after Login-



Welcome to Lonavala City Guide App

Hotels

Places

Hospitals

PassTime

## 5. Hotels Module-



GuideMe!

**Hotels and Restaurants in Lonavala**

Kumar Resort

Misty Meadows

The Dukes Retreat

Upper Deck Resort

Fariyas Resort

Della Resort

Rhythm Lonavala

GuideMe!

**Kumar Resort**

★ ★ ★ ★ ★

Address:- 202B, Old Mumbai - Pune Hwy,Lonavala, Maharashtra 410401

Contact:- 9657008353

Website:- www.kumarresort.in

Description

Located in the heart of Lonavala we at Kumar

GuideMe!

Kumar Resort

★ ★ ★ ★ ★

Address:- 202B, Old Mumbai - Pune Hwy,Lonavala, Maharashtra 410401

Contact:- 9657008353

Website:- www.kumarresort.in

Description

Located in the heart of Lonavala we at Kumar Resort understand that service is the most important part of our industry and hence we ensure that every guest is always greeted and through out treated with a smile. Kumar Resort is the best place if you are looking for.
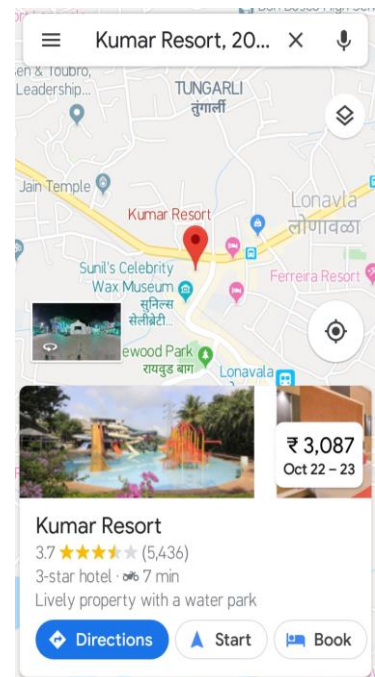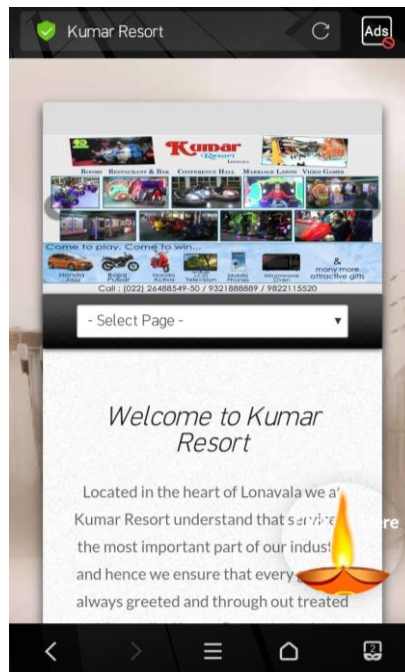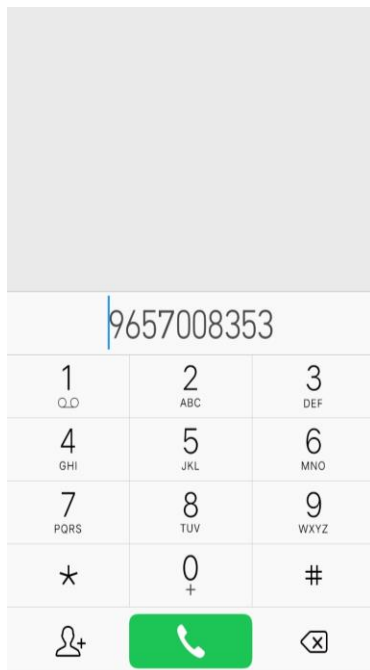
NAVIGATE

After clicking on the contact a direct access to the dial-pad, also on clicking the Navigate button a direct access to google map is provided, adding to this on clicking the website the page will redirect to the official site of the Hotel we are in search off.

# 6.Places Module-



**Places to visit in Lonavala**

- Lions Point
- Bhushi Dam
- Tigers Leap
- Rajmachi Point
- Wax Museum
- Lonavala Lake
- Narayani Dham
- Karla Devi Temple

**Places to visit in Lonavala**

- Narayani Dham
- Karla Devi Temple
- Visapur Fort
- Lohagad Fort
- Amrutanjan Point
- Kune Falls
- Pawana Lake
- Tungarli Dam

## Lions Point

Rating : 4.8

**Address:-** Lonavala,Sahara
**Contact:-** Lonavala Tourism
**Website:-** www.justdail.com

### Description

At a distance of 12 km from Lonavala Railway Station, Lion's Point is a vantage point located midway between Bhushi Dam and Aamby valley in Lonavala. It is one of the popular viewpoints in Lonavala and also among the must visit places in Lonavala.

## Lions Point

Rating : 4.8

**Address:-** Lonavala,Sahara
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### Description

At a distance of 12 km from Lonavala Railway Station, Lion's Point is a vantage point located midway between Bhushi Dam and Aamby valley in Lonavala. It is one of the popular viewpoints in Lonavala and also among the must visit places in Lonavala.
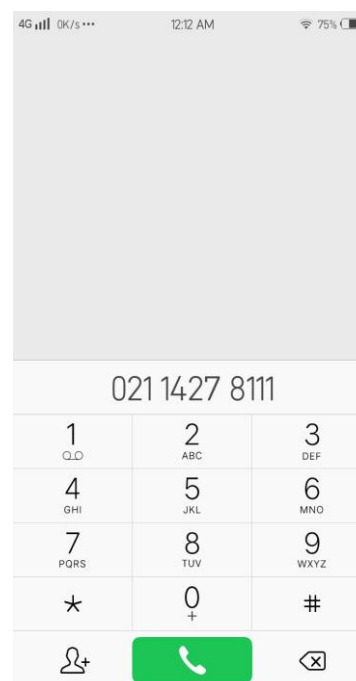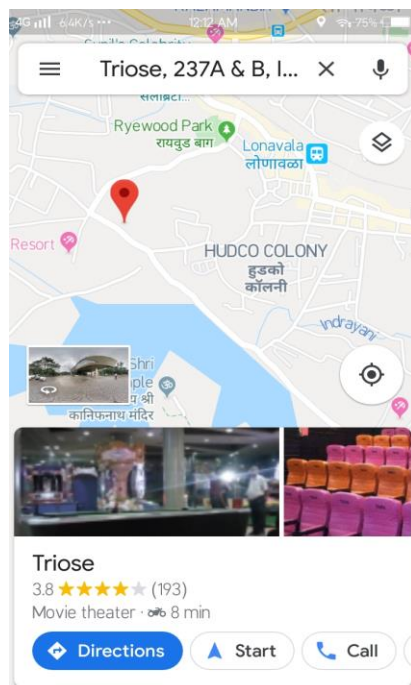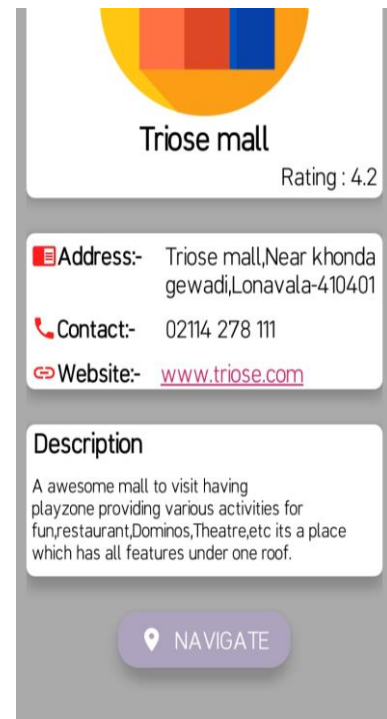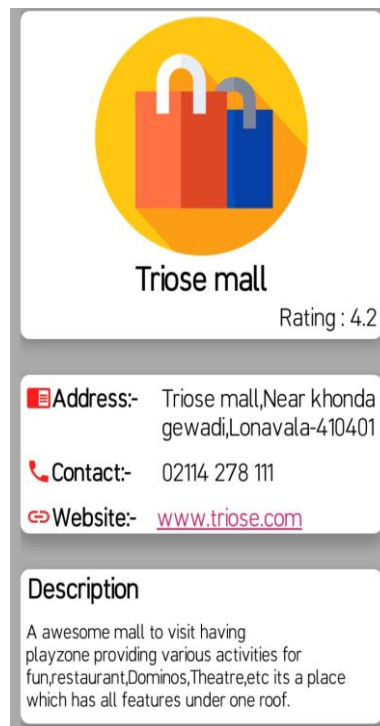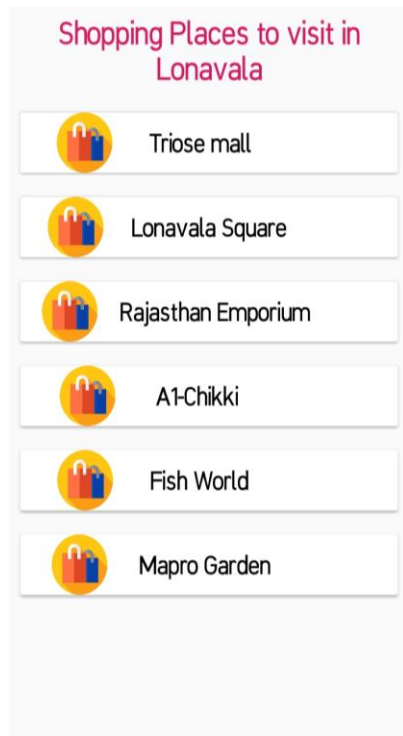
**NAVIGATE**

Lion Point, Hudco...

**Lion Point**
Hudco Colony, Lonavla, Maharashtra 410401 ·

Directions  Start  Save

# 7.PassTime Module-



Shopping Places to visit in Lonavala
- Triose mall
- Lonavala Square
- Rajasthan Emporium
- A1-Chikki
- Fish World
- Mapro Garden



Triose mall
Rating : 4.2

Address:- Triose mall,Near khonda gewadi,Lonavala-410401
Contact:- 02114 278 111
Website:- www.triose.com

Description

A awesome mall to visit having playzone providing various activities for fun,restaurant,Dominos,Theatre,etc its a place which has all features under one roof.



Triose mall
Rating : 4.2

Address:- Triose mall,Near khonda gewadi,Lonavala-410401
Contact:- 02114 278 111
Website:- www.triose.com

Description

A awesome mall to visit having playzone providing various activities for fun,restaurant,Dominos,Theatre,etc its a place which has all features under one roof.

NAVIGATE



Triose, 237A & B, I...

Triose
3.8 ★★★★☆ (193)
Movie theater · 8 min
Directions   Start   Call



021 1427 8111



Home - TRIOSE

TRIOSE
WE DELIVER HEALING
Menu

WE MAKE A DIFFERENCE IN HEALTHCARE

For 20 years TRIOSE has helped health systems manage their supply chain operations and gain visibility over costs, returning time to serve patients. TRIOSE has a singular focus on making a difference in healthcare,

# 8.Hospital module-

# 9.Daily Planner

## Add a Task!

Add task

Add description

Finish by

**SAVE**

## Update Task

Picadale Resort

For Dinner

15

☑ Mark as finished

Update

Delete

## Your Daily Planner

**Completed**
Lonavala lake
Dam side view
10 october

**Completed**
Bhushi dam
Waterfall
11

**Not completed**
Picadale Resort
For Dinner
15

**Not completed**
Live Music    Saved
Kumar resort
Today

+

## Your Daily Planner

**Completed**
Lonavala lake
Dam side view
10 october

**Completed**
Bhushi dam
Waterfall
11

**Not completed**
Picadale Resort
For Dinner
15

Updated

+

## Update Task

Lonavala lake

**Are you sure?**

NO    YES

Update

Delete

## Your Daily Planner

**Completed**
Bhushi dam
Waterfall
11

**Completed**
Picadale Resort
For Dinner
15

**Not completed**
Live Music
Kumar resort
Today

Deleted

+

# ⊞ <u>Advantages and Disadvantages</u>

## <u>Advantages:</u>

- The app provides all the information about Lonavala city which would help the tourist to figure out various places to shop roam around also enjoy their food and have fun.

- It provides the user with list of hotels, hospitals, theatres, shopping malls and places to visit with maximum tourist attractions. So a person with zero knowledge about the city can also roam around and enjoy in Lonavala with the help of this app.

- It is an app that gives user a Daily Planner i.e a feature of the TODO List which keeps us updated about the fact whether we have completed the activities planned for the day or is there anything pending by showing it as incomplete.

## <u>Disadvantages:</u>

- Requirement of Database for storage of data.
- It provides the information that is restricted to Lonavala City.
- Uses the traditional method of Login and registration.

# Conclusion

The following can be the conclusion of the project entitled "Lonavala City Guide" application.

- Availability of all the necessary information required by the tourist under one application.
- Provides the Login and the Registration facility to the users with validation features in it.
- Provides a detailed information about the city by giving the user an complete idea about the Hotels, Hospitals, Shopping Malls and places to visit.
- Also a Daily Planner is provided for the user in order to manage all the activities and plan out the tour for the accordingly.
- In short the application will prove to be helpful to the users who know nothing about the place and they too can enjoy and make good memories.

# Thank You!