INDUSTRIAL TRAINING REPORT

"Hostel Application"

Submitted in partial fulfillment of the

Requirements for the award of

Degree of Bachelor of Technology in

Computer Science & Engineering

Submitted by :-

Name : Simran Khanna

University Roll No. : 2101869

Department of Computer Science &Engineering

CHANDIGARH ENGINEERING COLLEGE, CGC, LANDRAN, MOHALI

Declaration

I hereby declare that the Industrial Training Report entitled "Hostel Application" is an authentic record of my own work as requirements of six weeks Industrial Training in Android Programming for Mobiles & Tablets from 03rd July 2023 till 21st July 2023 at Chandigarh Engineering College, Landran for the award of degree of B.Tech. CSE, under the supervision of Mr. Parminder Singh (Project Guide) .

<div align="right">

Simran Khanna
2101869

</div>

Date: _____

Certified that the above statement made by the student is correct to the best of our knowledge and belief.

Signatures
Examined by:

<div align="right">

Head of Department
(Signature and Seal)

</div>

Acknowledgement

Through this acknowledgement, I express our sincere gratitude to all those people who have been associated with this project and have helped me with it and made it a worthwhile experience. First and foremost we would like to thank Almighty for giving me courage to make this project. At the outset, i would like to propose a word of thanks for the people who gave me unending support and help in numerous ways.

Firstly, I express our thanks to **Dr. Sukhpreet Kaur**(HOD CSE DEPTT) who gave me this opportunity to learn the subject in a practical approach who guided me and gave me valuable suggestions regarding the project report.

Secondly, I would like to thanks **Mr. Parminder Singh** (Project guide) and faculty members of **Society for Promotion of Information Technology (SPIC), Chandigarh** who gave me their immense support in completing the project. The atmosphere provided was full of gaining more and more knowledge and to keep enthusiastic nature. The teachers provided a lot of help in resolving our doubts and making this project successful in shorter time. Lastly, I would also like to thank my parents and friends who helped us a lot in finishing the project in limited time. I make this project not only for marks but also to increase our knowledge. Thanks again to all who helped me in completion of this project.

Simran Khanna (2101869)

B.tech (CSE) 5th

REF No : SPIC/2023/68840

DATED : 10-12-2023

To Whom It May Concern

This is to certify that Ms Simran Khanna d/o Sh Kailash Khanna student of Second Year IVth Semester B.Tech Computer Science & Engineering from Chandigarh Engineering College , Landran has completed her six weeks industrial training in Android Programming for Mobiles & Tablets from 03rd July 2023 till 21st July 2023 at Chandigarh Engineering College , Landran under the supervision of Mr Parminder Singh. She worked on project "Hostel Application" in 'Android Application Development as front end and MY SQL as back end from 14th July 2023 to 21st July 2023.She has attended the department for required number of days. It embodies the original work and is the result of candidate own efforts.

Faculty
For CEO-SPIC

Table of Contents

Company Profile

Company Name: Society for Promotion of IT
Location: Mohali

About organization:

The Society for Promotion of IT in Chandigarh (SPIC) has been set up under the aegis of the Department of Information Technology, Chandigarh Administration for implementing the various plans of the Administration to promote the IT industry in Chandigarh. The Chairperson of the Society is the Adviser to the Administrator.

The Department of Information Technology was setup in March 2000.

Information Technology is an important and extremely effective tool through which development and progress can take place with the co-operation of all strata of society including government and the public. Chandigarh Administration is committed to providing responsive and effective administration for the welfare of the public keeping in view the national objectives.

Chandigarh is the first planned city in the country and still maintains its status as one of the best managed cities in the country. The excellent social infrastructure, large green spaces and its compact size make Chandigarh an ideal work environment. The quality of life in the City Beautiful is comparable to the best cities across the world.

Chapter No. :- 1

1.1 INTRODUCTON

1. **Purpose:**
Streamlining Student Housing Management is a challenging task. Our Hostel Application is a solution that can help you manage your hostel efficiently. The application is designed to simplify the hostel management process and provide an easy-to-use interface for both staff and students.

2. **Scope:**
The Hostel Application is designed to run on the Android devices and It aims to be user-friendly, lightweight, and efficient in fulfilling its primary functions.

Features:-

- Our Hostel Application is a comprehensive solution for managing student housing.
- Students can easily enter their details while the warden can access the details of any of the students which makes them easy accessing of the data.
- Our application enables you to send broadcast messages to students. This feature can be used to convey important announcements or reminders to all students at once, saving time and effort. With this tool, you can ensure that students stay informed and engaged with the activities and events taking place at your institution.

1.2 TECHNOLOGIES USED

1. Android Studio

Android Studio is the official Integrated Development Environment (IDE) for Android app development. Based on the powerful code editor and developer tools from IntelliJ IDEA , Android Studio offers even more features that enhance your productivity when building Android apps, such as:

- A flexible Gradle-based build system

- A fast and feature-rich emulator

- A unified environment where you can develop for all Android devices

- Live Edit to update composables in emulators and physical devices in real time

- Code templates and GitHub integration to help you build common app features and import sample code

- Extensive testing tools and frameworks

- Lint tools to catch performance, usability, version compatibility, and other problems

- C++ and NDK support

- Built-in support for Google Cloud Platform, making it easy to integrate Google Cloud Messaging and App Engine
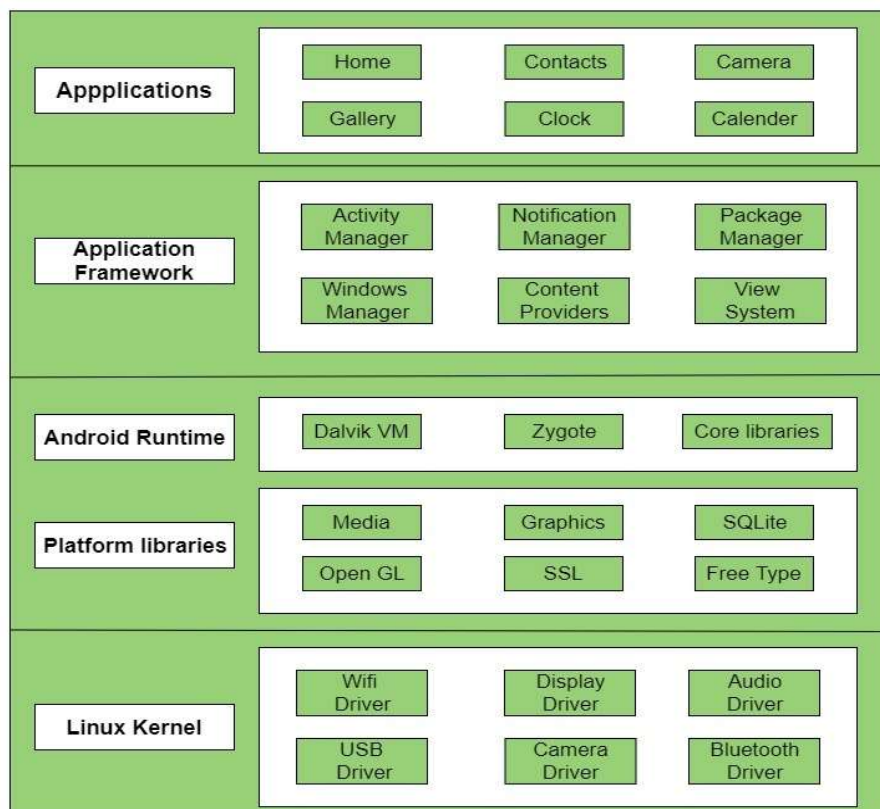
Android Architecture

Android architecture contains different number of components to support any android device needs. Android software contains an open-source Linux Kernel having collection of number of C/C++ libraries which are exposed through an application framework services.

Among all the components Linux Kernel provides main functionality of operating system functions to smartphones and Dalvik Virtual Machine (DVM) provide platform for running an android application.
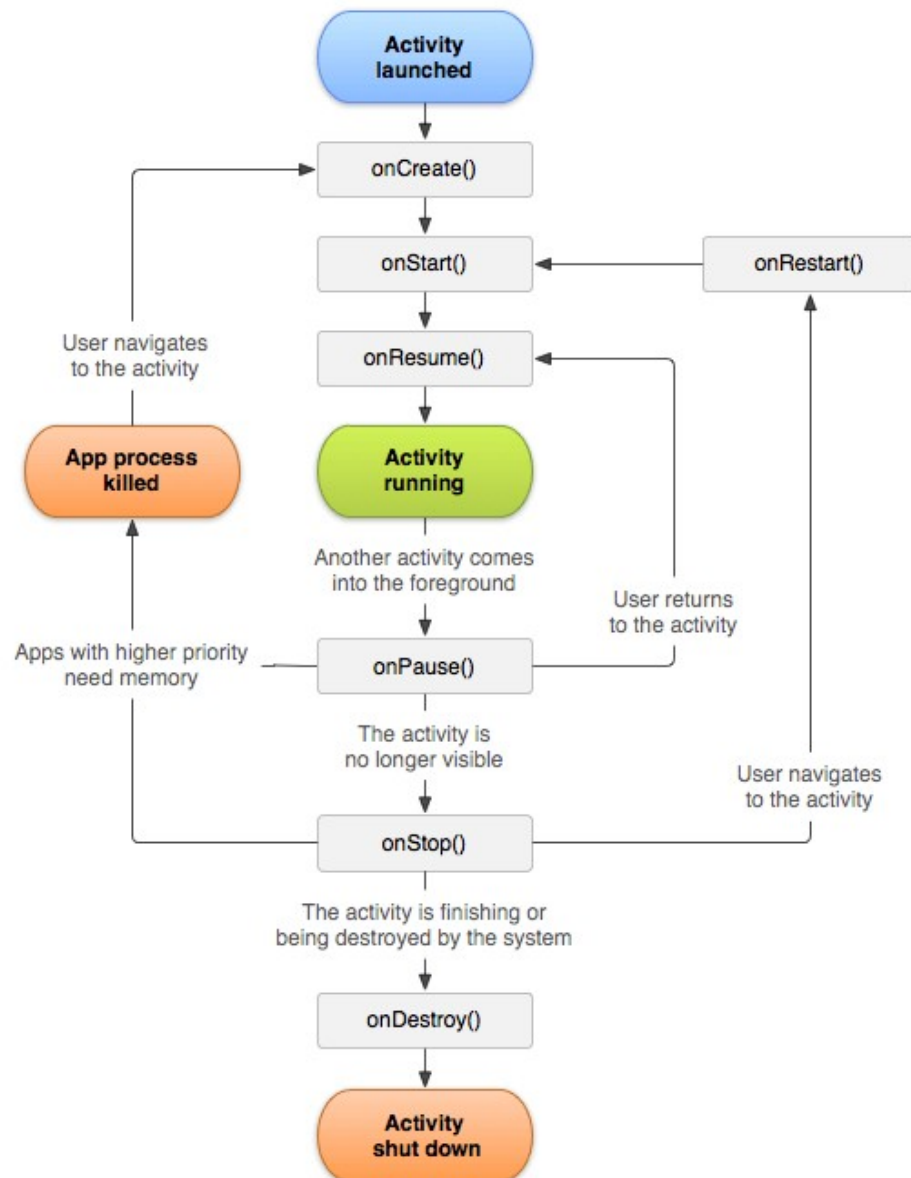
The main components of android architecture are following:-

- Applications
- Application Framework
- Android Runtime
- Platform Libraries
- Linux Kernel

Pictorial representation of android architecture with several main components and their sub components –

Android Project LifeCycle

2. JAVA

Java is a widely-used programming language for coding web applications. It has been a popular choice among developers for over two decades, with millions of Java applications in use today. Java is a multi-platform, object-oriented, and network-centric language that can be used as a platform in itself . It is a fast, secure, reliable programming language for coding everything from mobile apps and enterprise software to big data applications and server-side technologies.

Java is a technology consisting of both a programming language and a software platform. To create an application using Java, you need to download the Java Development Kit (JDK), which is available for Windows, macOS, and Linux. You write the program in the Java programming language, then a compiler turns the program into Java bytecode—the instruction set for the Java Virtual Machine (JVM) that is a part of the Java runtime environment (JRE). Java bytecode runs without modification on any system that supports JVMs, allowing your Java code to be run anywhere.

1.3 <u>System Requirements:</u>

Hardware Requirements:-

To run the Timer Application, your Android device must meet the following minimum requirements:

1. Android OS version 5.0 (Lollipop) or higher.
2. Minimum 1 GB of RAM.
3. Minimum 50 MB of free storage space.

Software Requirements:-

The Timer Application is compatible with Android devices running version 5.0 (Lollipop) or Higher.

1.4 <u>Installation:</u>

1. Prerequisites

   Ensure your Android device meets the hardware and software requirements mentioned in

2. Installation Steps

- Download the apk file.
- Locate the apk file and open it.
- Tap the "Install" button to download and install the application.
- Once the installation is complete, you can find the Timer Application named "Clock" icon on your home screen or app drawer.

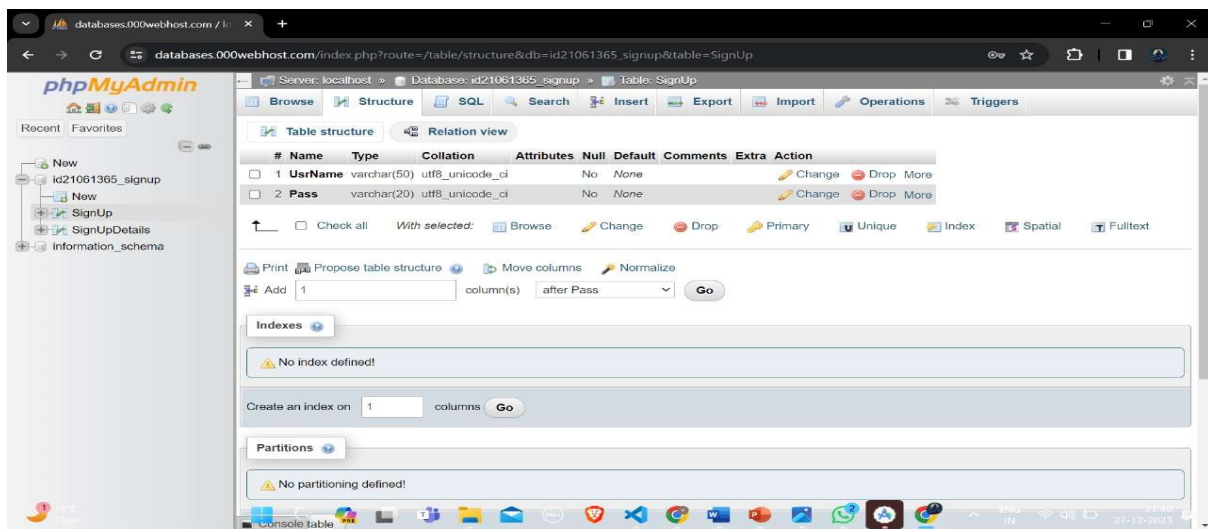## <u>Troubleshooting:-</u>

If you encounter any issues or unexpected behavior while using the Hostel Application, try restarting the application or your device.
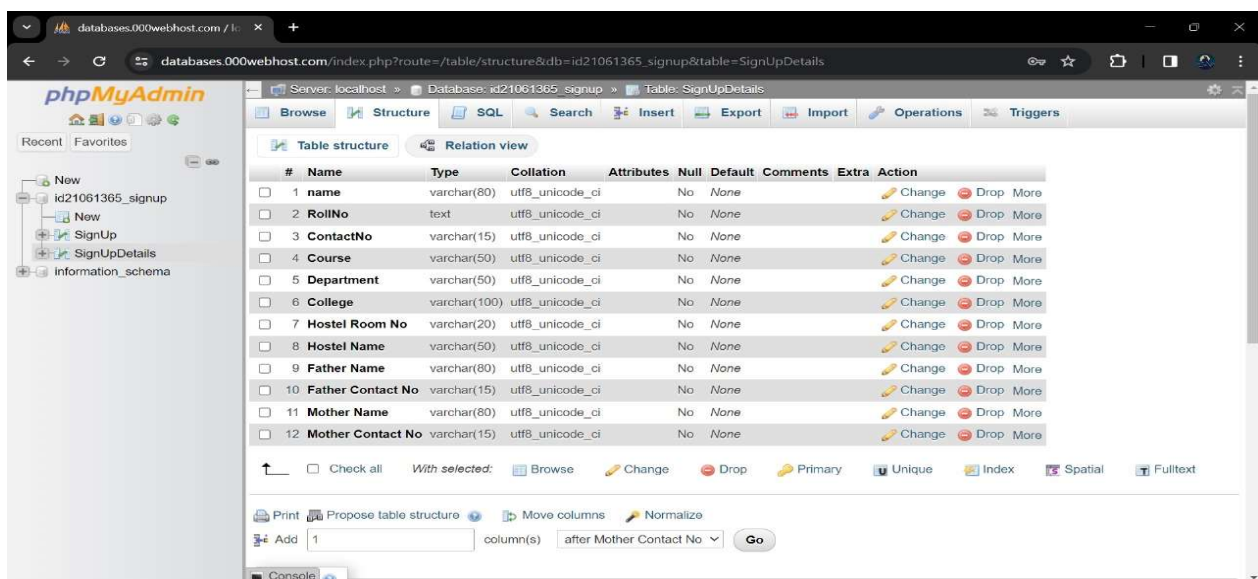
Chapter No. :- 2

Data Base Tables

2.1   SignUp Table:(Table name is SignUp)

This stores the username and password of the login user.

2.2   DetailsTable: (Table name is SignUpDetails)
This table store the details of the student.

Chapter No. :- 3

Project Code

3.1 <u>JAVA FILES:-</u>

1.SplashActivity.java

```java
package com.example.applicationproject;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;

public class SplashActivity extends AppCompatActivity {

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

        Thread th=new Thread(){
            @Override
            public void run(){
                try {
                    sleep(2000);
                }
                catch (Exception a){
                    a.printStackTrace();
                }
                finally {
                    Intent st=new Intent(SplashActivity.this, Login.class);
                    startActivity(st);
                }
            }
        };th.start();

    }
}
```

2.login.java

```java
package com.example.applicationproject;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;


public class Login extends AppCompatActivity implements View.OnClickListener {

    EditText txt1, txt2;
    Button btn1,btn2;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);
        Intent st=getIntent();

        txt1= (EditText) findViewById(R.id.txtUserName);
        txt2= (EditText) findViewById(R.id.txtPass);

        btn1 = (Button) findViewById(R.id.btnLogin);
        btn2 = (Button) findViewById(R.id.btnSignup);
        btn1.setOnClickListener(this);
        btn2.setOnClickListener(this);
    }

    @Override
    public void onClick(View view) {
        if(view.getId()==R.id.btnLogin){
            Intent s=new Intent(Login.this, Messages.class);
            startActivity(s);
        }
        else if(view.getId()==R.id.btnSignup){
            Intent it = new Intent(Login.this, SignUp.class);
            startActivity(it);
        }
    }
}
```

3.SignUp.java

package com.example.applicationproject;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import com.android.volley.AuthFailureError;
import com.android.volley.Request;
import com.android.volley.RequestQueue;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.StringRequest;
import com.android.volley.toolbox.Volley;

import java.util.HashMap;
import java.util.Map;

public class SignUp extends AppCompatActivity implements View.OnClickListener
{

    Button btn;
    EditText txt1,txt2,txt3;

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

        btn=(Button) findViewById(R.id.btn);
        btn.setOnClickListener(this);
    }
    @Override
    public void onClick(View view) {
        txt1=(EditText) findViewById(R.id.txtUserName);
        txt2=(EditText) findViewById(R.id.txtPassword);
        txt3=(EditText) findViewById(R.id.txtConfirmPassword);
            String url="https://unhung-lumps.000webhostapp.com/mySignUp_api/signup.php";
            StringRequest stringRequest=new StringRequest(Request.Method.POST, url, new

```java
Response.Listener<String>() {
    @Override
    public void onResponse(String response) {
        Toast.makeText(getApplicationContext(),response,Toast.LENGTH_LONG).show();
    }
}, new Response.ErrorListener() {
    @Override
    public void onErrorResponse(VolleyError error) {

Toast.makeText(getApplicationContext(),error.getMessage(),Toast.LENGTH_LONG).show();
    }
})
{

    @Override
    protected Map<String,String> getParams() throws AuthFailureError{
        Map<String,String> param=new HashMap<String,String>();
        param.put("a",txt1.getText().toString());
        param.put("b",txt2.getText().toString());
        return param;
    }
};
RequestQueue myrequest;
myrequest=Volley.newRequestQueue(this);
myrequest.add(stringRequest);
Intent v=new Intent(SignUp.this, details.class);
startActivity(v);
    }
}
```

4.Messages.java

```java
package com.example.applicationproject;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import androidx.appcompat.app.AppCompatActivity;
```

```java
public class Messages extends AppCompatActivity implements View.OnClickListener {

    Button msg,bcmsg,sdbtn;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_messages);

        msg=(Button) findViewById(R.id.button);

        bcmsg=(Button) findViewById(R.id.send_broadcast_message);

        sdbtn=(Button) findViewById(R.id.show_details);

        msg.setOnClickListener(this);

        bcmsg.setOnClickListener(this);

        sdbtn.setOnClickListener(this);

    }


    @Override

    public void onClick(View view) {

        if (view.getId()==R.id.button) {

            Intent star = new Intent(Messages.this, BroadCastMessage.class);

            startActivity(star);

        } else if (view.getId()==R.id.send_broadcast_message){

            Intent start= new Intent(Messages.this, SendMessage.class);

            startActivity(start);

        } else if (view.getId()==R.id.show_details){

            Intent a=new Intent(Messages.this,getDetails.class);

            startActivity(a);
```

```
        }

    }

}
```

5.SendMessage.java

```java
package com.example.applicationproject;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class SendMessage extends AppCompatActivity implements View.OnClickListener {

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

        Button sndBtn=(Button) findViewById(R.id.send_btn_id);
        sndBtn.setOnClickListener(this);

    }

    @Override
    public void onClick(View view) {
        EditText input_txt=(EditText)  findViewById(R.id.send_txt_id);
        message.msg=input_txt.getText().toString();
        Intent intent = new Intent(getApplicationContext(), BroadCastMessage.class);
        Toast.makeText(this, "Data Send Successfully", Toast.LENGTH_SHORT).show();

    }
}
```

6.BroadCastMessage.java

```java
package com.example.applicationproject;

import android.os.Bundle;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class BroadCastMessage extends AppCompatActivity {

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

        tx=(TextView) findViewById(R.id.txtMsgRecieved);
        tx.setText(message.msg);
    }
}
```

7.details.java

```java
package com.example.applicationproject;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import com.android.volley.AuthFailureError;
import com.android.volley.Request;
import com.android.volley.RequestQueue;
import com.android.volley.Response;
import com.android.volley.VolleyError;
```

```java
import com.android.volley.toolbox.StringRequest;
import com.android.volley.toolbox.Volley;

import java.util.HashMap;
import java.util.Map;

public class details extends AppCompatActivity implements View.OnClickListener {
    EditText txt1,txt2,txt3,txt4,txt5,txt6,txt7,txt8,txt9,txt10,txt11,txt12;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_details);
        Button btn=(Button) findViewById(R.id.btnSubmit);
        btn.setOnClickListener(this);
    }

    @Override
    public void onClick(View view) {
        txt1=(EditText) findViewById(R.id.txtName);
        txt2=(EditText) findViewById(R.id.txtRoll);
        txt3=(EditText) findViewById(R.id.txtContact);
        txt4=(EditText) findViewById(R.id.txtCourse);
        txt5=(EditText) findViewById(R.id.txtDpt);
        txt6=(EditText) findViewById(R.id.txtCllg);
        txt7=(EditText) findViewById(R.id.txtHR);
        txt8=(EditText) findViewById(R.id.txtHN);
        txt9=(EditText) findViewById(R.id.txtFN);
        txt10=(EditText) findViewById(R.id.txtFC);
        txt11=(EditText) findViewById(R.id.txtMN);
        txt12=(EditText) findViewById(R.id.txtMC);
        String url="https://unhung-lumps.000webhostapp.com/myDetails_api/details.php";
        StringRequest stringRequest=new StringRequest(Request.Method.POST, url, new
Response.Listener<String>() {
            @Override
            public void onResponse(String response) {
                Toast.makeText(getApplicationContext(),response,Toast.LENGTH_SHORT).show();
            }
        }, new Response.ErrorListener() {
            @Override
            public void onErrorResponse(VolleyError error) {

Toast.makeText(getApplicationContext(),error.getMessage(),Toast.LENGTH_SHORT).show()
;
            }
        })
        {
```

```java
        @Override
        protected Map<String,String> getParams() throws AuthFailureError {
            Map<String,String> param=new HashMap<String,String>();
            param.put("a",txt1.getText().toString());
            param.put("b",txt2.getText().toString());
            param.put("c",txt3.getText().toString());
            param.put("d",txt4.getText().toString());
            param.put("e",txt5.getText().toString());
            param.put("f",txt6.getText().toString());
            param.put("g",txt7.getText().toString());
            param.put("h",txt8.getText().toString());
            param.put("i",txt9.getText().toString());
            param.put("j",txt10.getText().toString());
            param.put("k",txt11.getText().toString());
            param.put("l",txt12.getText().toString());
            return param;
        }
    };
    RequestQueue myrequest;
    myrequest= Volley.newRequestQueue(this);
    myrequest.add(stringRequest);
    Toast.makeText(this, "Data Entered Successfully" , Toast.LENGTH_SHORT).show();
    }
}
```

8.message.java

```java
package com.example.applicationproject;

public class message {
    public static String msg;
}
```

9.getDetails.java

```java
package com.example.applicationproject;

import android.os.AsyncTask;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;
```

```java
import androidx.appcompat.app.AppCompatActivity;

import org.json.JSONArray;
import org.json.JSONException;
import org.json.JSONObject;

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.net.HttpURLConnection;
import java.net.URL;

public class getDetails extends AppCompatActivity{
    HttpURLConnection httpURLConnection;
    String editor;
    Bundle extras;

    TextView txt1,txt2,txt3,txt4,txt5,txt6,txt7,txt8,txt9,txt10,txt11,txt12;
    private static final String apiurl="https://unhung-
lumps.000webhostapp.com/getDetails_api/getDetails.php";
    @Override
    protected void onCreate(Bundle savedInstanceState){
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_get_details);
        txt1=(TextView) findViewById(R.id.txtViewName);
        txt2=(TextView) findViewById(R.id.textViewRoll);
        txt3=(TextView) findViewById(R.id.textViewCourse);
        txt4=(TextView) findViewById(R.id.textViewDept);
        txt5=(TextView) findViewById(R.id.textViewCllg);
        txt6=(TextView) findViewById(R.id.textViewContact);
        txt7=(TextView) findViewById(R.id.textViewHR);
        txt8=(TextView) findViewById(R.id.textViewHN);
        txt9=(TextView) findViewById(R.id.textViewFN);
        txt10=(TextView) findViewById(R.id.textViewFC);
        txt11=(TextView) findViewById(R.id.textViewMN);
        txt12=(TextView) findViewById(R.id.textViewMC);
        getJSON();
    }



    private void getJSON() {

        class GetJSON extends AsyncTask<String, Void, String> {
```

```java
        @Override
        protected String doInBackground(String... strings) {
            try {
                URL url= new URL (apiurl);
                HttpURLConnection con=(HttpURLConnection) url.openConnection();
                StringBuilder sb = new StringBuilder();
                BufferedReader bufferedReader = new BufferedReader (new
InputStreamReader(con.getInputStream()));
                String json;
                while ((json = bufferedReader.readLine()) != null) {
                    sb.append(json + "\n");
                }
                bufferedReader.close();
                return sb.toString().trim();
            } catch (Exception e) {
                return "";
            }
        }

        protected void onPostExecute(String s){
            super.onPostExecute(s);
            Toast.makeText(getApplicationContext(), s, Toast.LENGTH_SHORT).show();
            try {
                loadIntoListView(s);
            } catch (JSONException e) {
                e.printStackTrace();
            }
        }
        }
        GetJSON obj = new GetJSON();
        obj.execute(apiurl);
    }


    private void loadIntoListView(String json) throws JSONException {
        JSONArray jsonArray = new JSONArray(json);
        String[] heroes = new String[jsonArray.length()];
        for (int i = 0; i < jsonArray.length(); i++) {
            JSONObject obj = jsonArray.getJSONObject(i);
            txt1.setVisibility(View.VISIBLE);
            txt2.setVisibility(View.VISIBLE);
            txt3.setVisibility(View.VISIBLE);
            txt4.setVisibility(View.VISIBLE);
            txt5.setVisibility(View.VISIBLE);
            txt6.setVisibility(View.VISIBLE);
            txt7.setVisibility(View.VISIBLE);
```

```
            txt8.setVisibility(View.VISIBLE);
            txt9.setVisibility(View.VISIBLE);
            txt10.setVisibility(View.VISIBLE);
            txt11.setVisibility(View.VISIBLE);
            txt12.setVisibility(View.VISIBLE);

            txt1.setText(obj.getString("name"));
            txt2.setText(obj.getString("RollNo"));
            txt3.setText(obj.getString("ContactNo"));
            txt4.setText(obj.getString("Course"));
            txt5.setText(obj.getString("Department"));
            txt6.setText(obj.getString("College"));
            txt7.setText(obj.getString("HostelRoomNo"));
            txt8.setText(obj.getString("HostelName"));
            txt9.setText(obj.getString("FatherName"));
            txt10.setText(obj.getString("FatherContactNo"));
            txt11.setText(obj.getString("MotherName"));
            txt12.setText(obj.getString("MotherContactNo"));
        }
    }
}
```

3.2 Xml Files:-

1.activity_login.xml

```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"
    tools:context=".Login"
    android:background="@color/white"
    android:orientation="vertical">

    <TextView
        android:id="@+id/textView"
        android:layout_width="315dp"
        android:layout_height="36dp"
        android:layout_marginLeft="10dp"
        android:layout_marginTop="20dp"
        android:layout_marginRight="10dp"
        android:fontFamily="@font/arbutus"
        android:text="       Chandigarh "
        android:textColor="#2C3FBD"
        android:textSize="24sp" />

    <TextView
        android:id="@+id/textView1"
        android:layout_width="379dp"
        android:layout_height="wrap_content"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:layout_marginBottom="20dp"
        android:fontFamily="@font/arbutus"
        android:text="     Group of Colleges"
        android:textColor="#2C3FBD"
        android:textSize="24sp" />

    <ImageView
        android:id="@+id/imageView2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
```

```xml
    android:layout_marginBottom="40dp"
    android:layout_marginLeft="10dp"
    android:layout_marginRight="10dp"
    app:srcCompat="@drawable/cgc_logo" />

<EditText
    android:id="@+id/txtUserName"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:ems="10"
    android:layout_marginBottom="20dp"
    android:layout_marginLeft="10dp"
    android:layout_marginRight="10dp"
    android:inputType="text"
    android:hint="Enter UserName" />

<EditText
    android:id="@+id/txtPass"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:ems="10"
    android:layout_marginBottom="20dp"
    android:layout_marginLeft="10dp"
    android:layout_marginRight="10dp"
    android:inputType="textPassword"
    android:hint="Enter Password"/>

<Button
    android:id="@+id/btnLogin"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="50dp"
    android:layout_marginLeft="10dp"
    android:layout_marginRight="10dp"
    android:text="Login" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="0dp"
    android:layout_marginLeft="10dp"
    android:layout_marginRight="10dp"
    android:text="New User?" />

<Button
```

```
        android:id="@+id/btnSignup"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="20dp"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:text="Sign Up" />
</LinearLayout>
```

2.activity_sign_up.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"
    tools:context=".SignUp"
    android:background="@color/white"
    android:orientation="vertical"
    >


    <ImageView
        android:id="@+id/imageView"
        android:layout_width="match_parent"
        android:layout_height="245dp"
        android:layout_marginTop="20dp"
        android:layout_marginBottom="40dp"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        app:srcCompat="@drawable/cgc_logo" />

    <EditText
        android:id="@+id/txtUserName"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="20dp"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:inputType="text"
        android:hint="User Name" />

    <EditText
        android:id="@+id/txtPassword"
```

```xml
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:layout_marginBottom="20dp"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:inputType="textPassword"
        android:hint="Password"/>

    <EditText
        android:id="@+id/txtConfirmPassword"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:layout_marginBottom="40dp"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:inputType="textPassword"
        android:hint="Confirm Password"/>

    <Button
        android:id="@+id/btn"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:onClick="Submit"
        android:text="Next" />

</LinearLayout>
```

3.activity_messages.xml

```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"
```

```xml
    tools:context=".Messages">

    <Button
        android:id="@+id/button"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="30dp"
        android:layout_marginBottom="30dp"
        android:text="All Messages" />

    <Button
        android:id="@+id/send_broadcast_message"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Send Message" />

    <Button
        android:id="@+id/show_details"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="30dp"
        android:layout_marginBottom="30dp"
        android:text="Show Details" />
</LinearLayout>
```

4.activity_send_message.xml

```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=".SendMessage">

    <EditText
        android:id="@+id/send_txt_id"
        android:layout_width="300dp"
        android:layout_height="wrap_content"
        android:layout_marginLeft="40dp"
        android:layout_marginTop="20dp"
        android:hint="input"
        android:ems="10"
        android:textSize="25dp"
```

```
        android:textStyle="bold"
        android:inputType="text" />

    <Button
        android:id="@+id/send_btn_id"
        android:layout_width="150dp"
        android:layout_height="50dp"
        android:layout_marginLeft="130dp"
        android:layout_marginTop="150dp"
        android:text="Send"
        android:textStyle="bold" />
</RelativeLayout>
```

5.activity_splash.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=".SplashActivity">

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="377dp"
        android:layout_height="244dp"
        android:layout_centerInParent="true"
        app:srcCompat="@drawable/cgc_pic" />
</RelativeLayout>
```

6.activity_details. 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=".details">
```

```xml
<EditText
    android:id="@+id/txtName"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="text"
    android:hint="Enter your Name" />


<EditText
    android:id="@+id/txtRoll"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="text"
    android:hint="Enter your Roll Number" />

<EditText
    android:id="@+id/txtContact"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="number"
    android:hint="Enter your Contact Number"/>

<EditText
    android:id="@+id/txtCourse"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="text"
    android:hint="Enter your Course" />

<EditText
    android:id="@+id/txtDpt"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="text"
    android:hint="Enter your department" />

<EditText
    android:id="@+id/txtCllg"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
```

```xml
        android:ems="10"
        android:inputType="text"
        android:hint="Enter your College" />

    <EditText
        android:id="@+id/txtHR"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="number"
        android:hint="Enter your Hostel Room No"/>

    <EditText
        android:id="@+id/txtHN"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="text"
        android:hint="Enter your Hostel name" />

    <EditText
        android:id="@+id/txtFN"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="text"
        android:hint="Enter your Father's Name" />

    <EditText
        android:id="@+id/txtFC"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="phone"
        android:hint="Enter your Father's Contact No"/>

    <EditText
        android:id="@+id/txtMN"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="text"
        android:hint="Enter your Mother's Name" />

    <EditText
        android:id="@+id/txtMC"
```

```
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:ems="10"
                    android:inputType="phone"
                    android:hint="Enter your Mother's Contact No"/>

            <Button
                    android:id="@+id/btnSubmit"
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:layout_marginLeft="120dp"
                    android:layout_marginTop="30dp"
                    android:layout_marginRight="120dp"
                    android:text="Submit" />
</LinearLayout>
```

7.activity_get_details.xml

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

    <TextView
        android:id="@+id/txtView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="30dp"
        android:layout_x="-14dp"
        android:layout_y="52dp"
        android:fontFamily="sans-serif-black"
        android:gravity="center"
        android:text="User Details"
        android:textSize="24sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/textView11"
        android:layout_width="131dp"
        android:layout_height="wrap_content"
        android:layout_x="3dp"
```

```
        android:layout_y="130dp"
        android:text="Name"
        android:textSize="18sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/txtViewName"
        android:layout_width="224dp"
        android:layout_height="wrap_content"
        android:layout_x="159dp"
        android:layout_y="132dp"
        />

    <TextView
        android:id="@+id/textView13"
        android:layout_width="131dp"
        android:layout_height="wrap_content"
        android:layout_x="2dp"
        android:layout_y="176dp"
        android:text="Roll No."
        android:textSize="18sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/textViewRoll"
        android:layout_width="224dp"
        android:layout_height="wrap_content"
        android:layout_x="162dp"
        android:layout_y="178dp"
         />

    <TextView
        android:id="@+id/textView15"
        android:layout_width="131dp"
        android:layout_height="wrap_content"
        android:layout_x="4dp"
        android:layout_y="220dp"
        android:text="Contact No"
        android:textSize="18sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/textView16"
        android:layout_width="131dp"
        android:layout_height="wrap_content"
        android:layout_x="4dp"
```

```
        android:layout_y="264dp"
        android:text="Department"
        android:textSize="18sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/textView17"
        android:layout_width="131dp"
        android:layout_height="wrap_content"
        android:layout_x="5dp"
        android:layout_y="314dp"
        android:text="College"
        android:textSize="18sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/textView18"
        android:layout_width="131dp"
        android:layout_height="wrap_content"
        android:layout_x="5dp"
        android:layout_y="362dp"
        android:text="Course"
        android:textSize="18sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/textView19"
        android:layout_width="131dp"
        android:layout_height="wrap_content"
        android:layout_x="7dp"
        android:layout_y="409dp"
        android:text="Hostel RoomNo"
        android:textSize="18sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/textView20"
        android:layout_width="131dp"
        android:layout_height="wrap_content"
        android:layout_x="6dp"
        android:layout_y="453dp"
        android:text="Hostel Name"
        android:textSize="18sp"
        android:textStyle="bold" />

    <TextView
```

```
    android:id="@+id/textView21"
    android:layout_width="131dp"
    android:layout_height="wrap_content"
    android:layout_x="4dp"
    android:layout_y="493dp"
    android:text="Father's Name"
    android:textSize="18sp"
    android:textStyle="bold" />

<TextView
    android:id="@+id/textView22"
    android:layout_width="131dp"
    android:layout_height="wrap_content"
    android:layout_x="6dp"
    android:layout_y="533dp"
    android:text="Father's Contact"
    android:textSize="18sp"
    android:textStyle="bold" />

<TextView
    android:id="@+id/textView23"
    android:layout_width="131dp"
    android:layout_height="wrap_content"
    android:layout_x="7dp"
    android:layout_y="579dp"
    android:text="Mother's Name"
    android:textSize="18sp"
    android:textStyle="bold"/>

<TextView
    android:id="@+id/textView24"
    android:layout_width="147dp"
    android:layout_height="wrap_content"
    android:layout_x="5dp"
    android:layout_y="622dp"
    android:text="Mother's Contact"
    android:textSize="18sp"
    android:textStyle="bold" />

<TextView
    android:id="@+id/textViewCourse"
    android:layout_width="224dp"
    android:layout_height="wrap_content"
    android:layout_x="167dp"
    android:layout_y="224dp"
     />
```

```xml
<TextView
    android:id="@+id/textViewDept"
    android:layout_width="224dp"
    android:layout_height="wrap_content"
    android:layout_x="161dp"
    android:layout_y="268dp"
    />

<TextView
    android:id="@+id/textViewCllg"
    android:layout_width="224dp"
    android:layout_height="wrap_content"
    android:layout_x="165dp"
    android:layout_y="319dp"
    />

<TextView
    android:id="@+id/textViewContact"
    android:layout_width="224dp"
    android:layout_height="wrap_content"
    android:layout_x="165dp"
    android:layout_y="366dp"
    />

<TextView
    android:id="@+id/textViewHR"
    android:layout_width="224dp"
    android:layout_height="wrap_content"
    android:layout_x="166dp"
    android:layout_y="410dp"
    />

<TextView
    android:id="@+id/textViewHN"
    android:layout_width="224dp"
    android:layout_height="wrap_content"
    android:layout_x="168dp"
    android:layout_y="455dp"
    />

<TextView
    android:id="@+id/textViewFN"
    android:layout_width="224dp"
    android:layout_height="wrap_content"
    android:layout_x="166dp"
```

```xml
        android:layout_y="496dp"
         />

    <TextView
        android:id="@+id/textViewFC"
        android:layout_width="224dp"
        android:layout_height="wrap_content"
        android:layout_x="164dp"
        android:layout_y="537dp"
         />

    <TextView
        android:id="@+id/textViewMN"
        android:layout_width="224dp"
        android:layout_height="wrap_content"
        android:layout_x="167dp"
        android:layout_y="581dp"
         />

    <TextView
        android:id="@+id/textViewMC"
        android:layout_width="224dp"
        android:layout_height="wrap_content"
        android:layout_x="174dp"
        android:layout_y="623dp"
         />
</AbsoluteLayout>
```

3.3 PHP Files
1.signup.php

```php
<?php

    $Server= "localhost";

    $Databasename= "id21061365_signup";

    $UserName="id21061365_root1";

    $Password="Test@123";

    $UsrName=$_POST["a"];

    $Pass=$_POST["b"];


    $con= mysqli_connect($Server, $UserName, $Password, $Databasename);

    $query="Insert into SignUp values('$UsrName', '$Pass')";

    mysqli_query($con, $query);

    mysqli_close($con);


    echo "Record Save";


?>
```

2.details.php

```php
<?php
    $Server= "localhost";
    $Databasename= "id21061365_signup";
    $UserName="id21061365_root1";
    $Password="Test@123";
```

```php
$con= mysqli_connect($Server, $UserName, $Password, $Databasename);

$query="Insert into SignUpDetails values('$name',
'$RollNo','$ContactNo','$Course','$Department','$College','$HostelRoomNo','$HostelName','$FatherName','$FatherContactNo','$MotherName','$MotherContactNo')";

$name=$_POST["a"];
$RollNo=$_POST["b"];
$ContactNo=$_POST["c"];
$Course=$_POST["d"];
$Department=$_POST["e"];
$College=$_POST["f"];
$HostelRoomNo=$_POST["g"];
$HostelName=$_POST["h"];
$FatherName=$_POST["i"];
$FatherContact_No=$_POST["j"];
$MotherName=$_POST["k"];
$MotherContactNo=$_POST["l"];

mysqli_query($con, $query);

mysqli_close($con);

echo "Record Save";

?>
```

3.getDetails.php

```php
<?php
$servername = "localhost";
$username = "id21061365_root1";
$password = "Test@123";
$dbname = "id21061365_signup";


$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error) {
 die("Failed to connect to MySQL:".$conn->connect_error);
 }
```

```php
$heroes=array();

$stmt = $conn->prepare("SELECT * FROM SignUpDetails");

$stmt->execute();


$stmt-
>bind_result($name,$RollNo,$ContactNo,$Course,$Department,$College,$HostelRoomNo,$H
ostelName,$FatherName,$FatherContactNo,$MotherName,$MotherContactNo);

$products = array();

//traversing through all the result
while($stmt->fetch()){
$temp = [
'name'=>$name;
'RollNo'=> $RollNo;
'ContactNo'=> $ContactNo;
'Course'=> $Course;
'Department'=> $Department;
'College'=> $College;
'HostelRoomNo'=> $HostelRoomNo;
'HostelName'=> $HostelName;
'FatherName'=> $FatherName;
'FatherContactNo'=> $FatherContactNo;
'MotherName'=> $MotherName;
'MotherContactNo'=> $MotherContactNo;
];
array_push($heroes, $temp);
}
echo json_encode($heroes);
?>
```
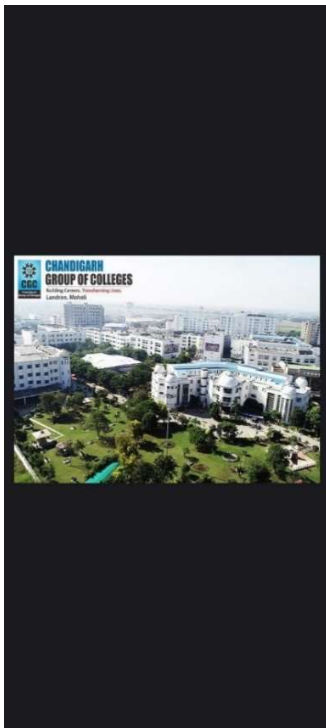
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Project Outcomes

Splash Screen   **Login Screen**   **SignUp Screen**

Message Screen

All Messages

Send Message

Show Details

Send Message Screen

input

Send

Details Screen

Enter your Name

Enter your Roll Number

Enter your Contact Number

Enter your Course

Enter your department

Enter your College

Enter your Hostel Room No

Enter your Hostel name

Enter your Father's Name

Enter your Father's Contact No

Enter your Mother's Name

Enter your Mother's Contact No

Submit

Get Details Screen

User Details

Name	Simran Khanna
Roll No.	2101869
Contact No	7658331180
Department	B.Tech
College	CSE
Course	CEC
Hostel RoomNo	238
Hostel Name	Kalpana Hostel
Father's Name	Kailash Khanna
Father's Contact	9654832522
Mother's Name	Aarti Khanna
Mother's Contact	9705888351

Chapter No. : 5

CONCLUSION

Our Hostel Application is a comprehensive solution for student housing management. It streamlines the hostel management process, simplifies administrative tasks, and improves communication between staff and students. With our application, you can focus on providing a safe and comfortable living environment for your students.

Another benefit of this project is that all the hostel managing works can be done easily through it by saving our time and also by saving the human efforts.

The application is simple and easy to manage .

Chapter No. : 6

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