# 1. INTRODUCTION

## 1.1 Problem Statement:

Developing a complete, integrated android based mobile application to provide students with information regarding College administration details, Departmental details, Placement activities, Library books details, Hostel details, Transportation details, and so on.

## 1.2 Objective:

This mobile application will be used by students, staff and administration. In the previous system, all the information has to view in website. At the same time while searching any information it is too difficult to access and it takes a lot of time to search in the particular website. Hence, in order to overcome this problem a smart phone based mobile application using Android can be used to make this process easier, secure and less error prone.

## 1.3 Proposed System:

Intranet is a real time application that can be installed on any Android devices and improve interactivity, accessibility and convenience in the learning process. This application consists of extra features like Placement details, Students Achievements and Certifications.

## 2. LITERATURE SURVEY

**1. Shilpi, Taneja., Goel, Anita. (2015). Mobile Applications in Educational Institutions. Computational Intelligence Communication Technology (CICT), 2015 IEEE International Conference on. IEEE, 2015.**

In [1] , It is aimed to develop an Android Mobile Application on College Management System on smart phones that is of importance to educational institution. This Mobile Application can be used as a information management system for the college.

**2. Nikhlil Jadhav1 , Bhupesh Singh2 , Kunal Lunge3 , Gopi Mali 4 , Nilesh Patil, Android Application for College Management System, in IJESC Volume 6 Issue No. 12 , 2016.**

In [2] , Android College Management system is an android mobile application which is helpful for students and the colleges. In the proposed system, students can view results using mobile phones. The faculty can login through the mobile app and update the academic result. In this system, students have easy access for viewing the marks, attendance, fee details, timetable, academic calendar and they are not permitted to update the marks.

**3. Ankit Bansal 1,Ajit Rana 2,Akhil Bansod 3,Prafulla Baviskar 4, Mobile based campus Information Retrieval Android Application, in IJCSMC, Vol.4, Issue.3,March 2015**

In [3] , This system focuses on helping the Faculty and Administration who are working in the institution. The android mobile application is focused to help the faculty for the progression and the academic development of the institution. i e. by checking the performance of the students.

# 3. REQUIREMENTS

## 3.1 Software Requirements

- OS - Windows 10
- MySQL, Netbeans
- JAVA, XML
- XAMPP, Android Studio
- Apache server

## 3.2 Hardware Requirements

- Intel Core i3 processor
- RAM 8GB
- Hard Disk Drive 1TB

# 4. METHODOLOGY

## 4.1 ARCHITECTURE

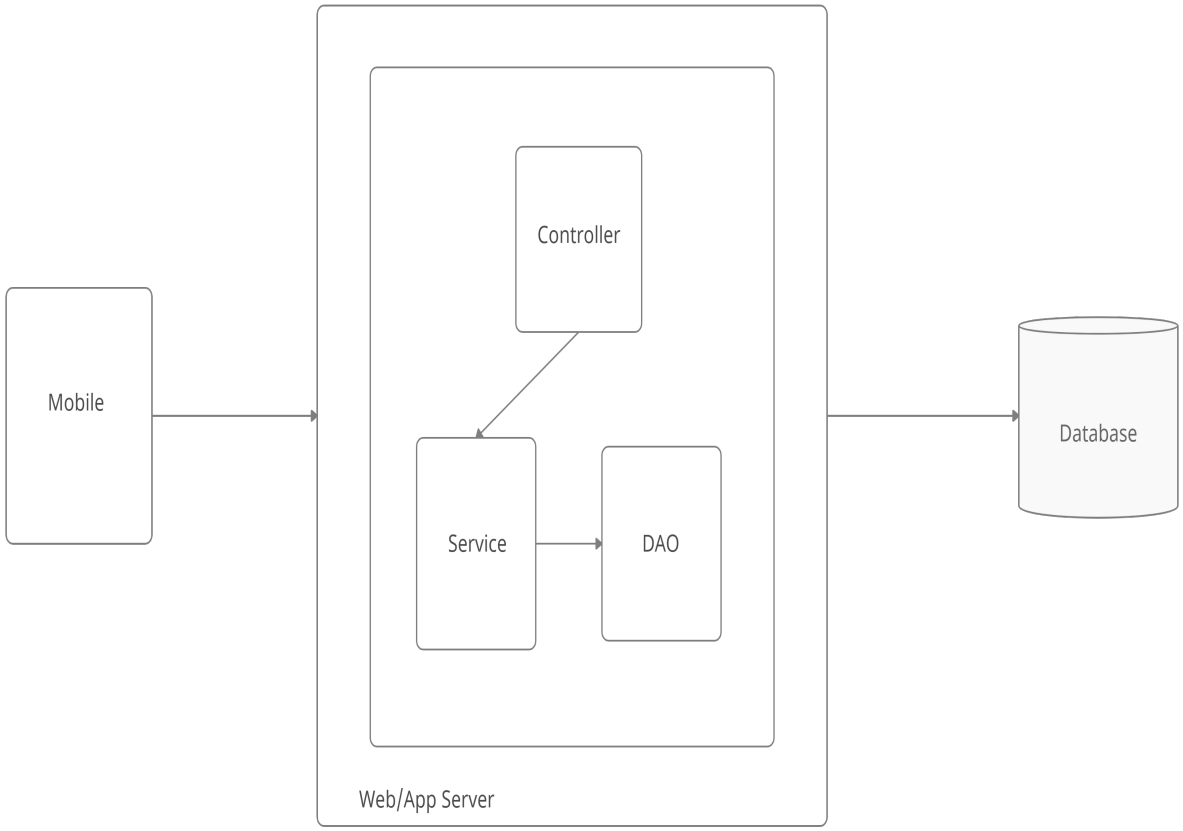


**Figure 1: Architecture**

Whenever the user sends the request controller receives the request from user and sends the same request to service and it sends the same request to DAO and it will fetch all the details from Database according to the request and it send back the data to service and service will sends to controller. Now controller will give response to the user.

## 4.2 ADMIN USECASE

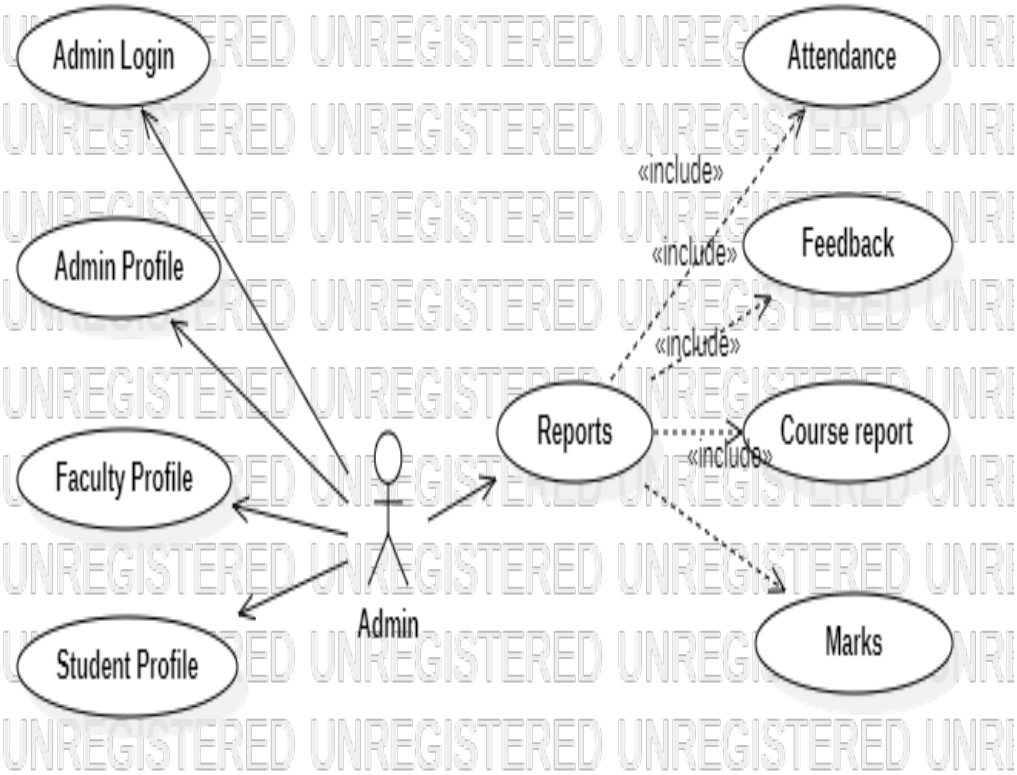


**Figure 2: Admin Usecase**

## 4.3 LIBRARIAN USECASE

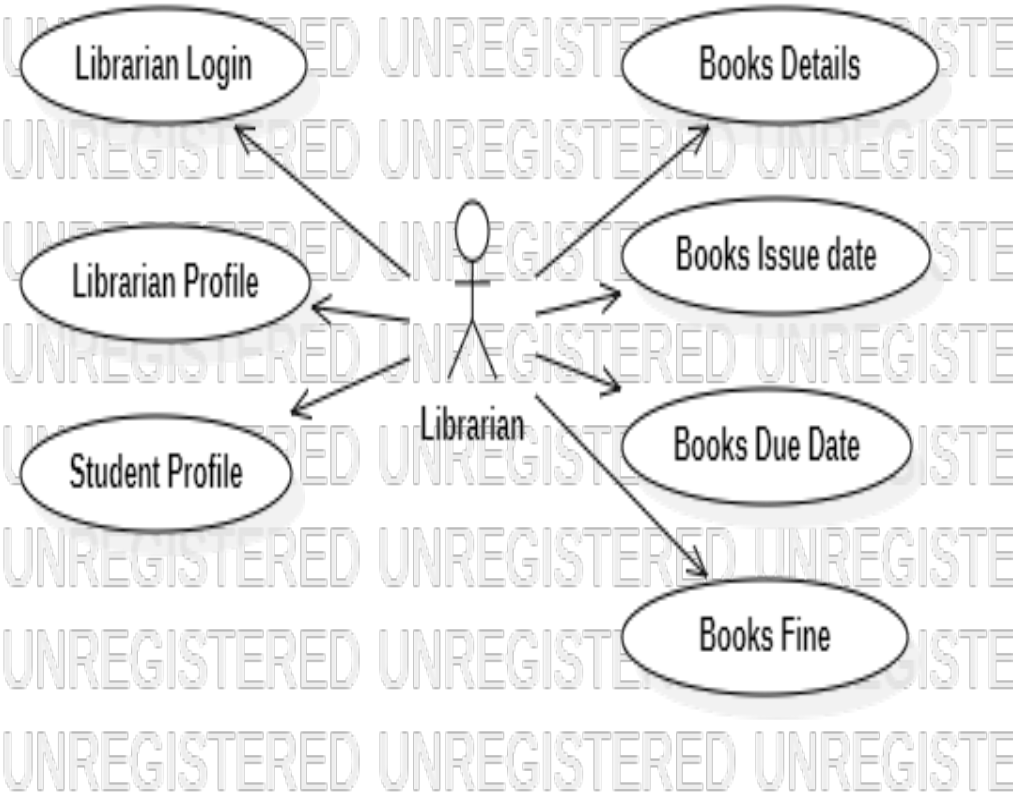


**Figure 3: Librarian Usecase**

## 4.4 FACULTY USECASE

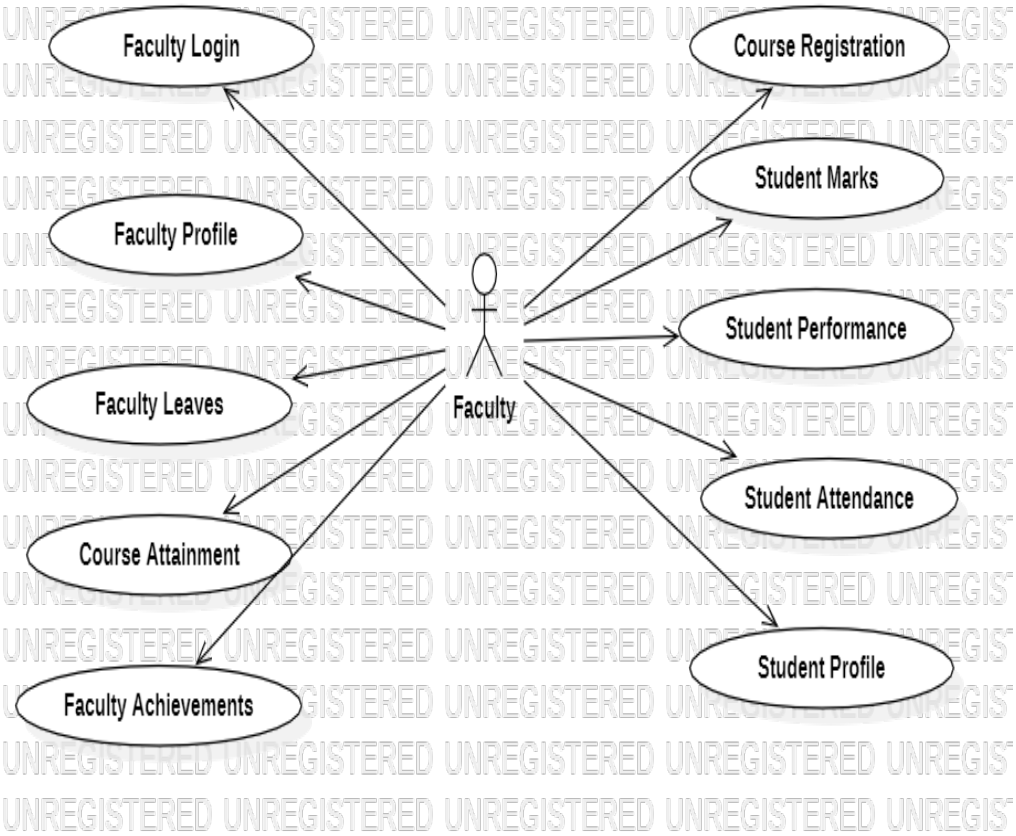


**Figure 4: Faculty Usecase**

## 4.5 STUDENT USECASE

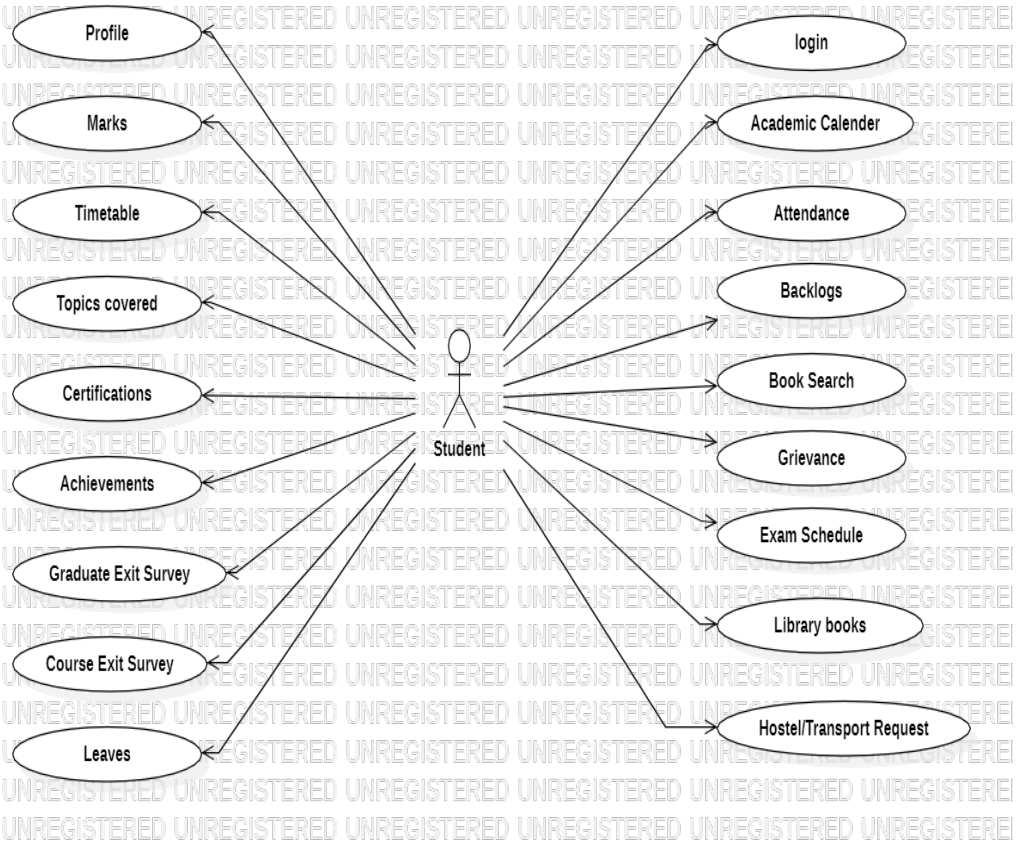


**Figure 5: Student Usecase**

## 5. IMPLEMENTATION

```
package com.example.loginlogout;

import androidx.appcompat.app.AppCompatActivity;
import androidx.loader.content.AsyncTaskLoader;

import android.content.Intent;
import android.content.SharedPreferences;
import android.graphics.Color;
import android.os.AsyncTask;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;

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

public class MainActivity extends AppCompatActivity {
    private static final String apiurl="http://10.0.2.2:1602/
android_db_pool/login_maker.php";
    EditText t1,t2;
    TextView tv;
    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        checklogoutmsg(tv);
    }

    public void login_process(View view){
        t1=(EditText) findViewById(R.id.t1);
        t2=(EditText) findViewById(R.id.t2);
        tv=(TextView) findViewById(R.id.tv);

        String qry="?t1="+t1.getText().toString().trim()+"&t2="
        +t2.getText().toString().trim();
        class dbprocess extends AsyncTask<String,Void,String> {
            @Override
```

```
            protected void onPostExecute(String data) {
                if (data.equals("found")) {
                    SharedPreferences sp = getSharedPreferences(
        "credentials", MODE_PRIVATE);
                    SharedPreferences.Editor editor = sp.edit();
                    editor.putString("uname", t1.getText().
        toString());
                    editor.commit();
                    startActivity(new Intent
        (getApplicationContext(), dashboard.class));
                } else {
                    t1.setText("");
                    t2.setText("");
                    tv.setTextColor(Color.parseColor("#8B0000"));
                    tv.setText(data);
                }
            }


            @Override
            protected String doInBackground(String... params) {
                String furl=params[0];
                try{
                    URL url=new URL(furl);
                   HttpURLConnection conn=(HttpURLConnection)url.
        openConnection();
                    BufferedReader br=new
        BufferedReader(new InputStreamReader((conn.
        getInputStream())));

                    return br.readLine();
                }catch(Exception e){
                    return e.getMessage();
                }
            }
        }

        dbprocess obj=new dbprocess();
        obj.execute(apiurl+qry);

    }

    public void checklogoutmsg(View view){
```

```
        tv=(TextView)findViewById(R.id.tv);

        SharedPreferences sp=getSharedPreferences("credentials",
        MODE_PRIVATE);
        if(sp.contains("msg")){
            tv.setText(sp.getString("msg", ""));
            SharedPreferences.Editor ed=sp.edit();
            ed.remove("msg");
            ed.commit();
        }

    }
}

package com.example.loginlogout;

import androidx.appcompat.app.AppCompatActivity;

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

public class dashboard extends AppCompatActivity
        implements View.OnClickListener {
  TextView tv;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_dashboard);
        Button button=findViewById(R.id.attendance);

        button.setOnClickListener(this);

        tv=(TextView)findViewById(R.id.tv);

        SharedPreferences sp=getSharedPreferences
        ("credentials",MODE_PRIVATE);
        if(sp.contains("uname")) {
```

```
            tv.setText(sp.getString("uname", ""));
        }
    }

    public void logout_process(View view)
    {
        SharedPreferences sp=getSharedPreferences
        ("credentials",MODE_PRIVATE);
        if(sp.contains("uname"))
        {
            SharedPreferences.Editor editor=sp.edit();
            editor.remove("uname");

            editor.putString("msg","Logged out Successfully");
            editor.commit();
            startActivity(new Intent(getApplicationContext(),
        MainActivity.class));
        }

    }

    public void Attendance(View view) {
        Intent intent=new Intent(this,Attendance.class);
        startActivity(intent);
    }

    @Override
    public void onClick(View v) {
        Intent intent=new Intent(this,Attendance.class);
        startActivity(intent);
    }
}
```

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.appcompat.widget.LinearLayoutCompat xmlns:
android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="100dp"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:orientation="horizontal">

    <TextView
        android:layout_width="119dp"
        android:layout_height="34dp"
        android:text="Username"
        android:textColor="#009688"
        android:textSize="20dp" />

    <EditText
        android:id="@+id/t1"
        android:layout_width="335dp"
        android:layout_height="wrap_content" />

</LinearLayout>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="50dp"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:orientation="horizontal">

    <TextView
        android:layout_width="119dp"
        android:layout_height="34dp"
        android:textColor="#009688"
        android:text="Password"
        android:textSize="20dp" />

    <EditText
        android:id="@+id/t2"
        android:layout_width="335dp"
        android:layout_height="wrap_content" />
```

```
    </LinearLayout>

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginTop="40dp"
        android:background="#009688"
        android:text="Login"
        android:textColor="#FFF"
        android:textSize="20dp"
        android:onClick="login_process"
        />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="20dp"
        android:layout_marginTop="40dp"
        android:layout_gravity="center"
        android:id="@+id/tv"
        />

</androidx.appcompat.widget.LinearLayoutCompat>
```

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.appcompat.widget.LinearLayoutCompat 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=".dashboard">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="100dp"
        android:textAlignment="center"
        android:textSize="40dp"
        android:text="Welcome"
        android:id="@+id/tv"
```

```
        />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginTop="40dp"
        android:text="Attendance"
        android:textSize="20dp"
        android:background="#0000FF"
        android:onClick="Attendance"
        android:id="@+id/attendance" />
    <Button
        android:layout_width="120dp"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginTop="40dp"
        android:background="#009688"
        android:text="Logout"
        android:textColor="#FFF"
        android:textSize="20dp"
        android:onClick="logout_process"
        />

</androidx.appcompat.widget.LinearLayoutCompat>
```

## 6. PARTIAL RESULTS

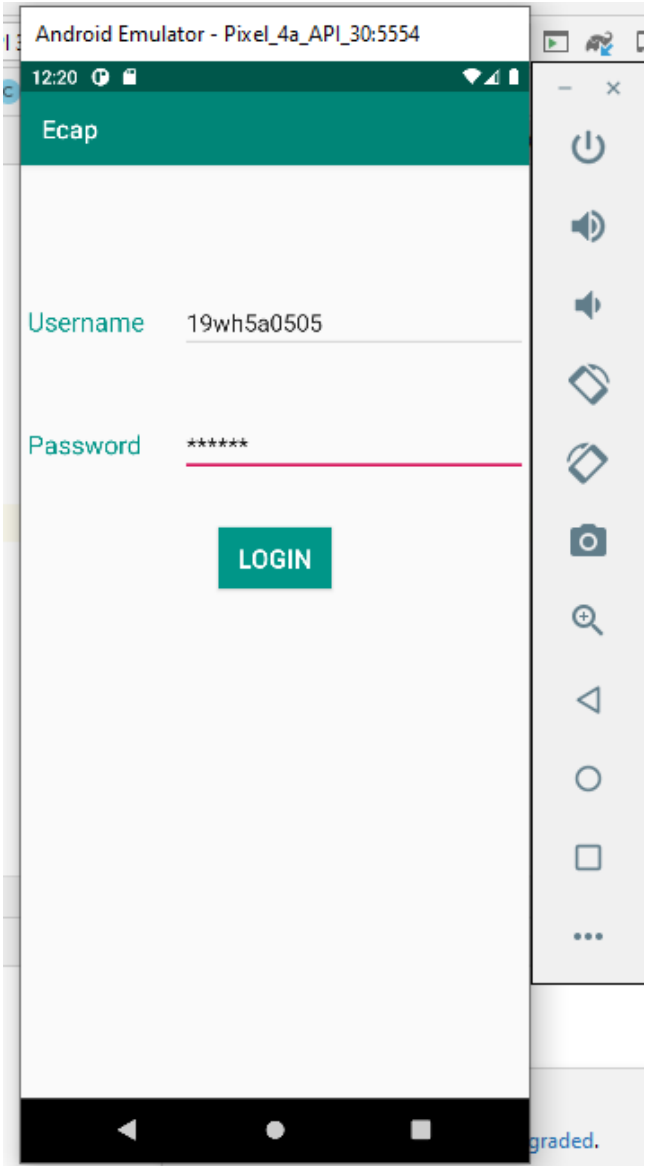


**Figure 6: Student Login Page**

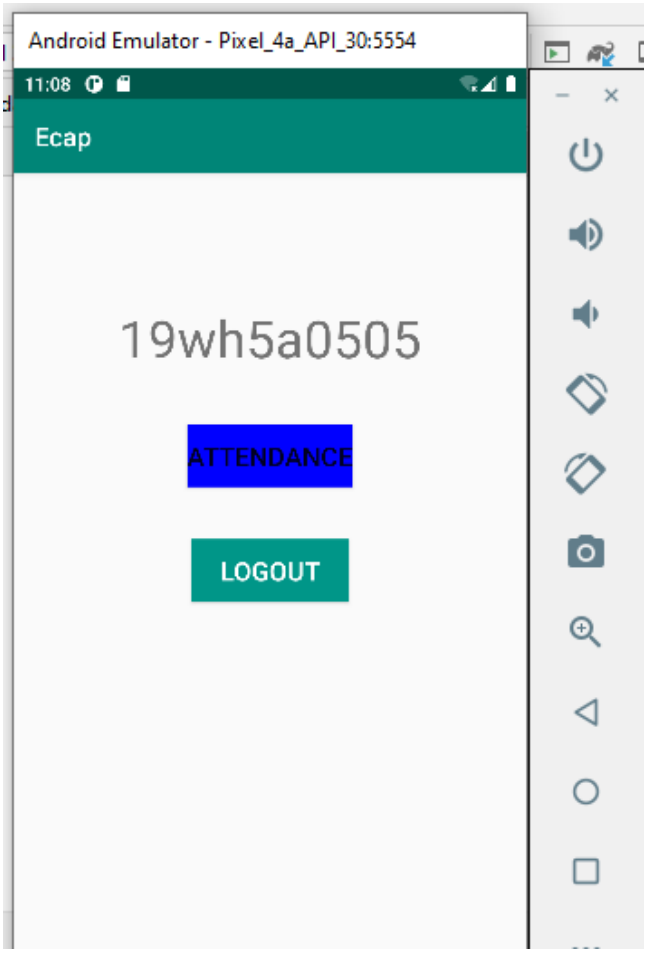


**Figure 7: Selecting Attendance or Logout**

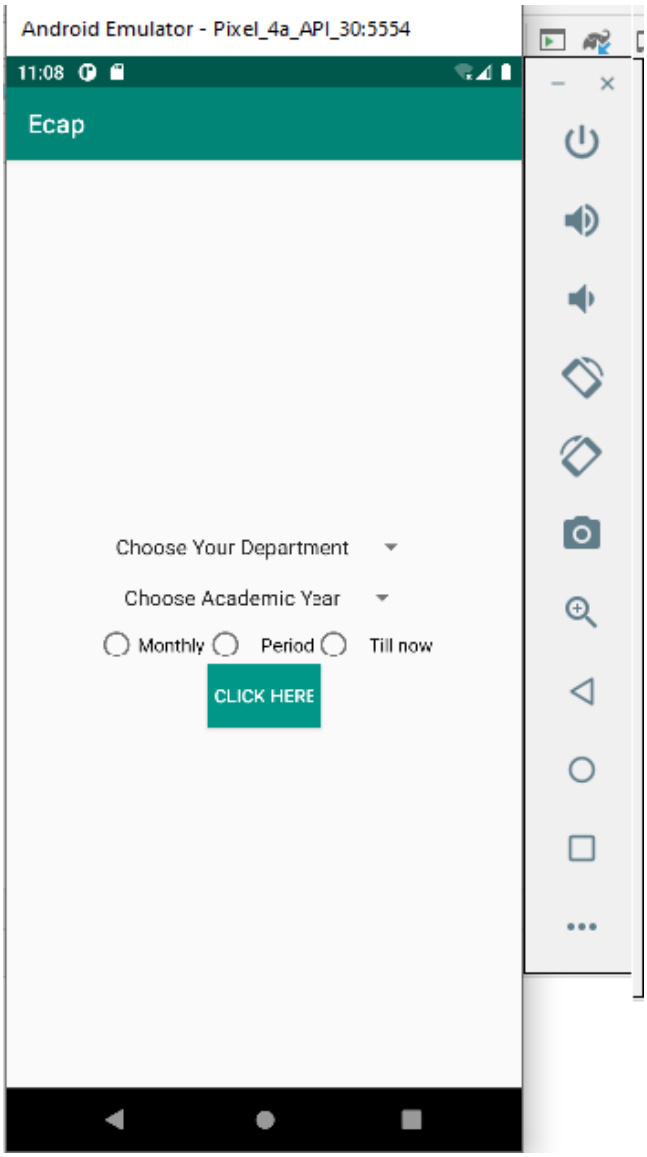


**Figure 8: Attendance Page**

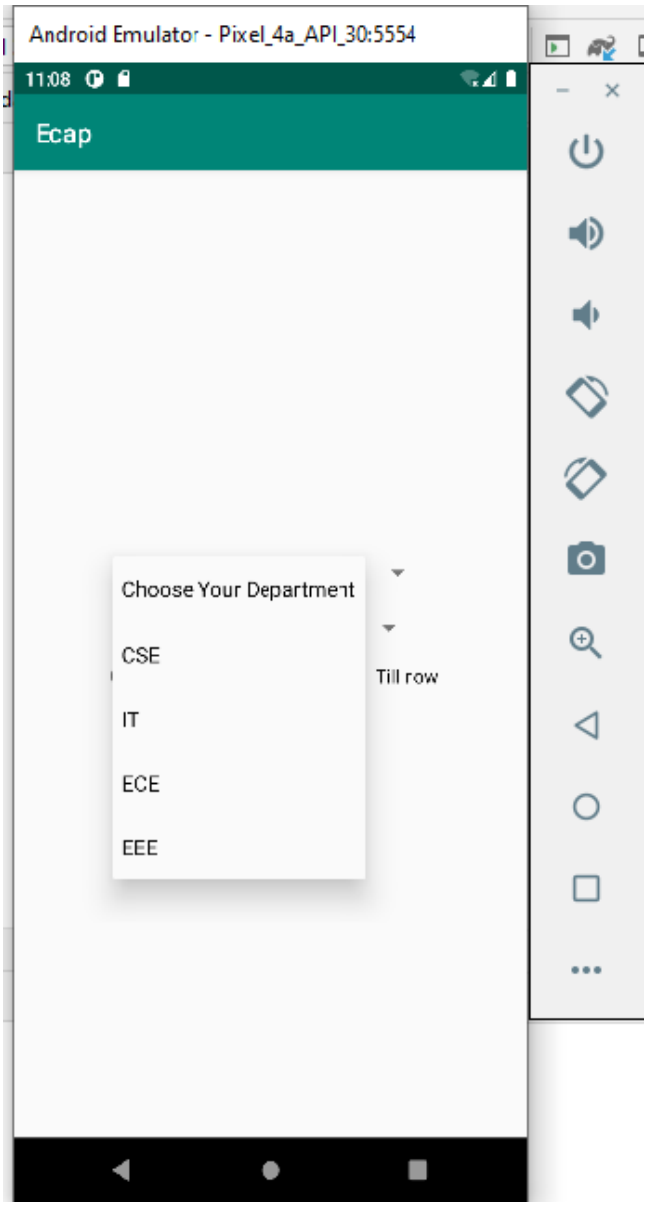


**Figure 9: Selecting Department**

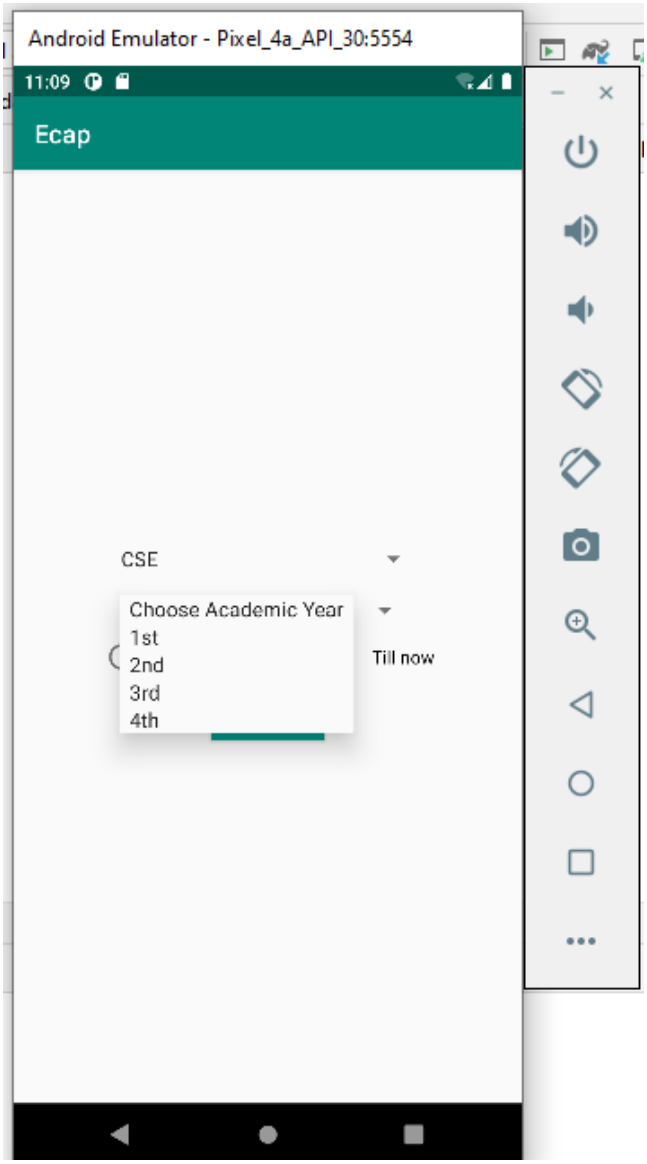


**Figure 10: Selecting Year**

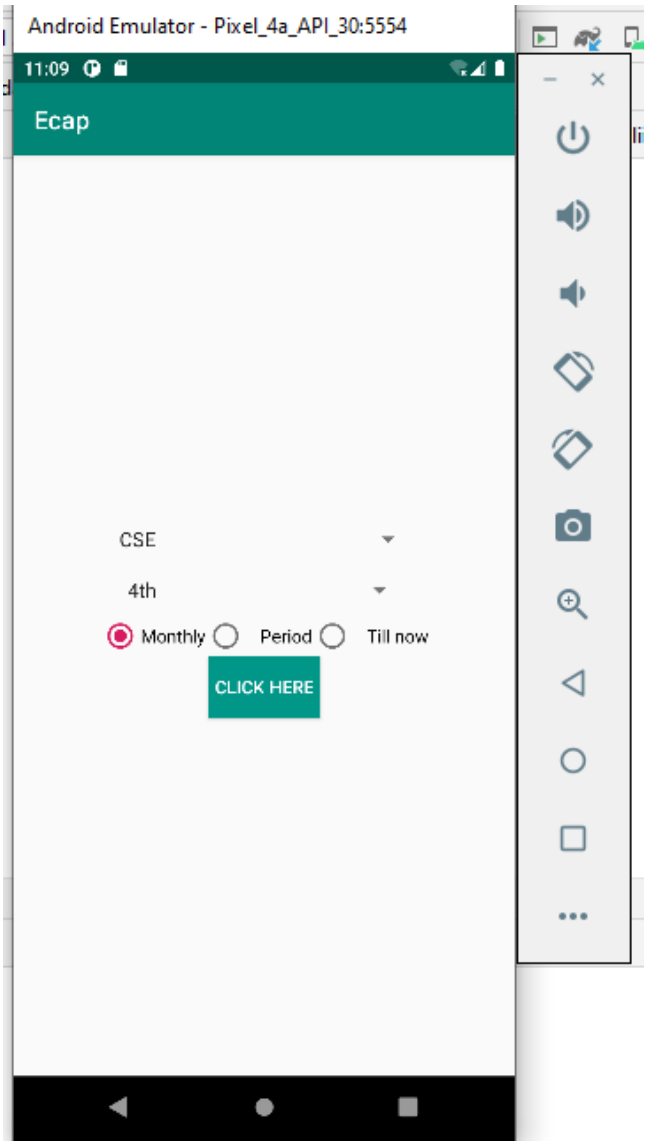


**Figure 11: Selecting Type**

## 7. PLAN FOR STAGE-II

- Completing all the services for Student, Faculty, Admin and Librarian.
- Design User Interface

## 8. REFERENCES


- Shilpi, Taneja., Goel, Anita. (2015). Mobile Applications in Educational Institutions. Computational Intelligence Communication Technology (CICT), 2015 IEEE International Conference on. IEEE, 2015.
- Ankit Bansal 1,Ajit Rana 2,Akhil Bansod 3,Prafulla Baviskar 4, Mobile based campus Information Retrieval Android Application, in IJCSMC, Vol.4, Issue.3,March 2015
- Nikhlil Jadhav1 , Bhupesh Singh2 , Kunal Lunge3 , Gopi Mali 4 , Nilesh Patil, Android Application for College Management System, in IJESC Volume 6 Issue No. 12 , 2016.