

A Project Report on

Attendance Management System

Submitted by

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Under the guidance of

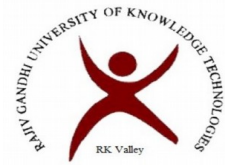
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CERTIFICATE

This is to certify that the project work titled “ATTENDANCE MANAGEMENT SYSTEM” is a bonafied project work submitted by V.Sindhu,R. Vinodhini,B.Pavani in the department of COMPUTER SCIENCE AND ENGINEERING in partial fulfillment of requirements for the award of degree of Bachelor of Technology in Computer science and engineering for the year 2020-2021 carried out the work under the supervision

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Head of the department

Harinadha

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ABSTRACT

Over the years the manual attendance management has been carried across most of educational institutions. To overcome the problems of manual attendance we have developed **“ATTENDANCE MANAGEMENT SYSTEM”** .It can be implimented on any android phone.In this application we have used XML and JAVA to develop the application.

Student attendance management system deal with the maintenance of the student’s attendance details. It generates the attendance of the students on the basis of presence in class. It is maintaining daily basis of attendance, the staff will be provide with the separate username and password to mark student attendance.

The staff handling the particular subject to responsible to make the attendance for all students. Only if the student presents in the particular date, the attendance will be calculated. Here once the student attendance is marked no further modifications are performed it will generate consistant and accurate attendance result. Only admin and faculty have access to update attendance.

1.INTRODUCTION

1.1 Problem Description

Attendance Management System is a software developed for daily student attendance in schools, colleges and institutions, It facilitates to access the attendance information of a particular student in a particular class. The Information is sorted by operators, which will be provided by the teacher for a particular class. This system will also help in evaluating attendance eligibility criteria of a student.

1.2 Proposed Solution

The purpose of developing attendance management system is to computerized the tradition way of taking attendance. Another purpose of developing the software is to generate the report automatically at the end of the session or in between of the session .

1.3 Assumptions and Abbereviations

We Assume that the officer do all the data entry based on the correct values obtained from forms and registers. We assume that the computers that will use the software will be part of the college LAN. Faculty and administrator access should be careful in deleting or modifying any information knowingly or unknowingly which will be lead to inconsistency of the database. The end user of this application are assumed to have basic level of android application knowledge i.e., point and click.

1.4 Purpose

An attendance management system refers to an organization's approach for tracking students attendance information. An accurate attendance helps the administration to save time and effort in calculating students accurate attendance report.

1.5 Advantages

- No further modification after updating the details.
- Easy and reliable data saving.
- It can run even if the internet not connected.
- It reduces the manual work and gives consisten attendance results to the admin.
- Application easy to install and use.

1.6 Disadvantage

- Software is ineffective if there is no power supply.
- Difficult to maintain and repair

2.Requirement Specification

2.1 Hardware Configuration :

App Storage :- 2.42MB

RAM :- 240MB

Processor :- 1.0GHz

2.2 Software Configurations :

Technologies used :- Java & xml

Web Browser :- Google chrome,firefox or any compatible browser

Operating System :- Ubuntu,Windows or any equivalent OS

Software :- Android studio

Android Studio:-

- Official Integrated Development Environment(IDE).
- It is announced on 16 th May 2013 at the Google I/O conference.
- It supports Java & Kotlin.
- It has a flexible and fast and feature rich emulator.
- It contains modules with resource files and source files.
- Modules contains folders like manifests,java,res.

2.3 Functional Requirements :

Attendance Management System involves the following functions -

- Record the attendance of students
- Register a new Student / Faculty
- Easily track attendance information of students

- Quickly produce attendance of the students
- Update the attendance of the students
- View the consolidated attendance result

2.4 Non-functional Requirements :

2.4.1 Performance

Easy tracking of records and updating can be done. All the requirements relating to performance characteristics of the system are specified below-

- The number of users may vary, as this software finds applications in almost all department of the organization.
- It allows admin to execute the application typically.

2.4.2 Reliability

The application is trustworthy and performing well which the result of a measurement, or specification can be depended on to be accurate

2.4.3 Availability

The software will be available only to authorized users of the colleges like teachers to make the students attendance and admin to add faculty and students and view the attendance marked by the faculty.

2.4.4 Security

The security requirements deal with the primary security. The software should be handled only by the administrator and authorized users. Only the administrator has right to assign permission like creating new account and generating password. Only authorized users can access the system with user name and password.

3.Feasibility study

3.1 Economical Feasibility

The System being developed is economic with respect to school or college's point of view. It is cost effective in the sense that has eliminated the paper work completely. The system is also time effective because the calculations are automated. The result obtained contains minimum errors and are highly accurate as the data is required.

3.2 Technical Feasibility

The Technical Requirement for the system is economic and it does not use any other additional hardware and software

3.3 Behavioral Feasibility

The System working is quite easy to use and learn due to its simple but attractive interface. User requires no special training for operating the system.

4. DESIGN

Design is the first step in the development phase for any techniques and principles for the purpose of defining a device, a process or system in sufficient detail to permit its physical realization. Once the software requirements have been analyzed and specified the software design involves three technical activities - design, coding, implementation and testing that are required to build and verify the software.

The design activities are of main importance in this phase, because in this activity, decisions ultimately affecting the success of the software implementation and its ease of maintenance are made.

These decisions have the final bearing upon reliability and maintainability of the system. Design is the only way to accurately translate the customer's requirements into finished software or a system.

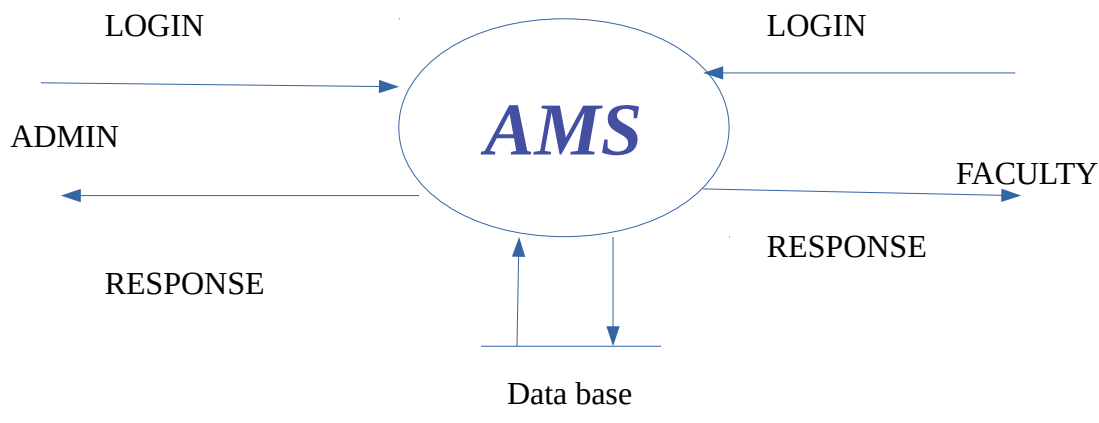
Design is the place where quality is fostered in development. Software design is a process through which requirements are translated into a representation of software. Software design is conducted in two steps. Preliminary design is concerned with the transformation of requirements into data.

DATA FLOW DIAGRAM (Level 0) :

A data flow diagram can dive into progressively more detail by using levels and layers, zeoing in on a particular piece. DFD levels are numbered 0,1 or 2 and occasionally go to even level 3 or beyond.

DFD level 0 is also called a Context Diagram. It's basic overview of the whole system or process being analyzed or modeled. It's designed to be an at-a-glance view, showing the system as a single high level process, with its relationship to external entities.

DFD LEVEL 0:

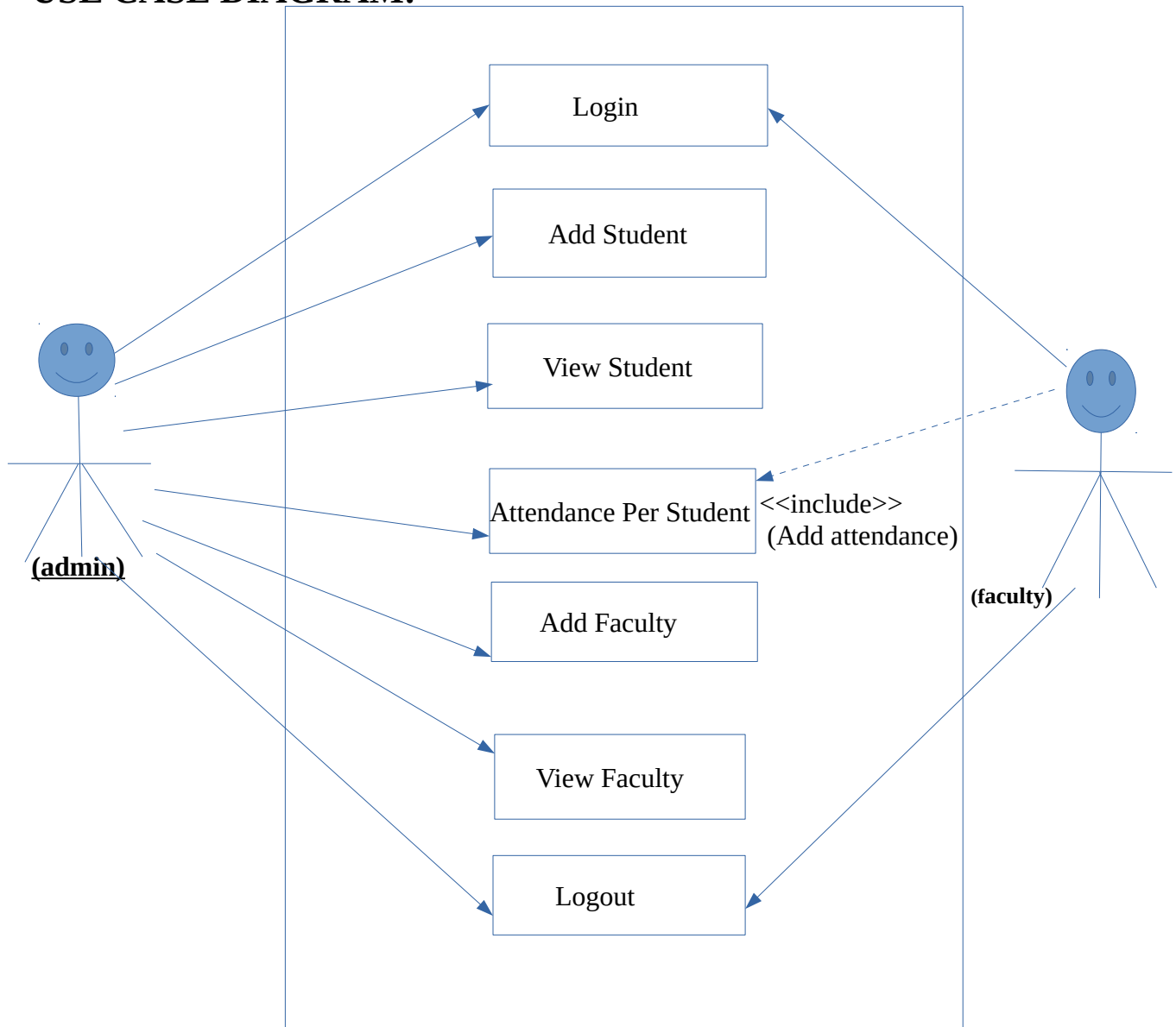


USECASE DIAGRAM:

A Use case is a description of set of sequence of actions. Graphically it is rendered as an ellipse with solid line including only its name. Use case diagram is a behavioral diagram that shows a set of use can and actors and their relationship.

It is an association between the use cases and actors. An actor represents a real world object. PrimaryActor – Sender, Secondary Actor Receiver.

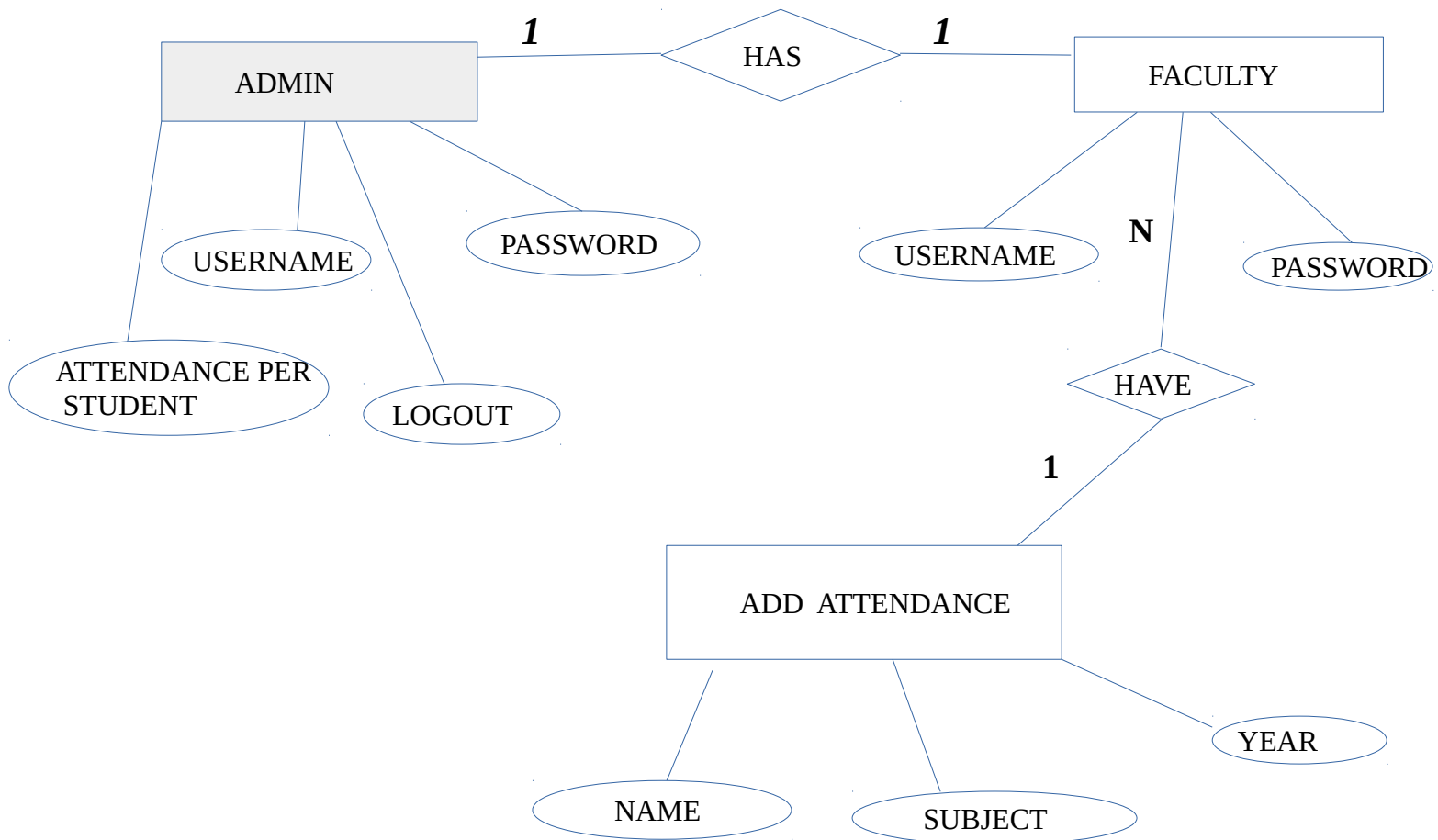
USE CASE DIAGRAM:



ENTITY RELATIONSHIP DIAGRAM(ER):

An ER visualizes the relationships between entities like people, things, or concepts in a database. An ER will also often visualize the attributes of these entities. An ER diagram can illustrate the logical structure of databases. This is useful for engineers hoping to either document a database as it exists or sketch out a design of a new database.

ER DIAGRAM:



CODING:

ATTENDANCE MANAGEMENT SYSTEM

LOGIN SOURCE CODE:

```
package com.android.attendance.activity;
import android.app.Activity;
import android.content.Intent;
import android.graphics.Color;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;
import com.android.attendance.bean.FacultyBean;
import com.android.attendance.context.ApplicationContext;
import com.android.attendance.db.DBAdapter;
import com.example.androidattendancesystem.R;
public class LoginActivity extends Activity {

    Button login;
    EditText username,password;
    Spinner spinnerloginas;
    String userrole;
    private String[] userRoleString = new String[] { "admin", "faculty"};
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.login);
        login =(Button)findViewById(R.id.buttonlogin);
        username=(EditText)findViewById(R.id.editTextusername);
        password=(EditText)findViewById(R.id.editTextpassword);
        spinnerloginas=(Spinner)findViewById(R.id.spinnerloginas);
        spinnerloginas.setOnItemClickListener(new OnItemClickListener()
        {
            @Override
            public void onItemClick(AdapterView<?> arg0, View view,
                int arg2, long arg3) {
                ((TextView) arg0.getChildAt(0)).setTextColor(Color.WHITE);
                userrole =(String) spinnerloginas.getSelectedItem();
            }
            @Override
            public void onNothingSelected(AdapterView<?> arg0) {
            }
        });
        ArrayAdapter<String> adapter_role = new ArrayAdapter<String>(this,
            android.R.layout.simple_spinner_item, userRoleString);
        adapter_role
            .setDropDownViewResource(android.R.layout.simple_spinner_dropdown_ite
m);
    }
}
```

```

spinnerloginas.setAdapter(adapter_role);
login.setOnClickListener(new OnClickListener() {
    @Override
    public void onClick(View v) {
        if(userrole.equals("admin"))
        {
            String user_name = username.getText().toString();
            String pass_word = password.getText().toString();
            if (TextUtils.isEmpty(user_name))
            {
                username.setError("Invalid User Name");
            }
            else if(TextUtils.isEmpty(pass_word))
            {
                password.setError("enter password");
            }
            else
            {
                if(user_name.equals("sindhu") & pass_word.equals("sin")){
                    Intent intent =new
Intent(LoginActivity.this,MenuActivity.class);
                    startActivity(intent);
                    Toast.makeText(getApplicationContext(), "Login
successful", Toast.LENGTH_SHORT).show();
                }else{
                    Toast.makeText(getApplicationContext(), "Login
failed", Toast.LENGTH_SHORT).show();
                }
            }
        }
        else
        {
            String user_name = username.getText().toString();
            String pass_word = password.getText().toString();

            if (TextUtils.isEmpty(user_name))
            {
                username.setError("Invalid User Name");
            }
            else if(TextUtils.isEmpty(pass_word))
            {
                password.setError("enter password");
            }
            DBAdapter dbAdapter = new DBAdapter(LoginActivity.this);
            FacultyBean facultyBean =
dbAdapter.validateFaculty(user_name, pass_word);

            if(facultyBean!=null)
            {
                Intent intent = new
Intent(LoginActivity.this,AddAttendanceSessionActivity.class);
                startActivity(intent);

                ((ApplicationContext)LoginActivity.this(getApplicationContext()).setFaculty
Bean(facultyBean);
                Toast.makeText(getApplicationContext(), "Login
successful", Toast.LENGTH_SHORT).show();
            }
            else
            {
                Toast.makeText(getApplicationContext(), "Login failed",

```

```

Toast.LENGTH_SHORT).show();
    }
}
});
}
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}
}

```

LOGIN ACITVITY XML CODE:

```

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:background="@drawable/image"
    tools:context=".MainActivity" >

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_marginLeft="82dp"
        android:layout_marginTop="43dp"
        android:text="Login"
        android:textAppearance="?android:attr/textAppearanceLarge" />

    <EditText
        android:id="@+id/editTextpassword"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView3"
        android:layout_below="@+id/textView3"
        android:layout_marginTop="15dp"
        android:background="@drawable/roundedtextview"
        android:ems="10"
        android:inputType="textPassword" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editTextusername"
        android:layout_below="@+id/editTextusername"
        android:layout_marginTop="14dp"
        android:text="Password"
        android:textAppearance="?android:attr/textAppearanceMedium" />

    <TextView
        android:id="@+id/textView2"

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editTextusername"
        android:layout_below="@+id/textView1"
        android:layout_marginTop="110dp"
        android:text="Username"
        android:textAppearance="?android:attr/textAppearanceMedium" />

<EditText
    android:id="@+id/editTextusername"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/textView2"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="20dp"
    android:background="@drawable/roundedtextview"
    android:ems="10" >

    <requestFocus />
</EditText>

<Spinner
    android:id="@+id/spinnerloginas"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignBottom="@+id/textView2"
    android:layout_alignLeft="@+id/textView2"
    android:layout_alignParentRight="true"
    android:layout_marginBottom="32dp" />

<Button
    android:id="@+id/buttonlogin"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_alignRight="@+id/spinnerloginas"
    android:layout_marginBottom="34dp"
    android:text="Login" />

```

</RelativeLayout>

ADD FACULTY ACTIVITY JAVA CODE:

```

package com.android.attendance.activity;
import com.android.attendance.bean.FacultyBean;
import com.android.attendance.db.DBAdapter;
import com.example.androidattendancesystem.R;
import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.Toast;
public class AddFacultyActivity extends Activity {
    Button registerButton;
    EditText textFirstName;

```



```

EditText textLastName;
EditText textemail;
EditText textcontact;
EditText textaddress;
EditText textusername;
EditText textpassword;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.addfaculty);
    textFirstName=(EditText)findViewById(R.id.editTextFirstName);
    textLastName=(EditText)findViewById(R.id.editTextLastName);
    textcontact=(EditText)findViewById(R.id.editTextPhone);
    textaddress=(EditText)findViewById(R.id.editTextaddr);
    textusername=(EditText)findViewById(R.id.editTextUserName);
    textpassword=(EditText)findViewById(R.id.editTextPassword);
    registerButton=(Button)findViewById(R.id.RegisterButton);
    registerButton.setOnClickListener(new OnClickListener() {
        @Override
        public void onClick(View v) {
            String first_name = textFirstName.getText().toString();
            String last_name = textLastName.getText().toString();
            String phone_no = textcontact.getText().toString();
            String address = textaddress.getText().toString();
            String userName = textusername.getText().toString();
            String passWord = textpassword.getText().toString();
            if (TextUtils.isEmpty(first_name)) {
                textFirstName.setError("please enter firstname");
            }
            else if (TextUtils.isEmpty(last_name)) {
                textLastName.setError("please enter lastname");
            }
            else if (TextUtils.isEmpty(phone_no)) {
                textcontact.setError("please enter phoneno");
            }
            else if (TextUtils.isEmpty(address)) {
                textaddress.setError("enter address");
            }
            else if (TextUtils.isEmpty(userName)) {
                textcontact.setError("please enter username");
            }
            else if (TextUtils.isEmpty(passWord)) {
                textaddress.setError("enter password");
            }
            else {
                FacultyBean facultyBean = new FacultyBean();
                facultyBean.setFaculty_firstname(first_name);
                facultyBean.setFaculty_lastname(last_name);
                facultyBean.setFaculty_mobilenumber(phone_no);
                facultyBean.setFaculty_address(address);
                facultyBean.setFaculty_username(userName);
                facultyBean.setFaculty_password(passWord);
                DBAdapter dbAdapter = new
DBAdapter(AddFacultyActivity.this);
                dbAdapter.addFaculty(facultyBean);
                Intent intent =new
Intent(AddFacultyActivity.this,MenuActivity.class);
                startActivity(intent);
                Toast.makeText(getApplicationContext(), "Faculty added
successfully", Toast.LENGTH_SHORT).show();

```

```

    }
    }
    });
}
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}
}

```

ADD FACULTY XML CODE:

```

<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/image"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin" >

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="700dp" >

        <TextView
            android:id="@+id/textViewFormName"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignParentTop="true"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="20dp"
            android:text="registration"
            android:textColor="#FFFFFF"
            android:textSize="15sp"
            android:textStyle="bold" />

        <TextView
            android:id="@+id/textViewFirstName"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignParentLeft="true"
            android:layout_below="@+id/textViewFormName"
            android:layout_marginTop="10dp"
            android:text="firstname"
            android:textColor="#FFFFFF" />

    <requestFocus />

    <EditText
        android:id="@+id/editTextFirstName"
        android:layout_width="match_parent"
        android:layout_height="25dp"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/textViewFirstName"
        android:layout_marginTop="5dp"
        android:background="@drawable/roundedtextview"
        android:ems="10"

```

```
        android:hint="firstname"
        android:inputType="textPersonName"
        android:paddingLeft="15dp" />
```

```
<TextView
    android:id="@+id/textViewLastName"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/editTextFirstName"
    android:layout_below="@+id/editTextFirstName"
    android:layout_marginTop="15dp"
    android:text="lastname"
    android:textColor="#FFFFFF" />
```

```
<EditText
    android:id="@+id/editTextLastName"
    android:layout_width="match_parent"
    android:layout_height="25dp"
    android:layout_alignLeft="@+id/textViewLastName"
    android:layout_below="@+id/textViewLastName"
    android:layout_marginTop="5dp"
    android:background="@drawable/roundedtextview"
    android:ems="10"
    android:hint="lastname"
    android:inputType="textPersonName"
    android:paddingLeft="15dp" />
```

```
<TextView
    android:id="@+id/textViewEmail"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/editTextLastName"
    android:layout_marginTop="10dp"
    android:text=""
    android:textColor="#FFFFFF" />
```

```
<EditText
    android:id="@+id/editTextPhone"
    android:layout_width="match_parent"
    android:layout_height="25dp"
    android:layout_below="@+id/textViewPhone"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="5dp"
    android:background="@drawable/roundedtextview"
    android:ems="10"
    android:hint="phone"
    android:inputType="phone"
    android:paddingLeft="15dp" />
```

```
<TextView
    android:id="@+id/textViewUserName"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/editTextPhone"
    android:layout_below="@+id/editTextPhone"
    android:layout_marginTop="15dp"
    android:text="Address"
    android:textColor="#FFFFFF" />
```

```
<Button
```

```
        android:id="@+id/Cancel_Button"
        android:layout_width="100dp"
        android:layout_height="30dp"
        android:layout_above="@+id/MessageforRegister"
        android:layout_alignParentRight="true"
        android:layout_marginRight="18dp"
        android:background="@drawable/roundedbutton"
        android:textColor="#ffffff"
        android:text="cancel" />
```

<Button

```
        android:id="@+id/RegisterButton"
        android:layout_width="100dp"
        android:layout_height="30dp"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/editTextPassword"
        android:layout_marginLeft="26dp"
        android:layout_marginTop="51dp"
        android:textColor="#ffffff"
        android:background="@drawable/roundedbutton"
        android:text="submit" />
```

<TextView

```
        android:id="@+id/MessageforRegister"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/RegisterButton"
        android:layout_marginTop="54dp"
        android:layout_toRightOf="@+id/textViewUserName"
        android:text=""
        android:textColor="#FFFFFF" />
```

<EditText

```
        android:id="@+id/editTextPassword"
        android:layout_width="match_parent"
        android:layout_height="25dp"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/textViewPassword"
        android:background="@drawable/roundedtextview"
        android:ems="10"
        android:hint="password"
        android:inputType="textPassword"
        android:paddingLeft="15dp" />
```

<EditText

```
        android:id="@+id/editTextUserName"
        android:layout_width="match_parent"
        android:layout_height="25dp"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/textViewUserName"
        android:layout_marginTop="59dp"
        android:background="@drawable/roundedtextview"
        android:ems="10"
        android:hint="username"
        android:inputType="textPersonName"
        android:paddingLeft="15dp" />
```

<TextView

```
        android:id="@+id/textViewPassword"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

```

        android:layout_alignParentLeft="true"
        android:layout_below="@+id/editTextUserName"
        android:layout_marginTop="14dp"
        android:text="password"
        android:textColor="#FFFFFF" />

<EditText
    android:id="@+id/editTextaddr"
    android:layout_width="match_parent"
    android:layout_height="25dp"
    android:layout_alignParentRight="true"
    android:layout_below="@+id/textViewUserName"
    android:background="@drawable/roundedtextview"
    android:hint="address"
    android:ems="10" />

<TextView
    android:id="@+id/textViewPhone"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignBaseline="@+id/textViewEmail"
    android:layout_alignBottom="@+id/textViewEmail"
    android:layout_alignRight="@+id/textViewPassword"
    android:text="Mobilenº"
    android:textColor="#FFFFFF" />

<TextView
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/editTextaddr"
    android:layout_marginTop="18dp"
    android:text="Username"
    android:textAppearance="?android:attr/textAppearanceSmall"
    android:textColor="#ffffff" />

</RelativeLayout>

</ScrollView>

```

ADD STUDENT XML CODE:

```

<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/image"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin" >

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="700dp" >

        <TextView
            android:id="@+id/textViewFormName"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignParentTop="true"

```

```

        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:text="registration"
        android:textColor="#FFFFFF"
        android:textSize="15sp"
        android:textStyle="bold" />

<TextView
    android:id="@+id/textViewFirstName"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/textViewFormName"
    android:layout_marginTop="10dp"
    android:text="firstname"
    android:textColor="#FFFFFF" />

<requestFocus />

<EditText
    android:id="@+id/editTextFirstName"
    android:layout_width="match_parent"
    android:layout_height="25dp"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/textViewFirstName"
    android:layout_marginTop="5dp"
    android:background="@drawable/roundedtextview"
    android:ems="10"
    android:hint="firstname"
    android:inputType="textPersonName"
    android:paddingLeft="15dp" />

<TextView
    android:id="@+id/textViewLastName"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/editTextFirstName"
    android:layout_below="@+id/editTextFirstName"
    android:layout_marginTop="15dp"
    android:text="lastname"
    android:textColor="#FFFFFF" />

<EditText
    android:id="@+id/editTextLastName"
    android:layout_width="match_parent"
    android:layout_height="25dp"
    android:layout_alignLeft="@+id/textViewLastName"
    android:layout_below="@+id/textViewLastName"
    android:layout_marginTop="5dp"
    android:background="@drawable/roundedtextview"
    android:ems="10"
    android:hint="lastname"
    android:inputType="textPersonName"
    android:paddingLeft="15dp" />

<TextView
    android:id="@+id/textViewPhone"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/editTextLastName"
    android:layout_marginTop="15dp"

```

```

        android:text="Contact"
        android:textColor="#FFFFFF" />

<EditText
    android:id="@+id/editTextPhone"
    android:layout_width="match_parent"
    android:layout_height="25dp"
    android:layout_below="@+id/textViewPhone"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="5dp"
    android:background="@drawable/roundedtextview"
    android:ems="10"
    android:hint="phone"
    android:inputType="phone"
    android:paddingLeft="15dp" />

<TextView
    android:id="@+id/textViewUserName"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/editTextPhone"
    android:layout_below="@+id/editTextPhone"
    android:layout_marginTop="15dp"
    android:text="Address"
    android:textColor="#FFFFFF" />

<Button
    android:id="@+id/Cancel_Button"
    android:layout_width="100dp"
    android:layout_height="30dp"
    android:layout_above="@+id/MessageforRegister"
    android:layout_alignParentRight="true"
    android:layout_marginRight="18dp"
    android:background="@drawable/roundedbutton"
    android:text="cancle"
    android:textColor="#ffffff" />

<TextView
    android:id="@+id/MessageforRegister"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/RegisterButton"
    android:layout_marginTop="54dp"
    android:layout_toRightOf="@+id/textViewUserName"
    android:text=""
    android:textColor="#FFFFFF" />

<TextView
    android:id="@+id/textViewPassword"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/textViewUserName"
    android:layout_marginTop="14dp"
    android:text=""
    android:textColor="#FFFFFF" />

<EditText
    android:id="@+id/editTextaddr"
    android:layout_width="match_parent"
    android:layout_height="25dp"

```

```

        android:layout_alignParentRight="true"
        android:layout_below="@+id/textViewUserName"
        android:background="@drawable/roundedtextview"
        android:ems="10"
        android:hint="address" />

<TextView
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/textViewPassword"
    android:text="Select dept"
    android:textAppearance="?android:attr/textAppearanceSmall"
    android:textColor="#ffffff" />

<Spinner
    android:id="@+id/spinnerdept"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/textView1" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignRight="@+id/textView1"
    android:layout_below="@+id/spinnerdept"
    android:text="Select year"
    android:textAppearance="?android:attr/textAppearanceSmall"
    android:textColor="#ffffff" />

<Spinner
    android:id="@+id/spinneryear"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/textView2"
    android:layout_toRightOf="@+id/textViewPassword" />

<Button
    android:id="@+id/RegisterButton"
    android:layout_width="100dp"
    android:layout_height="30dp"
    android:layout_below="@+id/spinneryear"
    android:layout_marginTop="15dp"
    android:background="@drawable/roundedbutton"
    android:text="submit"
    android:textColor="#ffffff" />
</RelativeLayout>

</ScrollView>

```

ADD STUDENT JAVA CODE:

```

package com.android.attendance.activity;
import com.android.attendance.bean.StudentBean;
import com.android.attendance.db.DBAdapter;
import com.example.androidattendancesystem.R;
import android.app.Activity;
import android.content.Intent;

```



```

import android.graphics.Color;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;
public class AddStudentActivity extends Activity {
    Button registerButton;
    EditText textFirstName;
    EditText textLastName;
    EditText textcontact;
    EditText textaddress;
    Spinner spinnerbranch, spinneryear;
    String userrole, branch, year;
    private String[] branchString = new String[] { "cse" };
    private String[] yearString = new String[] { "E1", "E2", "E3", "E4" };
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.addstudent);
        spinnerbranch=(Spinner)findViewById(R.id.spinnerdept);
        spinneryear=(Spinner)findViewById(R.id.spinneryear);
        textFirstName=(EditText)findViewById(R.id.editTextFirstName);
        textLastName=(EditText)findViewById(R.id.editTextLastName);
        textcontact=(EditText)findViewById(R.id.editTextPhone);
        textaddress=(EditText)findViewById(R.id.editTextaddr);
        registerButton=(Button)findViewById(R.id.RegisterButton);
        spinnerbranch.setOnItemClickListener(new OnItemClickListener()
        {
            @Override
            public void onItemClick(AdapterView<?> arg0, View view,
                int arg2, long arg3) {
                ((TextView) arg0.getChildAt(0)).setTextColor(Color.WHITE);
                branch =(String) spinnerbranch.getSelectedItem();
            }
            @Override
            public void onNothingSelected(AdapterView<?> arg0) {
            }
        });
        ArrayAdapter<String> adapter_branch = new ArrayAdapter<String>(this,
            android.R.layout.simple_spinner_item, branchString);
        adapter_branch
            .setDropDownViewResource(android.R.layout.simple_spinner_dropdown_ite
m);
        spinnerbranch.setAdapter(adapter_branch);
        spinneryear.setOnItemClickListener(new OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> arg0, View view,
                int arg2, long arg3) {
                ((TextView) arg0.getChildAt(0)).setTextColor(Color.WHITE);
                year =(String) spinneryear.getSelectedItem();
            }
        });
    }
}

```

```

        @Override
        public void onNothingSelected(AdapterView<?> arg0) {
        }
    });
    ArrayAdapter<String> adapter_year = new ArrayAdapter<String>(this,
        android.R.layout.simple_spinner_item, yearString);
    adapter_year
        .setDropDownViewResource(android.R.layout.simple_spinner_dropdown_ite
m);
    spinneryear.setAdapter(adapter_year);
    registerButton.setOnClickListener(new OnClickListener() {
        @Override
        public void onClick(View v) {
            String first_name = textFirstName.getText().toString();
            String last_name = textLastName.getText().toString();
            String phone_no = textcontact.getText().toString();
            String address = textaddress.getText().toString();
            if (TextUtils.isEmpty(first_name)) {
                textFirstName.setError("please enter firstname");
            }
            else if (TextUtils.isEmpty(last_name)) {
                textLastName.setError("please enter lastname");
            }
            else if (TextUtils.isEmpty(phone_no)) {
                textcontact.setError("please enter phoneno");
            }
            else if (TextUtils.isEmpty(address)) {
                textaddress.setError("enter address");
            }
            else {
                StudentBean studentBean = new StudentBean();
                studentBean.setStudent_firstname(first_name);
                studentBean.setStudent_lastname(last_name);
                studentBean.setStudent_mobilenumber(phone_no);
                studentBean.setStudent_address(address);
                studentBean.setStudent_department(branch);
                studentBean.setStudent_class(year);
                DBAdapter dbAdapter= new DBAdapter(AddStudentActivity.this);
                dbAdapter.addStudent(studentBean);
                Intent intent =new
Intent(AddStudentActivity.this,MenuActivity.class);
                startActivity(intent);
                Toast.makeText(getApplicationContext(), "student added
successfully", Toast.LENGTH_SHORT).show();
            }
        }
    });
}
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}
}

```

ADD ATTENDANCE STUDENT XML CODE:

```

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"

```

```

        android:background="@drawable/image"
        android:paddingBottom="@dimen/activity_vertical_margin"
        android:paddingLeft="@dimen/activity_horizontal_margin"
        android:paddingRight="@dimen/activity_horizontal_margin"
        android:paddingTop="@dimen/activity_vertical_margin"
        tools:context=".MainActivity" >

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_marginLeft="16dp"
        android:text="Select dept"
        android:textAppearance="?android:attr/textAppearanceSmall" />

    <Spinner
        android:id="@+id/spinner1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_marginLeft="56dp"
        android:layout_marginTop="34dp"
        android:layout_toRightOf="@+id/textView1" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/spinner1"
        android:layout_marginTop="34dp"
        android:layout_toLeftOf="@+id/spinner1"
        android:text="Select year"
        android:textAppearance="?android:attr/textAppearanceSmall" />

    <Spinner
        android:id="@+id/spinnerSE"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/spinneryear"
        android:layout_below="@+id/spinneryear" />

    <Spinner
        android:id="@+id/spinneryear"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/spinner1"
        android:layout_below="@+id/spinner1" />

    <EditText
        android:id="@+id/DateEditText"
        android:layout_width="150dp"
        android:layout_height="wrap_content"
        android:layout_alignTop="@+id/DateImageButton"
        android:layout_toLeftOf="@+id/spinnerSE"
        android:background="#ffffff"
        android:editable="false"
        android:ems="10" >

        <requestFocus />
    </EditText>

```

```

<ImageButton
    android:id="@+id/DateImageButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/spinnerSE"
    android:layout_below="@+id/spinnerSE"
    android:layout_marginLeft="14dp"
    android:layout_marginTop="22dp"
    android:cropToPadding="true"
    android:src="@drawable/calendar_icon" />

<Button
    android:id="@+id/buttonsubmit"
    style="?android:attr/buttonStyleSmall"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentRight="true"
    android:layout_below="@+id/DateImageButton"
    android:layout_marginTop="22dp"
    android:background="@drawable/roundedbutton"
    android:text="Add Attendance" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/textView2"
    android:layout_alignTop="@+id/spinnerSE"
    android:layout_marginTop="20dp"
    android:text="Subject"
    android:textAppearance="?android:attr/textAppearanceSmall" />

<Button
    android:id="@+id/viewTotalAttendanceButton"
    style="?android:attr/buttonStyleSmall"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_alignParentRight="true"
    android:background="@drawable/roundedbutton"
    android:text="View Total Attendance" />

<Button
    android:id="@+id/viewAttendancebutton"
    style="?android:attr/buttonStyleSmall"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_above="@+id/button1"
    android:layout_alignParentLeft="true"
    android:layout_marginBottom="35dp"
    android:background="@drawable/roundedbutton"
    android:text="View Attendance" />

</RelativeLayout>

```

ADD ATTENDANCE ACTIVITY STUDENT JAVA CODE:

```

package com.android.attendance.activity;
import java.util.ArrayList;
import android.app.Activity;

```

```

import android.app.Dialog;
import android.graphics.Color;
import android.os.Bundle;
import android.util.Log;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.view.Window;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.ListView;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.RadioGroup.OnCheckedChangeListener;
import com.android.attendance.bean.AttendanceBean;
import com.android.attendance.bean.StudentBean;
import com.android.attendance.context.ApplicationContext;
import com.android.attendance.db.DBAdapter;
import com.example.androidattendancesystem.R;
public class AddAttendanceActivity extends Activity {
    ArrayList<StudentBean> studentBeanList;
    private ListView listView ;
    private ArrayAdapter<String> listAdapter;
    int sessionId=0;
    String status="P";
    Button attendanceSubmit;
    DBAdapter dbAdapter = new DBAdapter(this);
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.__listview_main);
        sessionId = getIntent().getExtras().getInt("sessionId");
        listView=(ListView)findViewById(R.id.listView);
        final ArrayList<String> studentList = new ArrayList<String>();
        studentBeanList=((ApplicationContext)AddAttendanceActivity.this.getApplic
ationContext()).getStudentBeanList();
        for(StudentBean studentBean : studentBeanList)
        {
            String users = studentBean.getStudent_firstname()
+", "+studentBean.getStudent_lastname();
            studentList.add(users);
            Log.d("users: ", users);
        }
        listAdapter = new ArrayAdapter<String>(this,
R.layout.add_student_attendance, R.id.labelA, studentList);
        listView.setAdapter( listAdapter );
        listView.setOnItemClickListener(new OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> arg0, View arg1, int
arg2,
                long arg3) {
                arg0.getChildAt(arg2).setBackgroundColor(Color.TRANSPARENT);
                arg1.setBackgroundColor(334455);
                final StudentBean studentBean =
studentBeanList.get(arg2);
                final Dialog dialog = new
Dialog(AddAttendanceActivity.this);
                dialog.requestWindowFeature(Window.FEATURE_NO_TITLE);
                dialog.setContentView(R.layout.test_layout);

```

```

        RadioGroup radioGroup;
        RadioButton present;
        RadioButton absent;
        radioGroup = (RadioGroup)
dialog.findViewById(R.id.radioGroup);
present=(RadioButton)dialog.findViewById(R.id.PresentradioButton);
absent=(RadioButton)dialog.findViewById(R.id.AbsentradioButton);
        radioGroup.setOnCheckedChangeListener(new
OnCheckedChangeListener() {
    @Override
    public void onCheckedChanged(RadioGroup group, int
checkedId) {
        if(checkedId == R.id.PresentradioButton) {
            status = "P";
        } else if(checkedId == R.id.AbsentradioButton) {
            status = "A";
        } else {
        }
    }
});
        attendanceSubmit =
(Button)dialog.findViewById(R.id.attendanceSubmitButton);
        attendanceSubmit.setOnClickListener(new OnClickListener()
{
    @Override
    public void onClick(View arg0) {
        AttendanceBean attendanceBean = new
AttendanceBean();
        attendanceBean.setAttendance_session_id(sessionId);
        attendanceBean.setAttendance_student_id(studentBean.getStudent_id());
        attendanceBean.setAttendance_status(status);
        DBAdapter dbAdapter = new
DBAdapter(AddAttendanceActivity.this);
        dbAdapter.addNewAttendance(attendanceBean);
        dialog.dismiss();
    }
});
        dialog.setCancelable(true);
        dialog.show();
    }
});
}
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.main, menu);
        return true;
    }
}

```

VIEW ATTENDANCE STUDENT XML CODE:

```

<?xml version="1.0" encoding="utf-8"?>
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/labelAttendance"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:padding="10dip"
    android:textSize="16dip"
    android:textStyle="bold" >
</TextView>

```

VIEW ATTENDANCE STUDENT JAVA CODE:

```
package com.android.attendance.activity;
import com.example.androidattendancesystem.R;
import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.graphics.Color;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.AdapterView.OnItemClickListener;
public class ViewAttendanceActivity extends Activity {
    Spinner spinnerbranch, spinneryear;
    String userrole, branch, year;
    private String[] branchString = new String[] { "cse" };
    private String[] yearString = new String[] { "E1", "E2", "E3", "E4" };
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.viewstudent);
        spinnerbranch = (Spinner) findViewById(R.id.spinnerbranchView);
        spinneryear = (Spinner) findViewById(R.id.spinneryearView);
        spinnerbranch.setOnItemClickListener(new OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> arg0, View view,
                int arg2, long arg3) {
                ((TextView) arg0.getChildAt(0)).setTextColor(Color.WHITE);
                branch = (String) spinnerbranch.getSelectedItem();
            }
            @Override
            public void onNothingSelected(AdapterView<?> arg0) {
            }
        });
        ArrayAdapter<String> adapter_branch = new ArrayAdapter<String>(this,
            android.R.layout.simple_spinner_item, branchString);
        adapter_branch
            .setDropDownViewResource(android.R.layout.simple_spinner_dropdown_ite
m);
        spinnerbranch.setAdapter(adapter_branch);
        spinneryear.setOnItemClickListener(new OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> arg0, View view,
                int arg2, long arg3) {
                ((TextView) arg0.getChildAt(0)).setTextColor(Color.WHITE);
                year = (String) spinneryear.getSelectedItem();
            }
            @Override
            public void onNothingSelected(AdapterView<?> arg0) {
            }
        });
        ArrayAdapter<String> adapter_year = new ArrayAdapter<String>(this,
```



```

        android.R.layout.simple_spinner_item, yearString);
        adapter_year
        .setDropDownViewResource(android.R.layout.simple_spinner_dropdown_ite
m);
        spinneryear.setAdapter(adapter_year);
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.main, menu);
        return true;
    }
}

```

VIEW ATTENDANCE LIST PER STUDENT XML CODE:

```

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

<TextView xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/labelAttendancePerStudent"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:padding="10dip"
    android:textSize="16dip"
    android:textStyle="bold" >
</TextView>

```

VIEW ATTENDANCE LIST PER STUDENT JAVA CODE:

```

package com.android.attendance.activity;
import java.util.ArrayList;
import android.app.Activity;
import android.app.AlertDialog;
import android.content.DialogInterface;
import android.os.Bundle;
import android.util.Log;
import android.view.Menu;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;
import com.android.attendance.bean.AttendanceBean;
import com.android.attendance.bean.FacultyBean;
import com.android.attendance.bean.StudentBean;
import com.android.attendance.context.ApplicationContext;
import com.android.attendance.db.DBAdapter;
import com.example.androidattendancesystem.R;
public class ViewAttendancePerStudentActivity extends Activity {
    ArrayList<AttendanceBean> attendanceBeanList;
    private ListView listView ;
    private ArrayAdapter<String> listAdapter;
    DBAdapter dbAdapter = new DBAdapter(this);
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.__listview_main);
        listView=(ListView)findViewById(R.id.listview);
        final ArrayList<String> attendanceList = new ArrayList<String>();
        attendanceList.add("Present Count Per Student");
attendanceBeanList=((ApplicationContext)ViewAttendancePerStudentActivity.th
is.getApplicationContext()).getAttendanceBeanList();
    }
}

```



```

        for(AttendanceBean attendanceBean : attendanceBeanList)
        {
            String users = "";
            DBAdapter dbAdapter = new
DBAdapter(ViewAttendancePerStudentActivity.this);
            StudentBean studentBean
=dbAdapter.getStudentById(attendanceBean.getAttendance_student_id());
            users = attendanceBean.getAttendance_student_id()+".
"+studentBean.getStudent_firstname()+" "+studentBean.getStudent_lastname()
+"
            "+attendanceBean.getAttendance_session_id();
            attendanceList.add(users);
        }
        listAdapter = new ArrayAdapter<String>(this,
R.layout.view_attendance_list_per_student, R.id.labelAttendancePerStudent,
attendanceList);
        listView.setAdapter( listAdapter );
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.main, menu);
        return true;
    }
}

```

ATTENDANCE BEAN:

```

package com.android.attendance.bean;
public class AttendanceBean {
    private int attendance_session_id;
    private int attendance_student_id;
    private String attendance_status;
    public int getAttendance_session_id() {
        return attendance_session_id;
    }
    public void setAttendance_session_id(int attendance_session_id) {
        this.attendance_session_id = attendance_session_id;
    }
    public int getAttendance_student_id() {
        return attendance_student_id;
    }
    public void setAttendance_student_id(int attendance_student_id) {
        this.attendance_student_id = attendance_student_id;
    }
    public String getAttendance_status() {
        return attendance_status;
    }
    public void setAttendance_status(String attendance_status) {
        this.attendance_status = attendance_status;
    }
}

```

MENU.XML:

```

<menu xmlns:android="http://schemas.android.com/apk/res/android" >

    <item
        android:id="@+id/action_settings"
        android:orderInCategory="100"
        android:showAsAction="never"

```

```

        android:title="@string/action_settings"/>
</menu>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/image"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity" >

    <Button
        android:id="@+id/buttonViewstudent"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonaddstudent"
        android:background="@drawable/roundedbutton"
        android:layout_marginTop="18dp"
        android:text="View student" />

    <Button
        android:id="@+id/buttonlogout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/buttonviewfaculty"
        android:layout_alignParentBottom="true"
        android:background="@drawable/roundedbutton"
        android:text="Logout" />

    <Button
        android:id="@+id/buttonviewfaculty"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_above="@+id/buttonlogout"
        android:layout_alignLeft="@+id/buttonaddfaculty"
        android:layout_marginBottom="16dp"
        android:background="@drawable/roundedbutton"
        android:text="View faculty" />

    <Button
        android:id="@+id/buttonaddfaculty"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_above="@+id/buttonviewfaculty"
        android:layout_alignLeft="@+id/buttonViewstudent"
        android:layout_marginBottom="14dp"
        android:background="@drawable/roundedbutton"
        android:text="Add faculty" />

    <Button
        android:id="@+id/buttonaddstudent"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/buttonViewstudent"
        android:layout_alignParentTop="true"
        android:layout_marginTop="22dp"
        android:background="@drawable/roundedbutton"
        android:text="Add student" />

```

```

<Button
    android:id="@+id/attendancePerStudentButton"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@+id/buttonViewstudent"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="29dp"
    android:background="@drawable/roundedbutton"
    android:text="Attendance Per Student" />

</RelativeLayout>

```

MANU ACTIVITY JAVA CODE:

```

package com.android.attendance.activity;
import java.util.ArrayList;
import com.android.attendance.bean.AttendanceBean;
import com.android.attendance.context.ApplicationContext;
import com.android.attendance.db.DBAdapter;
import com.example.androidattendancesystem.R;
import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
public class MenuActivity extends Activity {
    Button addStudent;
    Button addFaculty;
    Button viewStudent;
    Button viewFaculty;
    Button logout;
    Button attendancePerStudent;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.menu);
        addStudent =(Button)findViewById(R.id.buttonaddstudent);
        addFaculty =(Button)findViewById(R.id.buttonaddfaculty);
        viewStudent =(Button)findViewById(R.id.buttonviewstudent);
        viewFaculty =(Button)findViewById(R.id.buttonviewfaculty);
        logout =(Button)findViewById(R.id.buttonlogout);
        addStudent.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent =new
Intent(MenuActivity.this,AddStudentActivity.class);
                startActivity(intent);
            }
        });
        addFaculty.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent =new
Intent(MenuActivity.this,AddFacultyActivity.class);
                startActivity(intent);
            }
        });
        viewFaculty.setOnClickListener(new OnClickListener() {

```

```

        @Override
        public void onClick(View v) {
            Intent intent = new
Intent(MenuActivity.this, ViewFacultyActivity.class);
            startActivity(intent);
        }
    });
    viewStudent.setOnClickListener(new OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent intent = new
Intent(MenuActivity.this, ViewStudentActivity.class);
            startActivity(intent);
        }
    });
    logout.setOnClickListener(new OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent intent = new
Intent(MenuActivity.this, MainActivity.class);
            intent.addFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP);
            startActivity(intent);
        }
    });
    attendancePerStudent=(Button)findViewById(R.id.attendancePerStudentButton);
    attendancePerStudent.setOnClickListener(new OnClickListener() {
        @Override
        public void onClick(View arg0) {
            DBAdapter dbAdapter = new DBAdapter(MenuActivity.this);
            ArrayList<AttendanceBean>
attendanceBeanList=dbAdapter.getAllAttendanceByStudent();
            ((ApplicationContext)MenuActivity.this.getApplicationContext()).setAttendan
ceBeanList(attendanceBeanList);
            Intent intent = new
Intent(MenuActivity.this, ViewAttendancePerStudentActivity.class);
            startActivity(intent);
        }
    });
}
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}
}

```

6.Implimentation and System testing

After all phase have been perfectly done, the system will be implemented to the server and the system can be used.

System Testing

The goal of the system testing process was to determine all faults in our project .The program was subjected to a set of test inputs and many explanations were made and based on these explanations it will be decided whether the program behaves as expected or not. Our Project went through two levels of testing

1. Unit testing
- 2 .Integration testing

Unit Testing

Unit testing is commenced when a unit has been created and effectively reviewed .In order to test a single module we need to provide a complete environment i.e. besides the section we would require The procedures belonging to other units that the unit under test calls Non local data structures that module accesses .A procedure to call the functions of the unit under test with appropriate parameters

1. Test for the admin module

Testing admin login form- This form is used for log in of administrator of the system. In this form we enter the username and password if both are correct administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask the details.

Report Generation: admin can generate report from the main database.

Integration Testing

In the Integration testing we test various combination of the project module by providing the input. The primary objective is to test the module interfaces in order to confirm that no errors are occurring when one module invokes the other module.

Evaluation

Home page



admin Login page

Login

admin

Username

Password

Login

Login page 1:

Login

admin

Username

admin

faculty

Password

Login

Login page 2:

Login

admin

Username

ams

Password

.....

Login

Admin logged successfully

The screenshot shows the home screen of the 'AndroidAttendanceSystem' app. At the top, the status bar shows the time 21:31 and battery level 74%. The app title 'AndroidAttendanceSystem' is displayed. Below the title, there are three buttons: 'Add student', 'View student', and 'Attendance Per Student'. At the bottom, there are three more buttons: 'Add faculty', 'Login successful' (highlighted in black), and 'Logout'.

Admin added student(with details)

The screenshot shows the 'registration' form. It contains the following fields: 'firstname' with the value 'sindhu', 'lastname' with the value 'vempuluri', 'Contact' with the value '8790705371', and 'Address' with the value 'vavilla'. Below these fields are two dropdown menus: 'Select dept' with 'cse' selected, and 'Select year' with 'E3' selected. A 'submit' button is partially visible, and a 'cancel' button is to its right.

Student added

The screenshot shows the home screen of the 'AndroidAttendanceSystem' app. It features the same buttons as the previous screenshot: 'Add student', 'View student', 'Attendance Per Student', 'Add faculty', 'student added successfully' (highlighted in black), and 'Logout'.

Student(Branch & Year)

The screenshot shows a form for selecting a student. It has two dropdown menus: 'Select branch' with 'cse' selected, and 'Select year' with 'E3' selected. Below these dropdowns is a list of student IDs: E1, E2, E3, and E4. A 'submit' button is partially visible on the right side.

Students(Added by admin)

<i>sindhu, vempuluri</i>
<i>vinodhini, ramapuram</i>
<i>pavani, Bhommaigari</i>
<i>shreya, gooru</i>

Admin added(Faculty)

registration

firstname

suneetha

lastname

mam

Mobileno

64312757879

Address

chittoor

Username

suneetha

password

....

submit

cancel

Faculty (added by admin)

FirstName: sushmitha LastName: mam
FirstName: Mahendra LastName: sir
FirstName: suneetha LastName: mam
FirstName: santhosh LastName: sir

Faculty login

Login

faculty

Username

sushmitha

Password

....

Faculty(After login Add or View attendance)

View Attendance

Select year: GSE

Subject: SE

Subject: M3

Add Attendance

Login successful

View Total Attendance

Faculty(Give present or absent to student)

sindhu, vempuluri

vinodhini, ramapuram

pavani, Bhommaigari

shreya, gooru

☒ P

☐ A

Submit

Status of student

Id	student name	Status
1.	sindhu, vempuluri	Present
2.	vinodhini, ramapuram	Present
3.	pavani, Bhommaigari	Present
4.	shreya, gooru	Absent

Date : 19 / 9 / 2022

Attendance present count

Present Count Per Student	
1.	vempuluri sindhu 6
3.	vino dhini 4
4.	vino dhini 3
5.	shreya shrey 1
7.	vinodh sir 1

Conclusion

It can be concluded from the above discussion that a reliable, secure, fast and can be implemented in academic institutes for better results regarding the management of attendance. The System will save time, reduce the amount of work the administration to do and will replace the stationary material with electronic apparatus. Hence a System with expected results has been developed but there is still some room for improvement.

References

FOR ANDROID DEVELOPMENT:

- <https://abhiandroid.com/>
- <https://www.javatpoint.com/android-tutorial>
- <https://www.geeksforgeeks.org/android-tutorial/>
- <https://developer.android.com/studio>

******* THANK YOU *******

