ATTENDANCE MANAGEMENT SYSTEM

MINI-PROJECT REPORT II
OF MINI PROJECT-II

BACHELOR OF TECHNOLOGY
COMPUTER ENGINEERING AND APPLICATIONS

SUBMITTED BY
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Declaration

I/we hereby declare that the work which is being presented in the B.Tech. mini project **"ATTENDANCE MANAGEMENT SYSTEM"**, in partial fulfillment of the requirements for the award of the ***Bachelor of Technology*** in Computer Science and Engineering and submitted to the Department of Computer Engineering and Applications of GLA University, Mathura, is an authentic record of my/our own work carried under the supervision of **Ms. Harvinder Kaur** who is **Technical Trainer** in GLA University.

The contents of this project report, in full or in parts, have not been submitted to any other Institute or University for the award of any degree.

Sign __Sumit_____

Name of Candidate: Sumit Singh
University Roll No.: 181500734

Sign __Panjal_____

Name of Candidate: Pranjal Singh
University Roll No.: 181500479

Acknowledgement

It is my pleasure to acknowledge the assistance of **Ms. Harvinder Kaur** without his guidance this project would not have been possible. First and foremost, I would like to express our gratitude to **Ms. Harvinder Kaur** My project guide, for providing invaluable Encouragement, guidance and assistance. After doing this project I can confidently say that this experience has not only enriched me with technical knowledge but also has unparsed the maturity of thought and vision. The attributes required being a successful professional.

Sign __Sumit_____

Name of Candidate: Sumit Singh
University Roll No.: 181500734

Sign __Pranjal_____

Name of Candidate: Pranjal Singh
University Roll No.: 181500479

ABSTRACT

Marking attendance in the class meeting session and recording the marks of the students are the prime tasks of the subject handlers, since marking the attendance can regulate the students to attend the classes. Moreover, it verifies number of students present in the conducted classes.

The purpose of recording the marks is to analyse the performance of the students in terms of curricular activities. Earlier, the tasks of marking attendance and recording the marks are handled manually by pen and paper method.

This method consumes more time and adds more workload to the subject handlers and sometimes the data may prone to error. To avoid these problems, this paper presents a mobile application for student attendance and mark management system. This application is mainly designed for the faculties and other staff members of the organization who maintain attendance and marks regularly. Using this system, the subject handlers, staffs or the authorities can verify the number of students present or absent in the class meeting sessions.

This application allows the users to mark attendance through mobile devices and to keep in touch with students. Furthermore, this application allows the teachers to mark and edit the attendance and also to add the marks in the system database for further retrieval. It gives a prior intimation to students as soon as their attendance goes below the specified percentage through an alert message.

Contents

1. INTRODUCTION

In current scenario, marking attendance in the class session and entering the marks of the students are the essential tasks of the subject handlers, since marking the attendance can regulate the students to attend the sessions and verify the number of students in the class. Record of marks is inevitable to analyse the performance of the students in their exams.

The management and maintenance of student information is a key task for any institution. The task of marking attendance and making entry of the exam makes are traditionally carried out manually with a log book. Later, this task is carried out by the desktop applications. The desktop application is a standalone application installed in the particular desktop or laptop and the tasks can be performed only with that particular desktop system.

The main drawback of this system is that the computer systems are not portable hence it cannot be kept anywhere to perform the task such as mark and attendance entry. The entered marks can be viewed only on the particular system if the desktop is not connected with network.

1.1 Overview and Motivation

In most educational institutions the attendance is taken manually. It is not only time consuming, but it is also unsecure and unreliable and it can be lost. Some institutions are using punch card for attendance while this will be difficult for teachers to keep track of the large number of students because by using punch card, a student can help the other students or his/her friend to punch their card even the other student may be absent or come late in class, so it is not reliable.

To overcome these problems I have developed a better system which is Web based; it is fully responsive where a user can use in mobile, tablets and different computer systems. In this system records are kept safe and secure and the attendance information of particular or all students of particular class can be accessed easily and without time consuming, the report is generated automatically.

Attendance Management System basically has two main modules for proper functioning. First module is admin which has right for creating space for new batch. Any entry of new faculty, Updating in subject if necessary, and sending notice. Second module is handled by the user which can be a faulty or an operator. User has a right of making daily attendance.

1.2 Objective

To developed and design the android-based mobile attendance application for the management of attendance records in the educational organization. To implement the new technology development system to make it digitalized ,autherized,secured one in the given web server to kept it records as many years we want to kept it for its future use as per our need.

2. SOFTWARE DESIGN:-

2.1 Requirement Analysis:-

Requirements specify a set of features that the system must have. A functional requirement is a specification of a function that the system must support, whereas a non-functional requirement is a constraint on the operation of the system that is not related directly to a function of the system.

The attendance management system to be developed is expected to facilitate the process of recording attendance through mobile phone and RFID, viewing attendance for different interval of time and be able to send the attendance information to the parents/Guardians through mobile phone. The functional requirements for the Attendance management system and Mobile application respectively.

2.2 Feasibility Analysis:-

Feasibility analysis begins once the goals are defined. It starts by generating broad possible solutions, which are possible to give an indication of what the new system should look lime. This is where creativity and imagination are used. Analysts must think up new ways of doing things- generate new ideas. There is no need to go into the detailed system operation yet. The solution should provide enough information to make reasonable estimates about project cost and give users an indication of how the new system will fit into the organization. It is important not to exert considerable effort at this stage only to find out that the project is not worthwhile or that there is a need significantly change the original goal. Feasibility of a new system means ensuring that the new system, which we are going to implement, is efficient and affordable. There are various types of feasibility to be determined. They are

2.2.1 Economically Feasibility

Development of this application is highly economically feasible. The only thing to be done is making an environment with an effective supervision. 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 which are made at the end of the month or as per the user requirement.

2.2.2 Technical feasibility

The technical requirement for the system is economic and it does not use any other additional Hardware and software. Technical evaluation must also assess whether the existing systems can be upgraded to use 6 the new technology and whether the organization has the expertise to use it. Install all upgrades framework into the .Net package supported widows based application. This application depends on Microsoft office and intranet service, database. Enter their attendance and generate report to excel sheet.

2.2.3 Operational 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. Technical performance include issues such as determining whether the system can provide the right information for the Department personnel student details, and whether the system can be organized so that it always delivers this information at the right place and on time using intranet services.

2.3 Modules Description:-

1. **Admin Module**
2. **Registration Module**
3. **Login Module**
4. **Student Module**
5. **Android Module**

2.4 Functionalities of module:-

Admin Module:

This module is used to login for administrator, it have whole rights to monitor and manage the entire project, through this module, new information can be insert, update, view and delete

Registration Module:

This module is used to register the user information and it will be store in database. The information such as name, password, date of birth, department, phone no and email id are collected. The collected details are sent to the database for the purpose of login.

Login Module:

This module is used to login for the student profile home page and will continues the other processes.

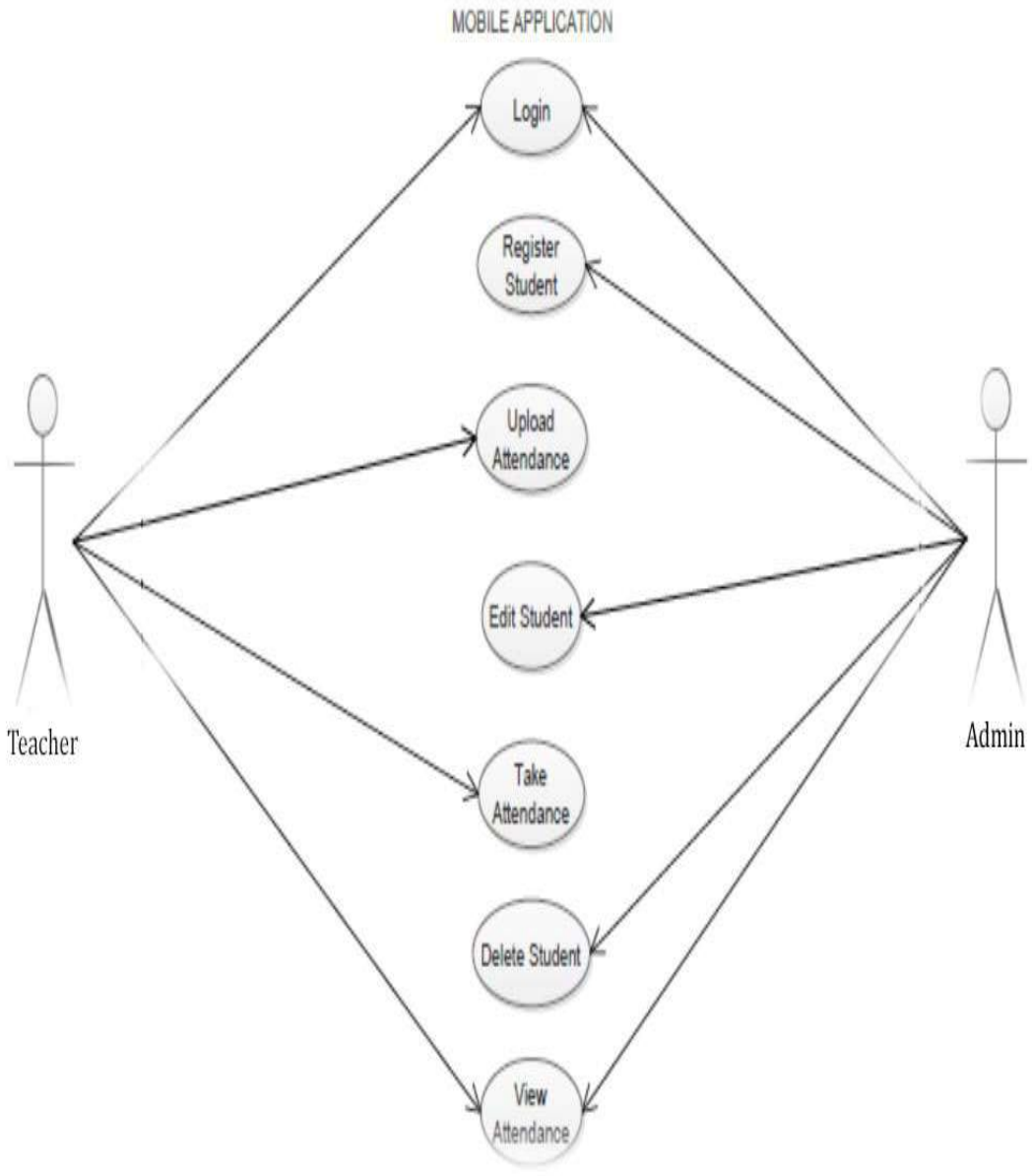
Student Module:

This module can be used for student for registration. The information such as name, reg-no, gender, course, department, e-mail, father's name, mobile no. and address are collected and the collected information is stored in the database.

Android Module:

This module can be used for receiving text messages from students about their leave

2.5 Use Case Diagram:-



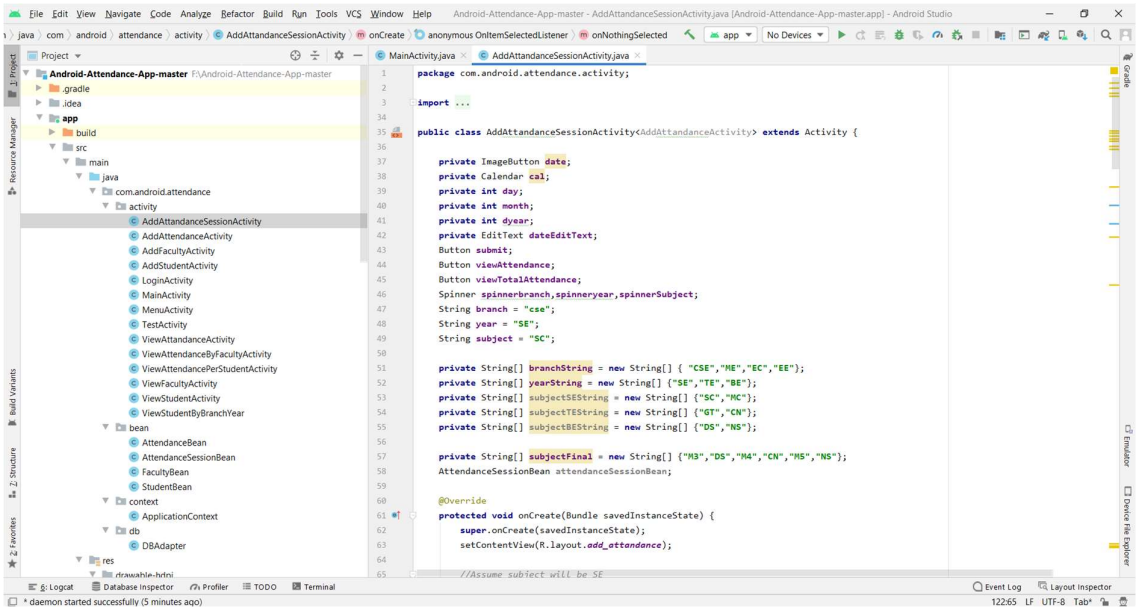
3.IMPLEMENTATION AND USER INTERFACE:-

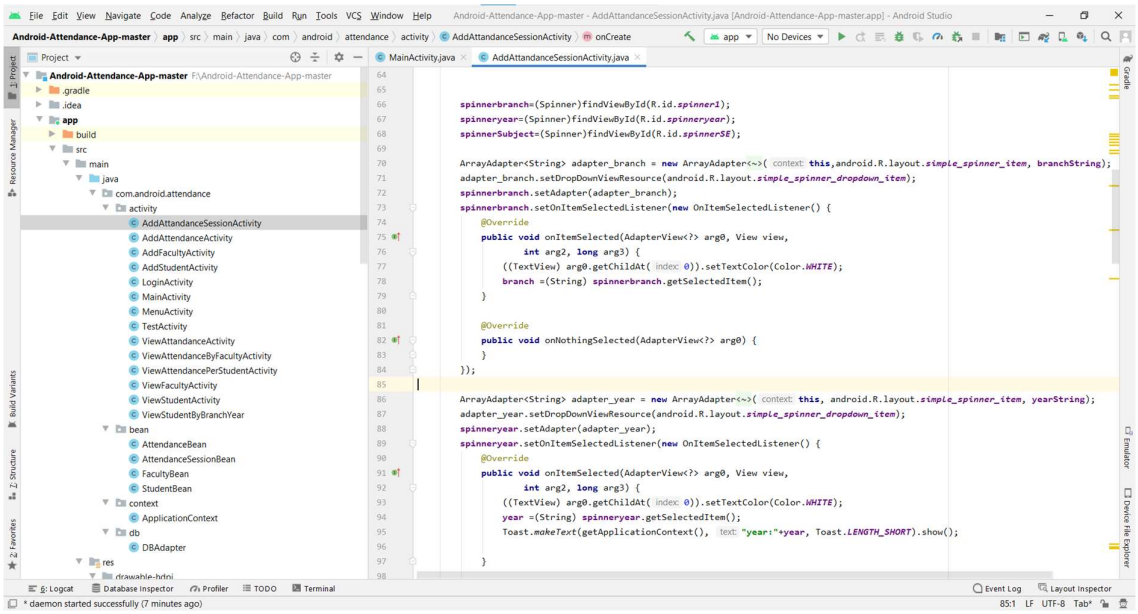
Implementation is a very important aspect of any software that you built. It explains the exact way in which your application will work. This part gives you the understanding of the way in which your application is working. Implementation is the basic content that should be added or present in any software report. It is an essential part of software.

User interface is what one is going to see or interact through your application when they are going to use it. Interface should be as simple as possible so that it can be easy to understand and use. UI is really an important part of a software on which the interaction of the user depends upon.

IMPLEMENTATION SCREENSHOT

ADD ATTENDANCE IMPLEMENTATION

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AddAttandanceSessionActivity
AddAttendanceActivity
AddFacultyActivity
AddStudentActivity
LoginActivity
MainActivity
MenuActivity
TestActivity
ViewAttandanceActivity
ViewAttendanceByFacultyActivity
ViewAttendancePerStudentActivity
ViewFacultyActivity
ViewStudentActivity
ViewStudentByBranchYear
bean
AttendanceBean
AttendanceSessionBean
FacultyBean
StudentBean
context
ApplicationContext
db
DBAdapter
res
spinnerbranch=(Spinner)findViewById(R.id.spinner1);
spinneryear=(Spinner)findViewById(R.id.spinneryear);
spinnerSubject=(Spinner)findViewById(R.id.spinnerSE);
ArrayAdapter<String> adapter_branch = new ArrayAdapter<~>(context: this,android.R.layout.simple_spinner_item, branchString);
adapter_branch.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
spinnerbranch.setAdapter(adapter_branch);
spinnerbranch.setOnItemSelectedListener(new OnItemSelectedListener() {
@Override
public void onItemSelected(AdapterView<?> arg0, View view,
int arg2, long arg3) {
((TextView) arg0.getChildAt(index: 0)).setTextColor(Color.WHITE);
branch =(String) spinnerbranch.getSelectedItem();
}
@Override
public void onNothingSelected(AdapterView<?> arg0) {
}
});
ArrayAdapter<String> adapter_year = new ArrayAdapter<~>(context: this, android.R.layout.simple_spinner_item, yearString);
adapter_year.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
spinneryear.setAdapter(adapter_year);
spinneryear.setOnItemSelectedListener(new OnItemSelectedListener() {
@Override
public void onItemSelected(AdapterView<?> arg0, View view,
int arg2, long arg3) {
((TextView) arg0.getChildAt(index: 0)).setTextColor(Color.WHITE);
year =(String) spinneryear.getSelectedItem();
Toast.makeText(getApplicationContext(), text: "year:"+year, Toast.LENGTH_SHORT).show();
}
6: Logcat
Database Inspector
Profiler
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Terminal
Event Log
Layout Inspector
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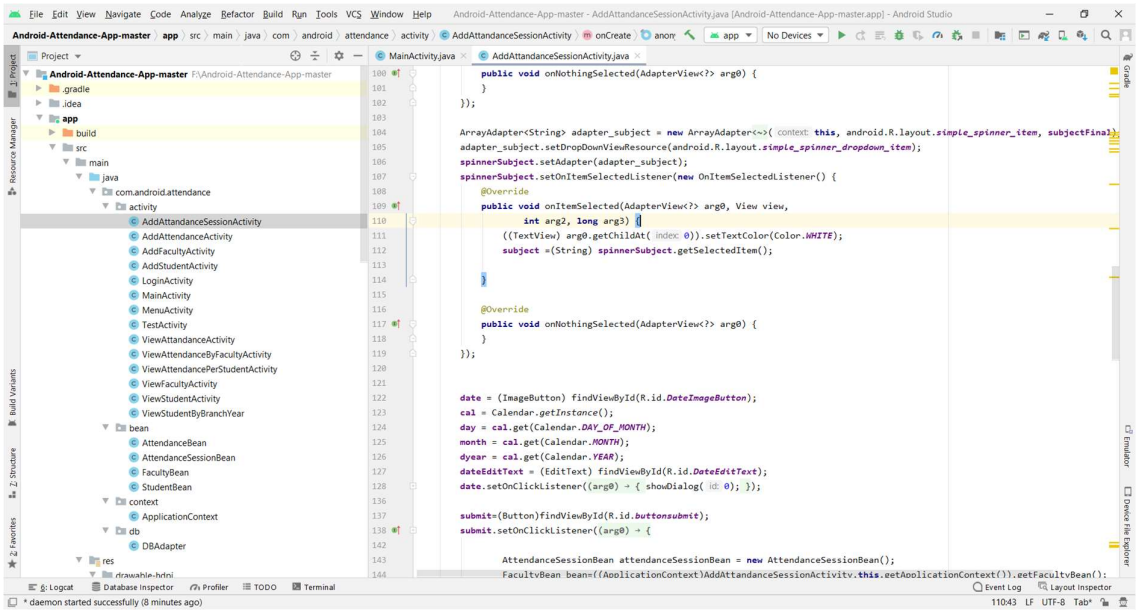
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AddFacultyActivity
AddStudentActivity
LoginActivity
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FacultyBean
StudentBean
context
ApplicationContext
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public void onNothingSelected(AdapterView<?> arg0) {
}
});
ArrayAdapter<String> adapter_subject = new ArrayAdapter<~>(context: this, android.R.layout.simple_spinner_item, subjectFinal);
adapter_subject.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
spinnerSubject.setAdapter(adapter_subject);
spinnerSubject.setOnItemSelectedListener(new OnItemSelectedListener() {
@Override
public void onItemSelected(AdapterView<?> arg0, View view,
int arg2, long arg3) {
((TextView) arg0.getChildAt(index: 0)).setTextColor(Color.WHITE);
subject =(String) spinnerSubject.getSelectedItem();
}
@Override
public void onNothingSelected(AdapterView<?> arg0) {
}
});
date = (ImageButton) findViewById(R.id.DateImageButton);
cal = Calendar.getInstance();
day = cal.get(Calendar.DAY_OF_MONTH);
month = cal.get(Calendar.MONTH);
dyear = cal.get(Calendar.YEAR);
dateEditText = (EditText) findViewById(R.id.DateEditText);
date.setOnClickListener((arg0) -> { showDialog(id: 0); });
submit=(Button)findViewById(R.id.buttonsubmit);
submit.setOnClickListener((arg0) -> {
AttendanceSessionBean attendanceSessionBean = new AttendanceSessionBean();
6: Logcat
Database Inspector
Profiler
TODO
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Event Log
Layout Inspector
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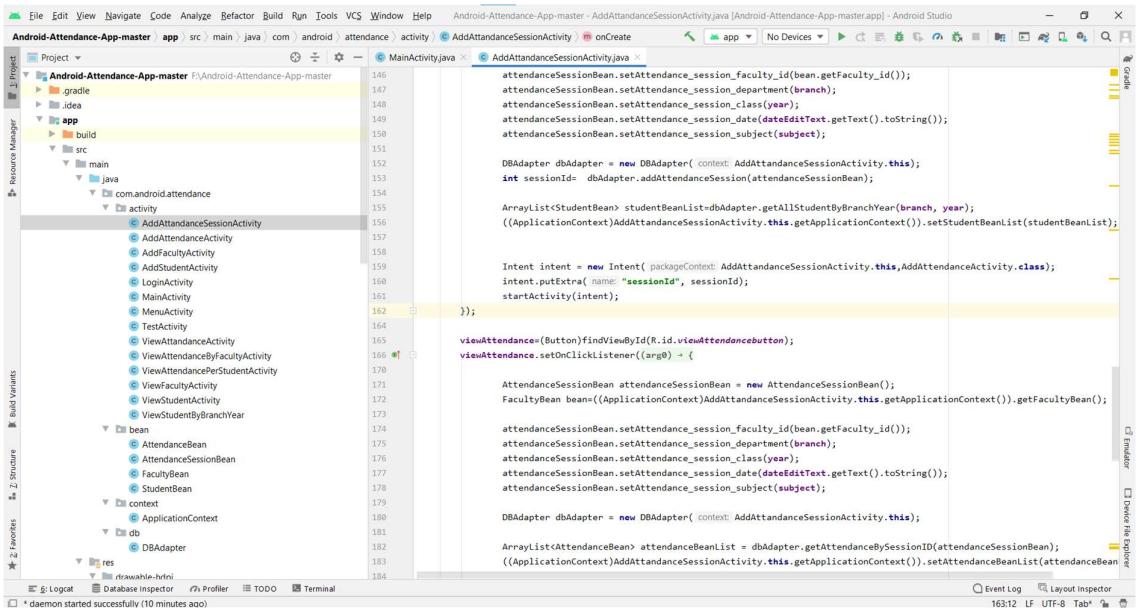
110:43 LF UTF-8 Tab*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ViewStudentActivity
ViewStudentByBranchYear
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AttendanceSessionBean
FacultyBean
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MainActivity.java
AddAttandanceSessionActivity.java
attendanceSessionBean.setAttendance_session_faculty_id(bean.getFaculty_id());
attendanceSessionBean.setAttendance_session_department(branch);
attendanceSessionBean.setAttendance_session_class(year);
attendanceSessionBean.setAttendance_session_date(dateEditText.getText().toString());
attendanceSessionBean.setAttendance_session_subject(subject);
DBAdapter dbAdapter = new DBAdapter(context: AddAttandanceSessionActivity.this);
int sessionId= dbAdapter.addAttendanceSession(attendanceSessionBean);
ArrayList<StudentBean> studentBeanList=dbAdapter.getAllStudentByBranchYear(branch, year);
((ApplicationContext)AddAttandanceSessionActivity.this.getApplicationContext()).setStudentBeanList(studentBeanList);
Intent intent = new Intent(packageContext: AddAttandanceSessionActivity.this,AddAttendanceActivity.class);
intent.putExtra(name: "sessionId", sessionId);
startActivity(intent);
});
viewAttendance=(Button)findViewById(R.id.viewAttendancebutton);
viewAttendance.setOnClickListener((arg0) → {
AttendanceSessionBean attendanceSessionBean = new AttendanceSessionBean();
FacultyBean bean=((ApplicationContext)AddAttandanceSessionActivity.this.getApplicationContext()).getFacultyBean();
attendanceSessionBean.setAttendance_session_faculty_id(bean.getFaculty_id());
attendanceSessionBean.setAttendance_session_department(branch);
attendanceSessionBean.setAttendance_session_class(year);
attendanceSessionBean.setAttendance_session_date(dateEditText.getText().toString());
attendanceSessionBean.setAttendance_session_subject(subject);
DBAdapter dbAdapter = new DBAdapter(context: AddAttandanceSessionActivity.this);
ArrayList<AttendanceBean> attendanceBeanList = dbAdapter.getAttendanceBySessionID(attendanceSessionBean);
((ApplicationContext)AddAttandanceSessionActivity.this.getApplicationContext()).setAttendanceBeanList(attendanceBean
6: Logcat
Database Inspector
Profiler
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Event Log
Layout Inspector
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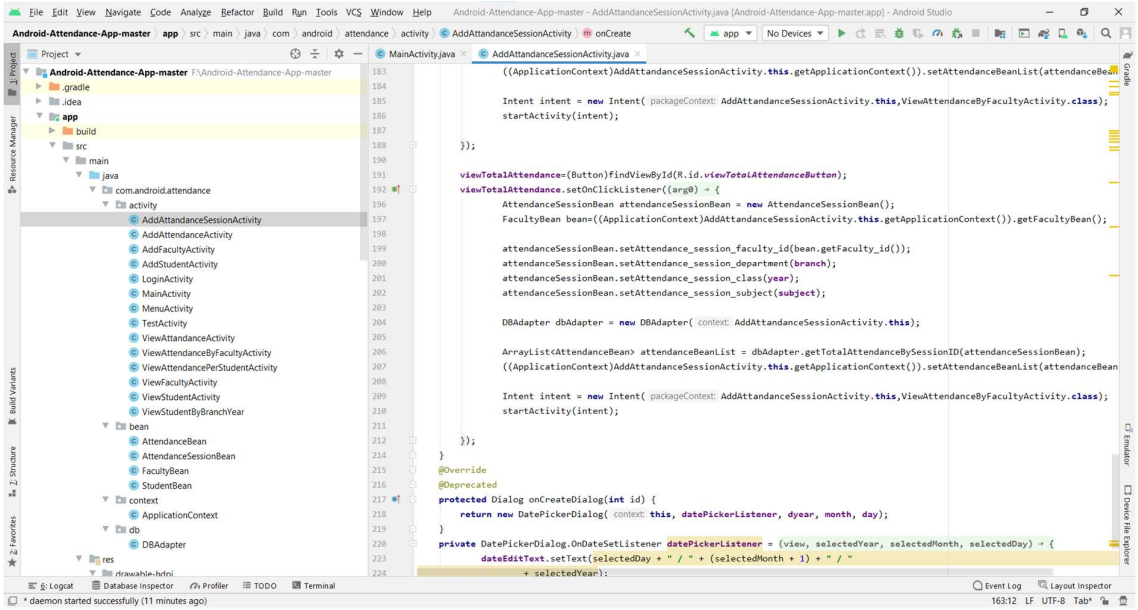
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main
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AddAttandanceSessionActivity
AddAttendanceActivity
AddFacultyActivity
AddStudentActivity
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MenuActivity
TestActivity
ViewAttandanceActivity
ViewAttendanceByFacultyActivity
ViewAttendancePerStudentActivity
ViewFacultyActivity
ViewStudentActivity
ViewStudentByBranchYear
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AttendanceBean
AttendanceSessionBean
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db
DBAdapter
res
drawable-hdpi
MainActivity.java
AddAttandanceSessionActivity.java
((ApplicationContext)AddAttandanceSessionActivity.this.getApplicationContext()).setAttendanceBeanList(attendanceBean
Intent intent = new Intent(packageContext: AddAttandanceSessionActivity.this,ViewAttendanceByFacultyActivity.class);
startActivity(intent);
});
viewTotalAttendance=(Button)findViewById(R.id.viewTotalAttendanceButton);
viewTotalAttendance.setOnClickListener((arg0) → {
AttendanceSessionBean attendanceSessionBean = new AttendanceSessionBean();
FacultyBean bean=((ApplicationContext)AddAttandanceSessionActivity.this.getApplicationContext()).getFacultyBean();
attendanceSessionBean.setAttendance_session_faculty_id(bean.getFaculty_id());
attendanceSessionBean.setAttendance_session_department(branch);
attendanceSessionBean.setAttendance_session_class(year);
attendanceSessionBean.setAttendance_session_subject(subject);
DBAdapter dbAdapter = new DBAdapter(context: AddAttandanceSessionActivity.this);
ArrayList<AttendanceBean> attendanceBeanList = dbAdapter.getTotalAttendanceBySessionID(attendanceSessionBean);
((ApplicationContext)AddAttandanceSessionActivity.this.getApplicationContext()).setAttendanceBeanList(attendanceBean
Intent intent = new Intent(packageContext: AddAttandanceSessionActivity.this,ViewAttendanceByFacultyActivity.class);
startActivity(intent);
});
}
@Override
@Deprecated
protected Dialog onCreateDialog(int id) {
return new DatePickerDialog(context: this, datePickerListener, dyear, month, day);
}
private DatePickerDialog.OnDateSetListener datePickerListener = (view, selectedYear, selectedMonth, selectedDay) → {
dateEditText.setText(selectedDay + " / " + (selectedMonth + 1) + " / "
+ selectedYear);
6: Logcat
Database Inspector
Profiler
TODO
Terminal
Event Log
Layout Inspector
* daemon started successfully (11 minutes ago)
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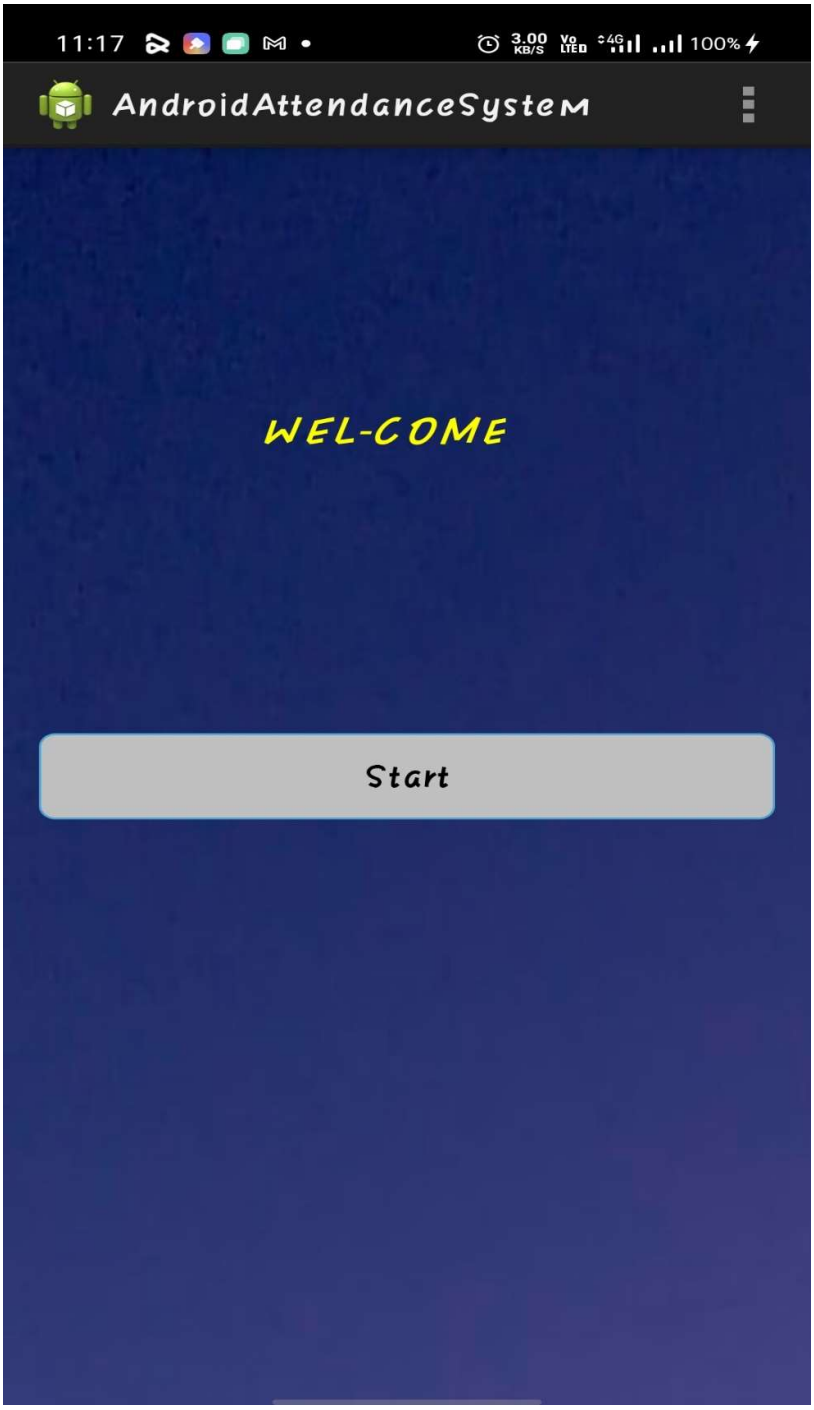
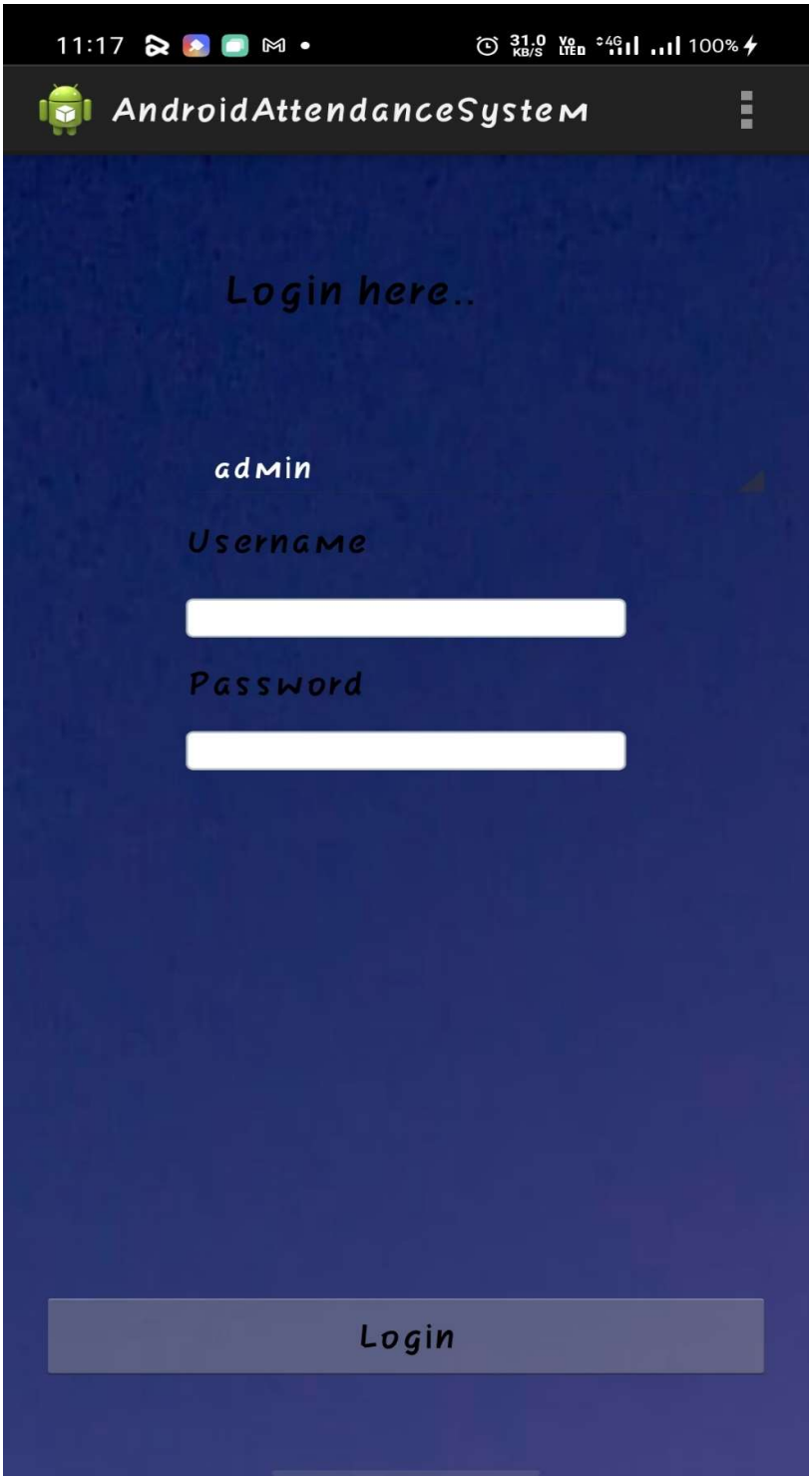
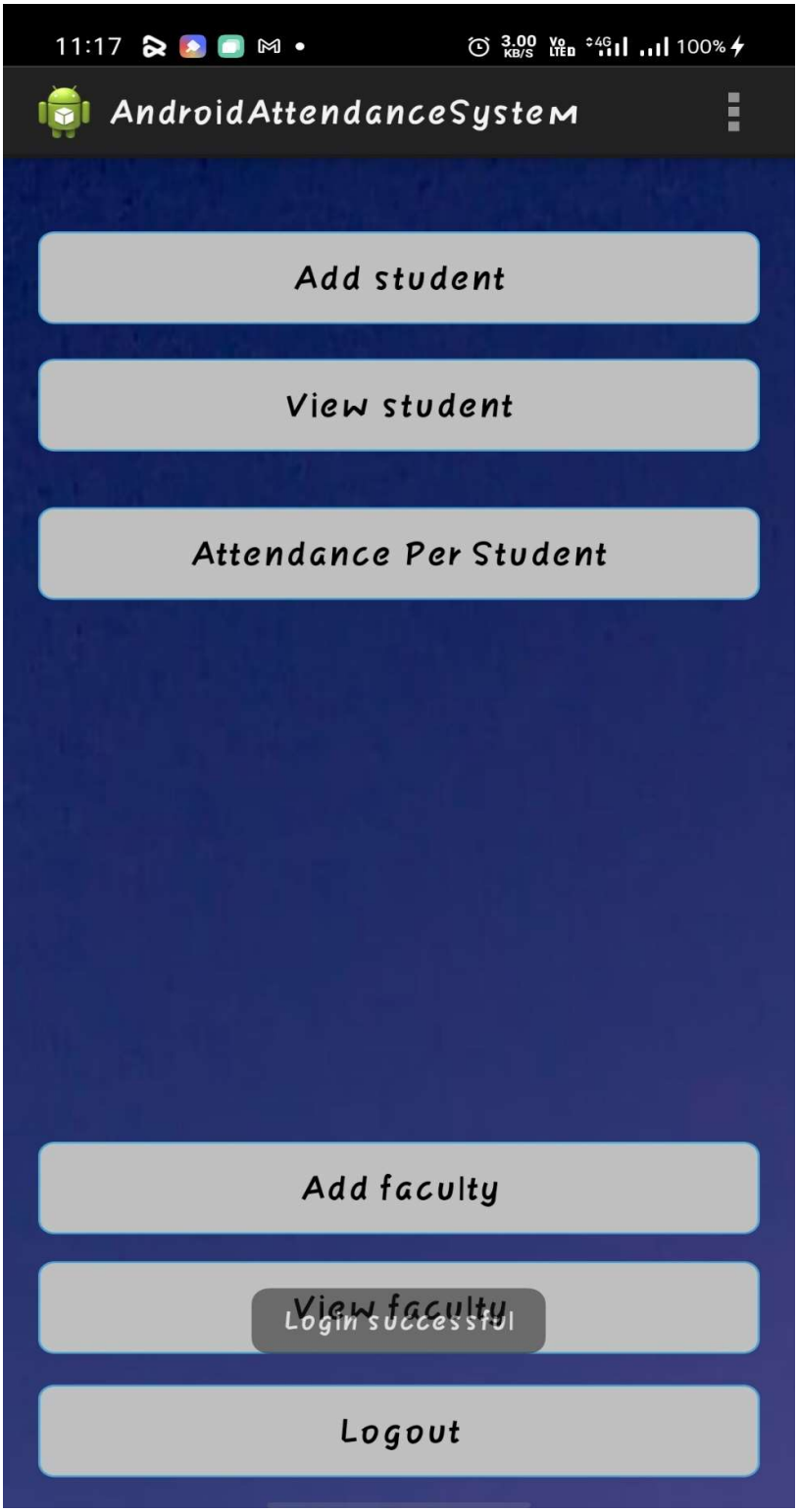
THE USER INTERFACE



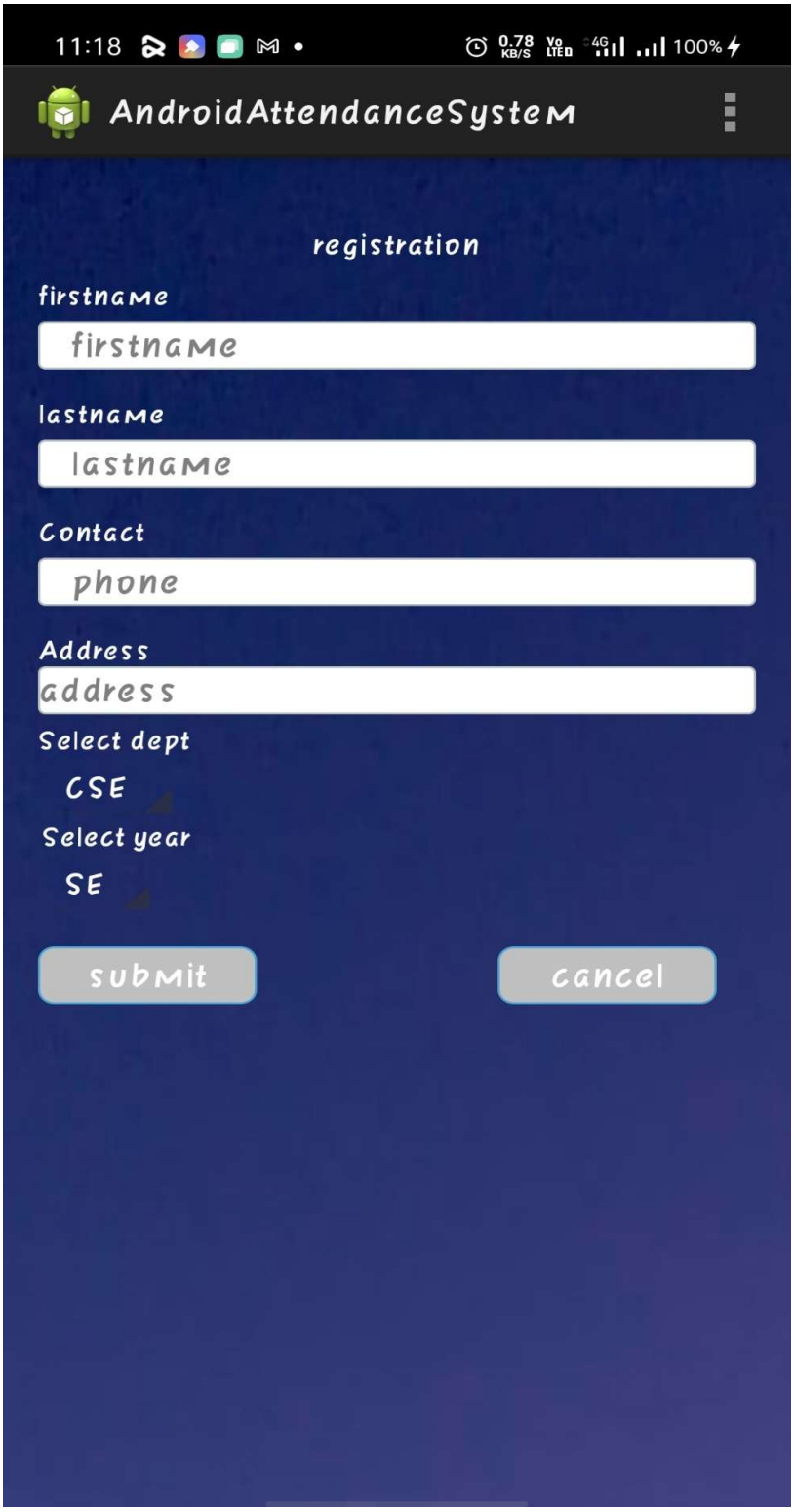
Home Screenshot



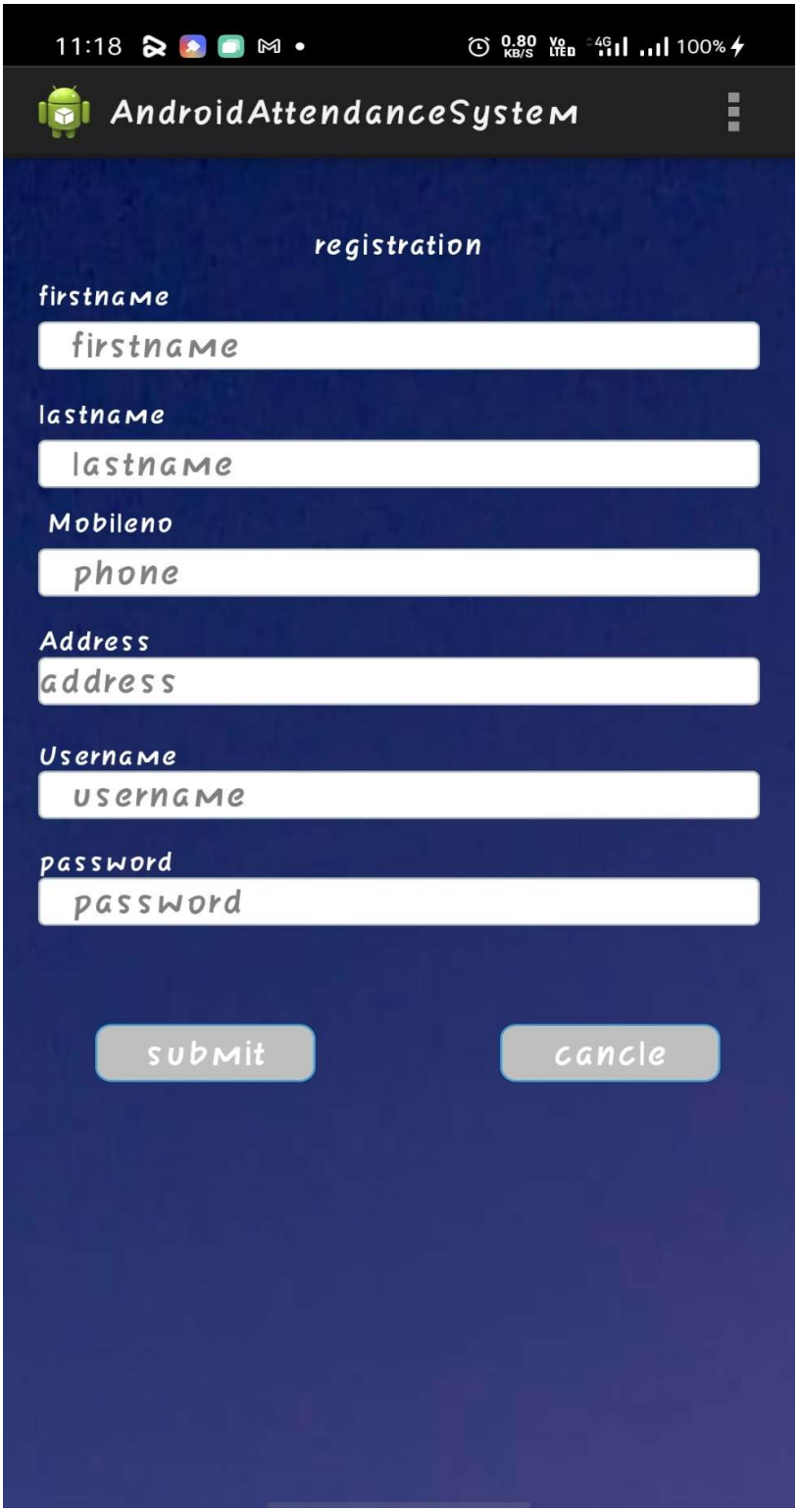
Login Screenshot



Admin Module Screenshot

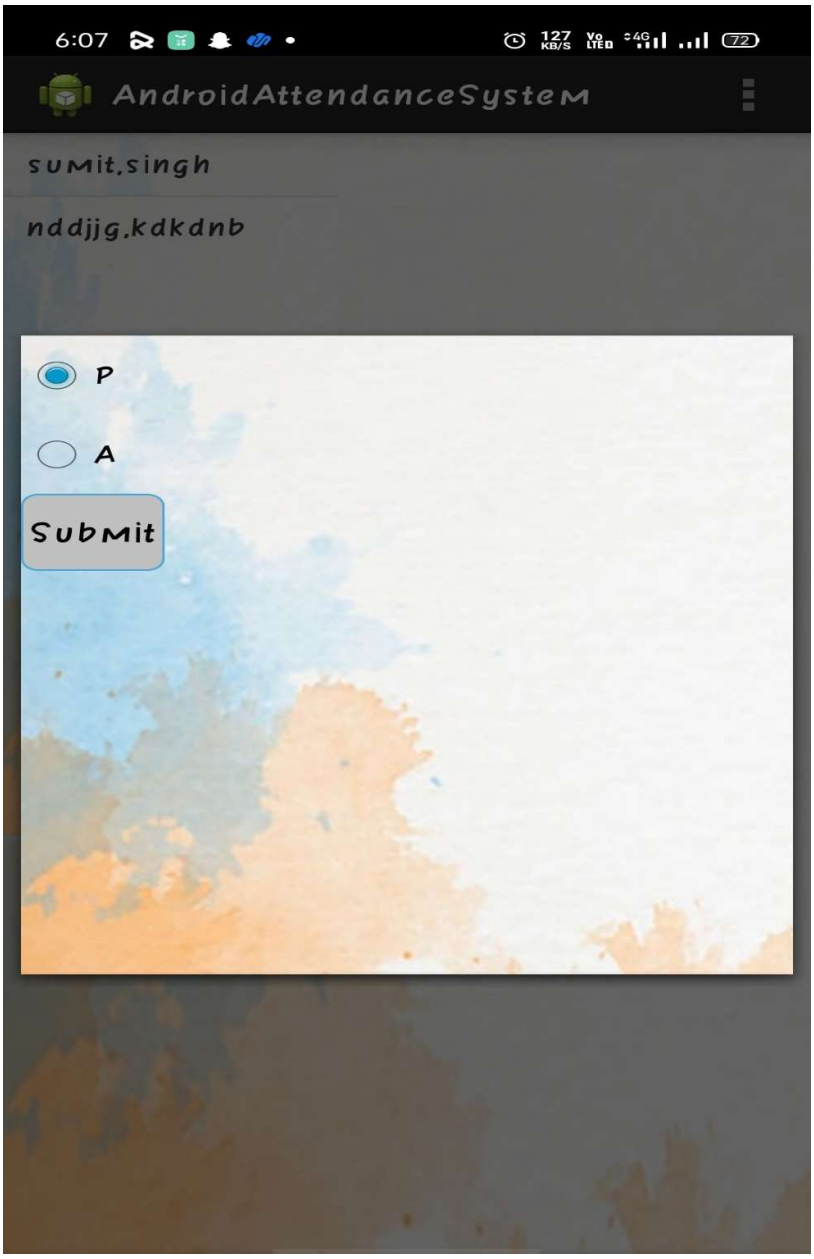


Add Student Screenshot

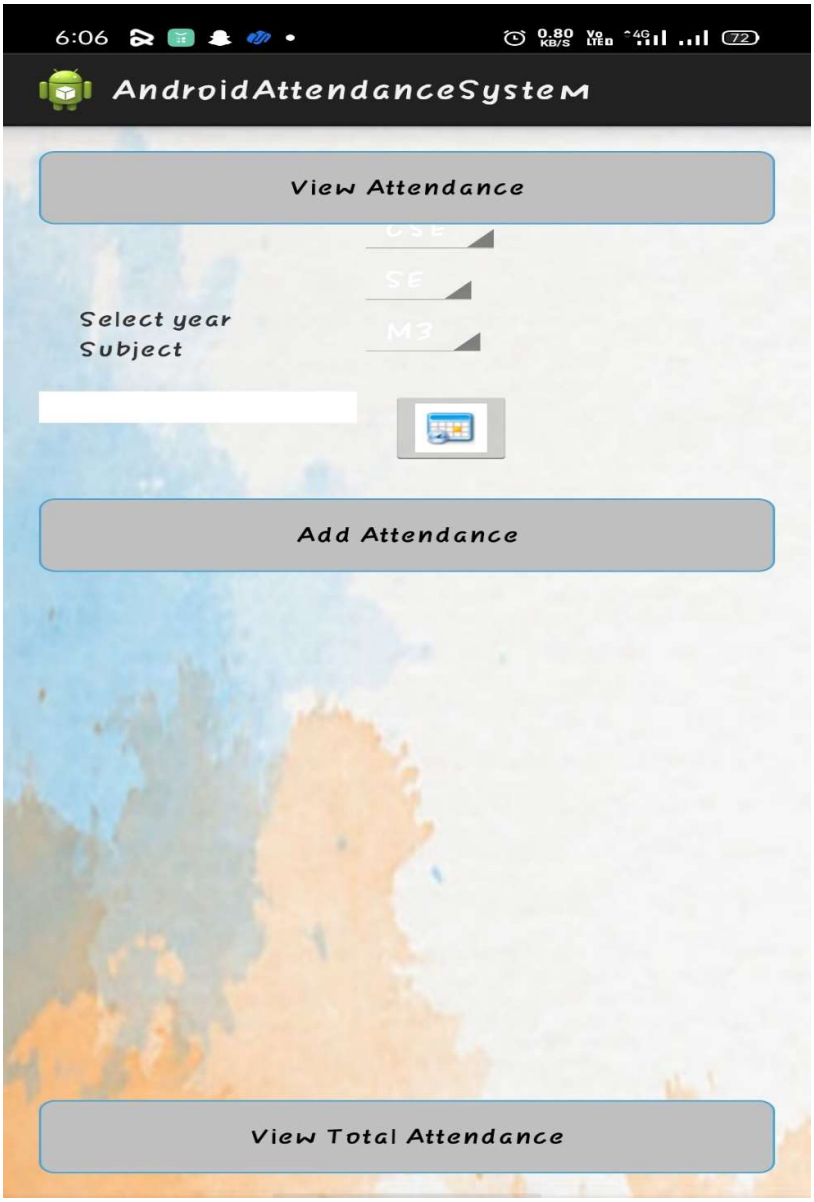


Add Faculty Screenshot

View Student Attedance



Mark Attendance



Select Date and Subject

View Student

IMPLEMENTATION CODE

AddAttendanceSessionActivity.java

```
package com.android.attendance.activity;

import java.util.ArrayList;
import java.util.Calendar;

import com.android.attendance.bean.AttendanceBean;
import com.android.attendance.bean.AttendanceSessionBean;
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;

import android.app.Activity;
import android.app.DatePickerDialog;
import android.app.Dialog;
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.OnItemSelectedListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.ImageButton;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;

public class AddAttandanceSessionActivity<AddAttandanceActivity> extends Activity
{

   private ImageButton date;
   private Calendar cal;
   private int day;
   private int month;
   private int dyear;
   private EditText dateEditText;
   Button submit;
   Button viewAttendance;
   Button viewTotalAttendance;
   Spinner spinnerbranch,spinneryear,spinnerSubject;
   String branch = "cse";
   String year = "SE";
   String subject = "SC";

   private String[] branchString = new String[] { "CSE","ME","EC","EE"};
   private String[] yearString = new String[] {"SE","TE","BE"};
```

```
    private String[] subjectSEString = new String[] {"SC","MC"};
    private String[] subjectTEString = new String[] {"GT","CN"};
    private String[] subjectBEString = new String[] {"DS","NS"};

    private String[] subjectFinal = new String[] {"M3","DS","M4","CN","M5","NS"};
    AttendanceSessionBean attendanceSessionBean;

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


        spinnerbranch=(Spinner)findViewById(R.id.spinner1);
        spinneryear=(Spinner)findViewById(R.id.spinneryear);
        spinnerSubject=(Spinner)findViewById(R.id.spinnerSE);

        ArrayAdapter<String> adapter_branch = new
ArrayAdapter<String>(this,android.R.layout.simple_spinner_item, branchString);

adapter_branch.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_it
em);
        spinnerbranch.setAdapter(adapter_branch);
        spinnerbranch.setOnItemSelectedListener(new OnItemSelectedListener() {
            @Override
            public void onItemSelected(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_year = new ArrayAdapter<String>(this,
android.R.layout.simple_spinner_item, yearString);

adapter_year.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item
);
        spinneryear.setAdapter(adapter_year);
        spinneryear.setOnItemSelectedListener(new OnItemSelectedListener() {
            @Override
            public void onItemSelected(AdapterView<?> arg0, View view,
                    int arg2, long arg3) {
                ((TextView) arg0.getChildAt(0)).setTextColor(Color.WHITE);
                year =(String) spinneryear.getSelectedItem();
                Toast.makeText(getApplicationContext(), "year:"+year,
Toast.LENGTH_SHORT).show();

            }

            @Override
            public void onNothingSelected(AdapterView<?> arg0) {
            }
        });

        ArrayAdapter<String> adapter_subject = new ArrayAdapter<String>(this,
```

```
android.R.layout.simple_spinner_item, subjectFinal);

adapter_subject.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_i
tem);
      spinnerSubject.setAdapter(adapter_subject);
      spinnerSubject.setOnItemSelectedListener(new OnItemSelectedListener() {
         @Override
         public void onItemSelected(AdapterView<?> arg0, View view,
               int arg2, long arg3) {
            ((TextView) arg0.getChildAt(0)).setTextColor(Color.WHITE);
            subject =(String) spinnerSubject.getSelectedItem();

         }

         @Override
         public void onNothingSelected(AdapterView<?> arg0) {
         }
      });


      date = (ImageButton) findViewById(R.id.DateImageButton);
      cal = Calendar.getInstance();
      day = cal.get(Calendar.DAY_OF_MONTH);
      month = cal.get(Calendar.MONTH);
      dyear = cal.get(Calendar.YEAR);
      dateEditText = (EditText) findViewById(R.id.DateEditText);
      date.setOnClickListener(new OnClickListener() {

         @Override
         public void onClick(View arg0) {
            showDialog(0);

         }
      });

      submit=(Button)findViewById(R.id.buttonsubmit);
      submit.setOnClickListener(new OnClickListener() {

         @Override
         public void onClick(View arg0) {

            AttendanceSessionBean attendanceSessionBean = new
AttendanceSessionBean();
            FacultyBean
bean=((ApplicationContext)AddAttandanceSessionActivity.this.getApplicationContext(
)).getFacultyBean();


attendanceSessionBean.setAttendance_session_faculty_id(bean.getFaculty_id());
            attendanceSessionBean.setAttendance_session_department(branch);
            attendanceSessionBean.setAttendance_session_class(year);

attendanceSessionBean.setAttendance_session_date(dateEditText.getText().toString()
);
            attendanceSessionBean.setAttendance_session_subject(subject);

            DBAdapter dbAdapter = new
DBAdapter(AddAttandanceSessionActivity.this);
            int sessionId= dbAdapter.addAttendanceSession(attendanceSessionBean);
```

```
            ArrayList<StudentBean>
studentBeanList=dbAdapter.getAllStudentByBranchYear(branch, year);

((ApplicationContext)AddAttandanceSessionActivity.this.getApplicationContext()).se
tStudentBeanList(studentBeanList);


            Intent intent = new
Intent(AddAttandanceSessionActivity.this,AddAttendanceActivity.class);
            intent.putExtra("sessionId", sessionId);
            startActivity(intent);
         }
      });

      viewAttendance=(Button)findViewById(R.id.viewAttendancebutton);
      viewAttendance.setOnClickListener(new OnClickListener() {

         @Override
         public void onClick(View arg0) {

            AttendanceSessionBean attendanceSessionBean = new
AttendanceSessionBean();
            FacultyBean
bean=((ApplicationContext)AddAttandanceSessionActivity.this.getApplicationContext(
)).getFacultyBean();


attendanceSessionBean.setAttendance_session_faculty_id(bean.getFaculty_id());
            attendanceSessionBean.setAttendance_session_department(branch);
            attendanceSessionBean.setAttendance_session_class(year);

attendanceSessionBean.setAttendance_session_date(dateEditText.getText().toString()
);
            attendanceSessionBean.setAttendance_session_subject(subject);

            DBAdapter dbAdapter = new
DBAdapter(AddAttandanceSessionActivity.this);

            ArrayList<AttendanceBean> attendanceBeanList =
dbAdapter.getAttendanceBySessionID(attendanceSessionBean);

((ApplicationContext)AddAttandanceSessionActivity.this.getApplicationContext()).se
tAttendanceBeanList(attendanceBeanList);

            Intent intent = new
Intent(AddAttandanceSessionActivity.this,ViewAttendanceByFacultyActivity.class);
            startActivity(intent);

         }
      });

      viewTotalAttendance=(Button)findViewById(R.id.viewTotalAttendanceButton);
      viewTotalAttendance.setOnClickListener(new OnClickListener() {

         @Override
         public void onClick(View arg0) {
            AttendanceSessionBean attendanceSessionBean = new
AttendanceSessionBean();
```

```
            FacultyBean
bean=((ApplicationContext)AddAttandanceSessionActivity.this.getApplicationContext(
)).getFacultyBean();


attendanceSessionBean.setAttendance_session_faculty_id(bean.getFaculty_id());
            attendanceSessionBean.setAttendance_session_department(branch);
            attendanceSessionBean.setAttendance_session_class(year);
            attendanceSessionBean.setAttendance_session_subject(subject);

            DBAdapter dbAdapter = new
DBAdapter(AddAttandanceSessionActivity.this);

            ArrayList<AttendanceBean> attendanceBeanList =
dbAdapter.getTotalAttendanceBySessionID(attendanceSessionBean);

((ApplicationContext)AddAttandanceSessionActivity.this.getApplicationContext()).se
tAttendanceBeanList(attendanceBeanList);

            Intent intent = new
Intent(AddAttandanceSessionActivity.this,ViewAttendanceByFacultyActivity.class);
            startActivity(intent);

         }
      });
   }
   @Override
   @Deprecated
   protected Dialog onCreateDialog(int id) {
      return new DatePickerDialog(this, datePickerListener, dyear, month, day);
   }
   private DatePickerDialog.OnDateSetListener datePickerListener = new
DatePickerDialog.OnDateSetListener() {
      public void onDateSet(DatePicker view, int selectedYear,
            int selectedMonth, int selectedDay) {
         dateEditText.setText(selectedDay + " / " + (selectedMonth + 1) + " / "
               + selectedYear);
      }
   };

}
```

LoginActivity.java

```
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.OnItemSelectedListener;
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.setOnItemSelectedListener(new OnItemSelectedListener() {
         @Override
         public void onItemSelected(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_item);
      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("admin") & pass_word.equals("admin123")){
                   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,AddAttandanceSessionActivity.class);
                   startActivity(intent);

((ApplicationContext)LoginActivity.this.getApplicationContext()).setFacultyBean(fa
cultyBean);
                   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;
}

}
```

AddFacultyActivity.java

```
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.OnItemSelectedListener;
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.setOnItemSelectedListener(new OnItemSelectedListener() {
           @Override
           public void onItemSelected(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_item);
        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("admin") & pass_word.equals("admin123")){
                    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,AddAttandanceSessionActivity.class);
                   startActivity(intent);

((ApplicationContext)LoginActivity.this.getApplicationContext()).setFacultyBean(fa
cultyBean);
                   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;
   }

}
```

AddStudentActivity.java

```
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.OnItemSelectedListener;
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","ME","EC","EE"};
   private String[] yearString = new String[] {"SE","TE","BE"};

   @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.setOnItemSelectedListener(new OnItemSelectedListener() {
         @Override
         public void onItemSelected(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_item);
spinnerbranch.setAdapter(adapter_branch);

///.....................spinner2

spinneryear.setOnItemSelectedListener(new OnItemSelectedListener() {
   @Override
   public void onItemSelected(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_item);
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;
  }

}
```

IMPLEMENTATION CODE OTHER FILE IN GITHUB PROJECT

4.CONCLUSION:-

The Attendance Management System is developed using Visual Basic.NET fully meets the objectives of the system which it has been developed. The system has reached a steady state where all bugs have been eliminated. The system is operated at a high level of efficiency and all the teachers and user associated with the system understands its advantage. The system solves the problem. It was intended to solve as requirement specification.

The project has a very vast scope in future. The project can be implemented on intranet in future. Project can be updated in near future as and when requirement for the same arises, as it is very flexible in terms of expansion. With the proposed software of database Space Manager ready and fully functional the client is now able to manage and hence run the entire work in a much better, accurate and error free manner.

5.REFERENCES:-

WEBSITE REFERENCE

https://developer.android.com

www.tutorialpoint.com

www.w3school.com

https://www.udacity.com

GitHub Link:-

https://github.com/sumitsingh886/Attendance-Management-System