



GALGOTIAS
UNIVERSITY

SMART ATTENDANCE SYSTEM

A Project Report of Capstone Project- 2

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1. Abstract

A education system in India has been changing widely in last years due to the development of Technology .Smart classes, E- learning, video conferencing are some of them . The core idea of this paper is to implement some of the emerging Technologies like mobile computing and advances in behavioral science studies to make better educational system . To solve all existing problem we are developing the software "Mobile Based Attendance System" based on Android technology. Lecturer will login to the phone application and get connected to the server and take the attendance using smart phone . Lecturer can edit the attendance anywhere did not used to stick on the system. This create a ease for them and saves their time. This reduces the chance of the fake attendance and this project strictly depend on the lecturer. It timely give alert for the short attendance and Lecturers can send the sms to the students of their short attendance. This project will ease the workload for them . It is more secure and less error- prone. It is easy to use and time saving. This project solves the problem of existing system.

keywords Android, Mobile Computing, Android SDK, java, mobile applications

2. Introduction

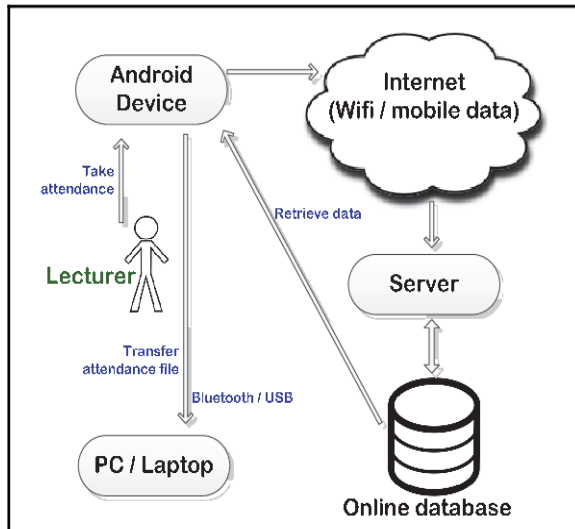


Figure 1. System architectural diagram

We have seen over the years that the process of manual attendance have been carried out across almost all educational institutions. The process is not only time consuming but also sometimes inefficient. This can lead to false marking of attendance. Today, we are not maintaining pen and paper based attendance registers as it is a very lengthy process and consume the time of lecture. It can also lead to errors as it is a manual process. Following this thought, we have proposed an 'mobile based attendance system' based on Android Technology for attendance monitoring. The application will be installed on the user's smart phone. It intends to provide an interface to the teacher who will be require minimal details to input for marking of the attendance of particular class of students. Apart from that, the application would support strong user authentication and transmist the data via the web service. Another feature of the entire application would be that no data stored on user device in any form whatsoever. The application thus builds would also help to avoid the chance of proxy as application would be handled by the teacher only. It give a betterment way to utilise the whole lecture time properly as no time wasted f or manually marking the attendance.

3. Literature Review

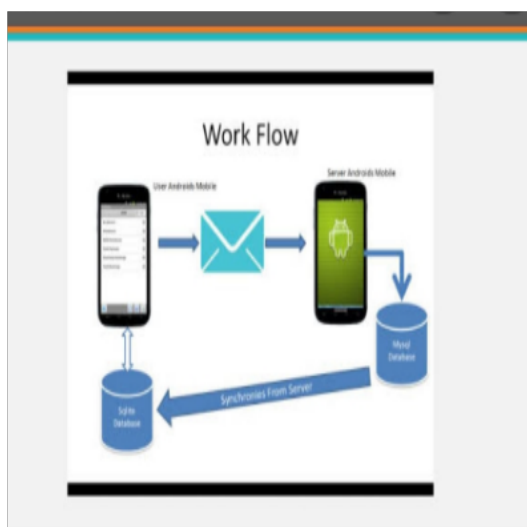
The purpose of developing attendance management system is to computerised the traditional way of taking attendance .Another purpose for developing this software is to generate the report automatically at the end of the session or in the between of the session.The design and implementation of system is to provide service in Institutes and colleges. The system is to provide comprehensive student information system and user interface to replace the current paper records.College staff uploads attendance through a secure online interface using Android devices .All data is thoroughly reviewed and validate on the server before actual record alteration occurs . The system plans for the student user interface, allowing student to access tips and tricks as provided by the seniors. All data is stored securely on SQL servers managed by the college administrator .

In this paper basic problem of the student attendance management is defined which is traditionally taken manually by faculty. One alternative to make student attendance system automatic is provided by the computer vision

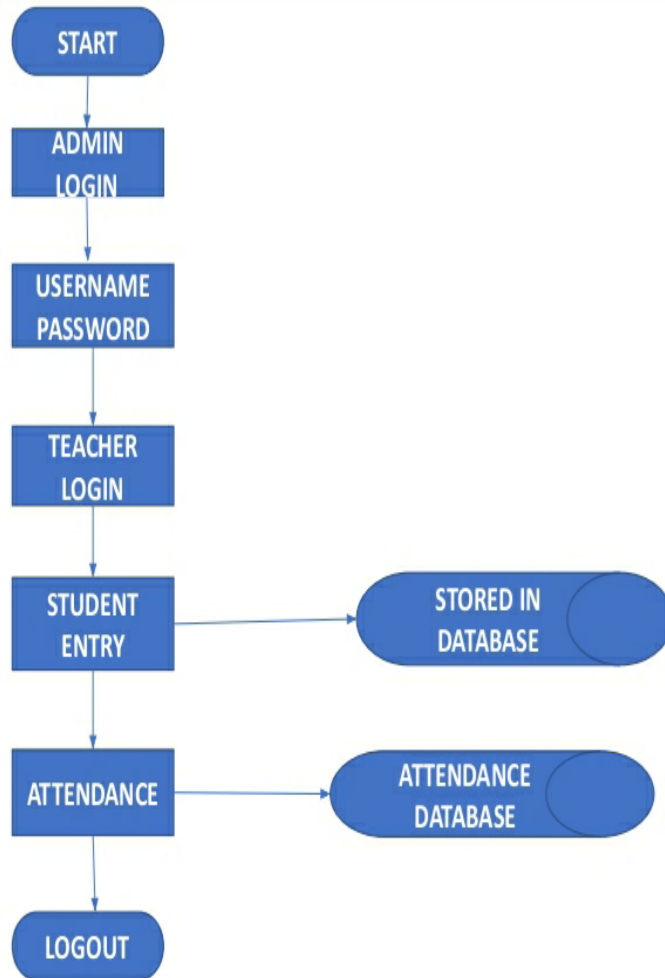
In this paper with review the various computerized system which is being developed by using Different techniques. Based on the review a new approach for the student attendance recording and management is proposed to be used for various colleges and academic institutes .This mobile application will require connecting to the inter net through Wi- Fi technology .Lecturers will first have to sign up for this and then they can take the attendance they wish by first logging in with the help of a smart phone to the server .After attendance has been taken lecturer will send it over to server via GPRS.The lecturers can also enroll new students,delete information also and all the new students delete the information about a particular student or can modified the information etc.

4. Methodology

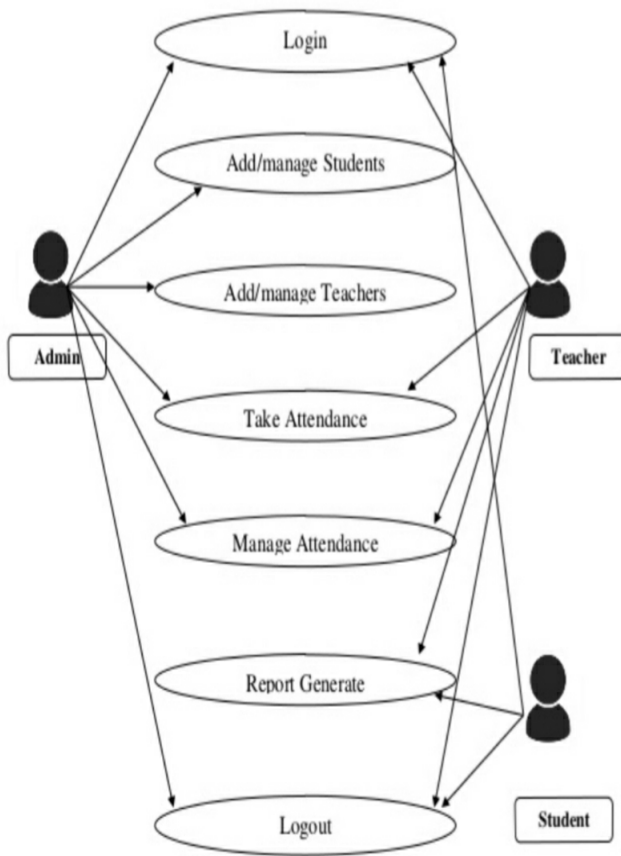
This project is developed by using Android studio and my SQL server. It is divided into two phases. In the very first phase, feasibility study is conducted, requirement analysis is carried out to understand the need for the system and the necessary modules, such as admin module, registration module, teacher modules. In the web-based module is for the admin panel to control. It's all over activates like updating, creation, deletion or any other database changes in the whole project by the admin and it's also contains a teachers registration phase on website only through which they can generate a user id and password to log in in the mobile based application which will be conducted through this admin panel server. On the other hand the mobile based application which will be totally used by the teacher to get logged in and by choosing their authorized register classid and the subject id they are able to display the digital register book on their smart mobiles on word and submitted finally by cross checking it to the made authorised provided admin server.



5. Algorithm



6. Use case



7. Feasibility Study

Feasibility Study:- Economically Feasibility: The system being developed is economic with respect to School or Collage'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 which are made at the end of the month or as per the user requirement. The result obtained contains minimum errors and are highly accurate as the data is required.

Technical feasibility: The technical requirement for the system is economic and it does not use any other additional Hardware and software.

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.

8. Modules Description

Admin Module

This module is used for the teachers to login for administrator ,it have whole rights to monitor and manage entire project through this module any new information can be easily inserted ,updated ,deleted or view.

Teacher Module

This module is used for the teachers to get register on the website in respect to generate user id and password through which they are able to login in the smart mobile based attendance application to display the digital register book and submit the final data to the authorised web server of the admin panel.

9.1 mplementation

Login activity

```
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.android.attendancesystem.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) {
        // TODO Auto-generated method stub
        ((TextView) arg0.getChildAt(0)).setTextColor(Color.WHITE);
        userrole=(String) spinnerloginas.getSelectedItem();

    }

    @Override
    public void onNothingSelected(AdapterView<?> arg0) {
        // TODO Auto-generated method stub
    }
});

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) {
        // TODO Auto-generated method stub

        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 successf ul" , 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(" I nvalid 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()).setFacultyBean(facu
ltyBean);
        Toast.makeText(getApplicationContext(),
" Login successf ul" , Toast.LENGTH_ SHORT).show();
    }
    else

```

```
        {
            Toast.makeText(getApplicationContext(),
"Login failed", Toast.LENGTH_SHORT).show();
        }
    }

});
}

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}
}
```

Add student activity

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

import com.android.attendance.bean.StudentBean;
import com.android.attendance.db.DBAdapter;
import com.example.android.attendancesystem.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[] { "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) {
        // TODO Auto-generated method stub
        ((TextView) arg0.getChildAt(0)).setTextColor(Color.WHITE);
        branch =(String) spinnerbranch.getSelectedItem();
    }

    @Override
    public void onNothingSelected(AdapterView<?> arg0) {
        // TODO Auto-generated method stub
    }
});

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) {
        // TODO Auto-generated method stub
        ((TextView) arg0.getChildAt(0)).setTextColor(Color.WHITE);
        year =(String) spinneryear.getSelectedItem();
    }

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

```



```

        // TODOAuto- generated method stub
    }
});

ArrayAdapter<String> adapter_year = new ArrayAdapter<String>(this,
    android.R.layout.simple_spinner_item, yearString);
adapter_year
item);
.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_
spinneryear.setAdapter(adapter_year);

registerButton.setOnClickListener(new OnClickListener() {

    @Override
    public void onClick(View v) {
        // TODOAuto- generated method stub
        // .....validation
        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) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}
}
}

```

Add Faculty activity

```
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) {
```

```
        // TODO Auto-generated method stub
```

```
        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 phonenumber");
```

```
        }
```

```
        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) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}
}

```

Attendance view by student activity

```
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.android.attendancesystem.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.this.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 );

        /*listView.setOnItemLongClickListener(new OnItemLongClickListener() {

            @Override
            public boolean onItemLongClick(AdapterView<?> arg0, View arg1,
            final int position, long arg3) {

                AlertDialog.Builder alertDialogBuilder = new
                AlertDialog.Builder(ViewAttendanceByFacultyActivity.this);

                alertDialogBuilder.setTitle(getTitle()+" decision");
                alertDialogBuilder.setMessage(" Are you sure?");

                alertDialogBuilder.setPositiveButton(" Yes",new
                DialogInterface.OnClickListener() {
                    public void onClick(DialogInterface dialog,int id) {

                        facultyList.remove(position);
                        listAdapter.notifyDataSetChanged();
                        listAdapter.notifyDataSetChanged();

                    }
                });

                alertDialogBuilder.show();

            }
        });

        dbAdapter.deleteFaculty(facultyBeanList.get(position).getFaculty_id());
        facultyBeanList=dbAdapter.getAllFaculty();
    }
}

```

```

        for(FacultyBean facultyBean :
facultyBeanList)
        {
            String users = "  FirstName: " +
facultyBean.getFaculty_firstname()+" \nLastname:" +facultyBean.getFaculty_lastn
ame();

            facultyList.add(users);
            Log.d(" users: ", users);

        }
    }

});
AlertDialogBuilder.setNegativeButton(" No",new
DialogInterface.OnClickListener() {

    public void onClick(DialogInterface dialog,int id) {
        // cancel the alert box and put a Toast to the
user

        dialog.cancel();
        Toast.makeText(getApplicationContext(),
" You choose cancel" ,

            Toast.LENGTH_LONG).show();

    }

});

AlertDialog alertDialog = alertDialogBuilder.create();
// showAlert
alertDialog.show();

return false;
}

});
*/

}

```



```
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}
}
```

Attendance view by faculty activity

```
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.android.attendancesystem.R;

public class ViewAttendanceByFacultyActivity 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("Id | StudentName | Status");

        attendanceBeanList=((ApplicationContext)ViewAttendanceByFacultyActivity.this.get
```

```

ApplicationContext()).getAttendanceBeanList();

    for(AttendanceBean attendanceBean : attendanceBeanList)
    {
        String users = " ";
        if (attendanceBean.getAttendance_session_id() != 0)
        {
            DBAdapter dbAdapter = new
DBAdapter(ViewAttendanceByFacultyActivity.this);
            StudentBean studentBean
            =dbAdapter.getStudentById(attendanceBean.getAttendance_student_id());
            users = attendanceBean.getAttendance_student_id()+".
"+studentBean.getStudent_firstname()+", "+studentBean.getStudent_lastname()+
"
            "+attendanceBean.getAttendance_status();
        }
        else
        {
            users = attendanceBean.getAttendance_status();
        }

        attendanceList.add(users);
        Log.d(" users: ", users);
    }

    listAdapter = new ArrayAdapter<String>(this,
R.layout.view_attendance_list, R.id.labelAttendance, attendanceList);
    listView.setAdapter( listAdapter );

    /*listView.setOnItemLongClickListener(new OnItemLongClickListener() {

        @Override
        public boolean onItemLongClick(AdapterView<?> arg0, View arg1,
            final int position, long arg3) {

            AlertDialog.Builder alertDialogBuilder = new
AlertDialog.Builder(ViewAttendanceByFacultyActivity.this);

            alertDialogBuilder.setTitle(getTitle()+" decision" );
            alertDialogBuilder.setMessage(" Are you sure?" );

            alertDialogBuilder.setPositiveButton(" Yes", new
DialogInterface.OnClickListener() {
                public void onClick(DialogInterface dialog,int id) {

```

```

        facultyList.remove(position);
        listAdapter.notifyDataSetChanged();
        listAdapter.notifyDataSetChanged();

dbAdapter.deleteFaculty(facultyBeanList.get(position).getFaculty_id());
        facultyBeanList=dbAdapter.getAllFaculty();

        for(FacultyBean facultyBean :
facultyBeanList)
        {
            String users = "  FirstName: " +
facultyBean.getFaculty_firstname()+" \nLastname:" +facultyBean.getFaculty_lastn
ame();

            facultyList.add(users);
            Log.d(" users: ", users);

        }

    }

});
        alertDialogBuilder.setNegativeButton(" No", new
DialogInterface.OnClickListener() {
            public void onClick(DialogInterface dialog,int id) {
                // cancel the alert box and put a Toast to the
user
                dialog.cancel();
                Toast.makeText(getApplicationContext(),
" You choose cancel" ,
                    Toast.LENGTH_LONG).show();
            }
        });

        AlertDialog alertDialog = alertDialogBuilder.create();
        // showAlert
        alertDialog.show();

        return false;
    }
});

```

```
*/
```

```
@Override  
public boolean onCreateOptionsMenu(Menu menu) {  
    // Inflate the menu; this adds items to the action bar if it is present.  
    getMenuInflater().inflate(R.menu.main, menu);  
    return true;  
}  
}
```

View student by branch and year

```
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.FacultyBean;
import com.android.attendance.bean.StudentBean;
import com.android.attendance.db.DBAdapter;
import com.example.android.attendancesystem.R;

public class ViewStudentByBranchYear extends Activity {

    ArrayList<StudentBean> studentBeanList;
    private ListView listView;
    private ArrayAdapter<String> listAdapter;
    String branch;
    String year;

    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> studentList = new ArrayList<String>();

        branch=getIntent().getExtras().getString(" branch" );
        year =getIntent().getExtras().getString(" year" );
```

```

        studentBeanList=dbAdapter.getAllStudentByBranchYear(branch, year);
        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.view_student_list,
R.id.label, studentList);
        listView.setAdapter( listAdapter );

        listView.setOnItemLongClickListener(new OnItemLongClickListener() {

            @Override
            public boolean onItemLongClick(AdapterView<?> arg0, View arg1,
                final int position, long arg3) {

                AlertDialog.Builder alertDialogBuilder = new
AlertDialog.Builder(ViewStudentByBranchYear.this);

                alertDialogBuilder.setTitle(getTitle()+" decision" );
                alertDialogBuilder.setMessage(" Are you sure?" );

                alertDialogBuilder.setPositiveButton(" Yes", new
DialogInterface.OnClickListener() {
                    public void onClick(DialogInterface dialog,int id) {

                        studentList.remove(position);
                        listAdapter.notifyDataSetChanged();
                        listAdapter.notifyDataSetChanged();

                    }
                });

                dbAdapter.deleteStudent(studentBeanList.get(position).getStudent_id());
                studentBeanList=dbAdapter.getAllStudentByBranchYear(branch, year);

                for(StudentBean studentBean :
studentBeanList)
                {

```

```

        String users = "  FirstName: " +
studentBean.getStudent_firstname()+" \nLastname:" +studentBean.getStudent_last
name();
        studentList.add(users);
        Log.d(" users: ", users);
    }
}
});

        alertDialogBuilder.setNegativeButton(" No",new
Dialogl nterf ace.OnClickLstener() {
        public void onClick(Dialogl nterf ace dialog,int id) {
            // cancel the alert box and put a Toast to the
user
            dialog.cancel();
            Toast.makeText(getApplicationContext(),
" You choose cancel" ,
            Toast.LENGTH_LONG).show();
        }
});

        AlertDialog alertDialog = alertDialogBuilder.create();
        // show alert
        alertDialog.show();

        return false;
    }
});
}

```

```

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // I nflate the menu; this adds items to the action bar if it is present.
    getMenul nflater().inflate(R.menu.main, menu);
}

```



```
        return true;
    }
}
```

Project xml

```
<?xml version=" 1.0" encoding=" UTF- 8" ?>
<web- apxmlns:xsi=" http:// www.w3.org/ 2001/ XMLSchema- instance"
xmlns=" http:// xmlns.j cp.org/ xml/ ns/ j avaee"
xsi:schemaLocation=" http:// xmlns.j cp.org/ xml/ ns/ j avaee
http:// xmlns.j cp.org/ xml/ ns/ j avaee/ web- app_ 3_ 1.xsd"
id=" WebApp_ I D" version=" 3.1" >
<servlet>
<servlet- name>s1</ servlet- name>
<servlet>

<servlet- mapping>
<servlet- name>s1</ servlet- name>
<url- pattern>/ addServlet</ url- pattern>
</ servlet- mapping>
<servlet>
<servlet- name>s2</ servlet- name>
<servlet- class>mypack.UpdateServlet</ servlet- class>
</ servlet>
<servlet- mapping>
<servlet- name>s2</ servlet- name>
<url- pattern>/ updateServlet</ url- pattern>
</ servlet- mapping>

<servlet>
<servlet- name>s3</ servlet- name>
<servlet- class>mypack.DeleteServlet</ servlet- class>
</ servlet>
<servlet- mapping>
<servlet- name>s3</ servlet- name>
<url- pattern>/ deleteServlet</ url- pattern>
</ servlet- mapping>

<servlet>
<servlet- name>s4</ servlet- name>
<servlet- class>mypack.FindServlet</ servlet- class>
</ servlet>
<servlet- mapping>
<servlet- name>s4</ servlet- name>
<url- pattern>/ findServlet</ url- pattern>
</ servlet- mapping>
```

```
<servlet>
<servlet- name>s5</ servlet- name>
<servlet- class>mypack.FindAllServlet</ servlet- class>
</ servlet>
<servlet- mapping>
<servlet- name>s5</ servlet- name>
<url- pattern>/findAllServlet</url- pattern>
</ servlet- mapping>
</ web- app>
```

Application context

```
package com.android.attendance.context;

import java.util.ArrayList;

import android.app.Application;

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

public class ApplicationContext extends Application {
    private FacultyBean facultyBean;
    private AttendanceSessionBean attendanceSessionBean;
    private ArrayList<StudentBean> studentBeanList;
    private ArrayList<AttendanceBean> attendanceBeanList;

    public FacultyBean getFacultyBean() {
        return facultyBean;
    }
    public void setFacultyBean(FacultyBean facultyBean) {
        this.facultyBean = facultyBean;
    }
    public AttendanceSessionBean getAttendanceSessionBean() {
        return attendanceSessionBean;
    }
    public void setAttendanceSessionBean(AttendanceSessionBean
attendanceSessionBean) {
        this.attendanceSessionBean = attendanceSessionBean;
    }
    public ArrayList<StudentBean> getStudentBeanList() {
        return studentBeanList;
    }
    public void setStudentBeanList(ArrayList<StudentBean> studentBeanList) {
        this.studentBeanList = studentBeanList;
    }
    public ArrayList<AttendanceBean> getAttendanceBeanList() {
        return attendanceBeanList;
    }
    public void setAttendanceBeanList(ArrayList<AttendanceBean>
```

```
attendanceBeanList) {  
    this.attendanceBeanList = attendanceBeanList;  
}  
  
}
```

10.Result

In the following figures showing all the information. Following figures shows the admin module and teacher module. In teacher module teacher can add or delete any information about any student.

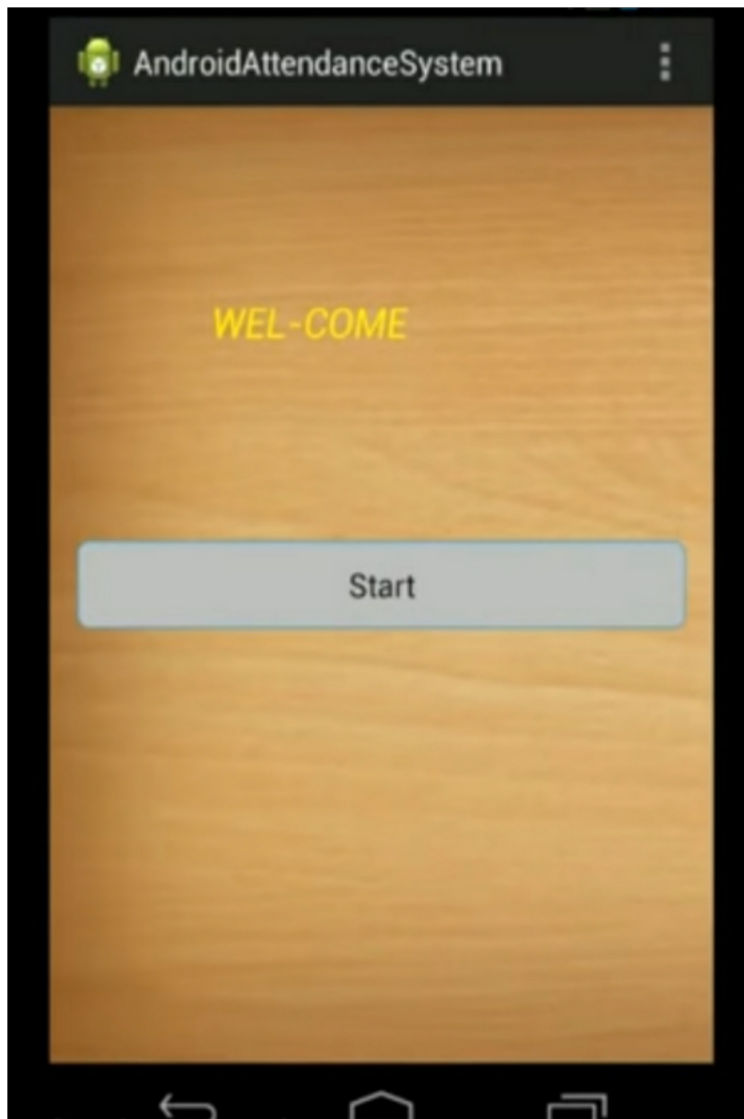


Figure- 1

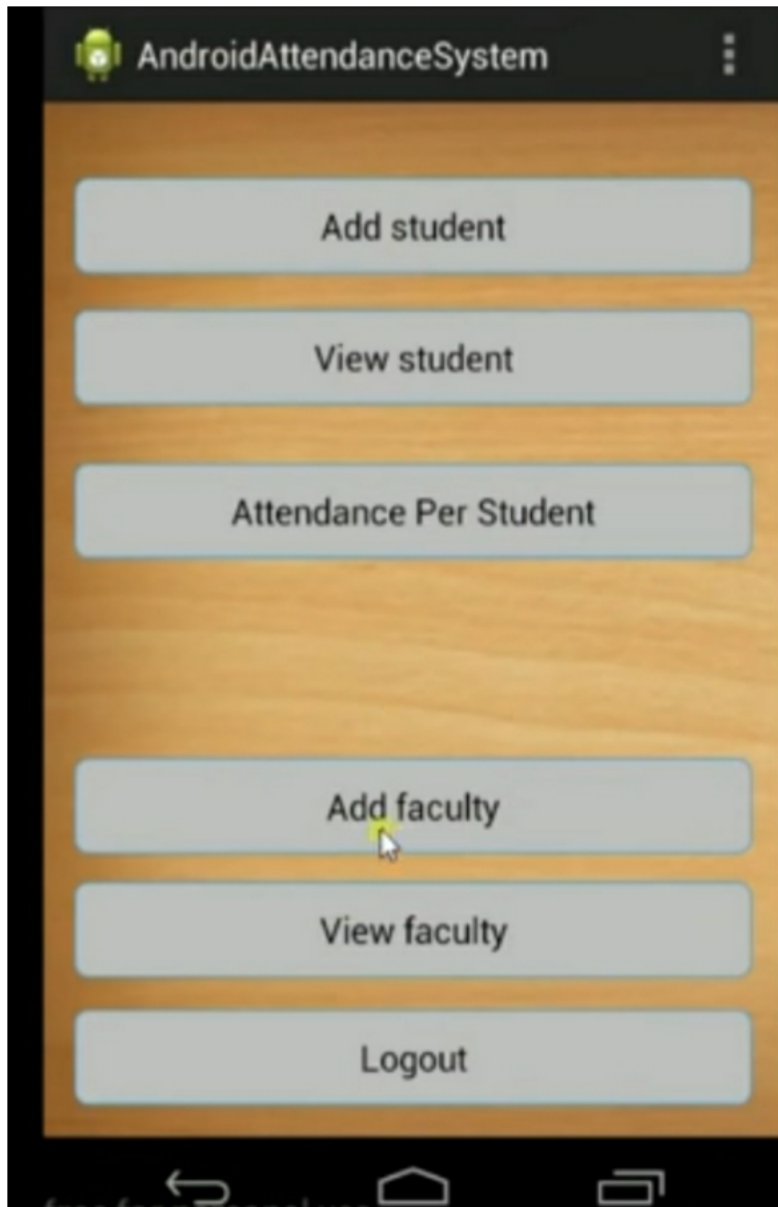


Figure- 2

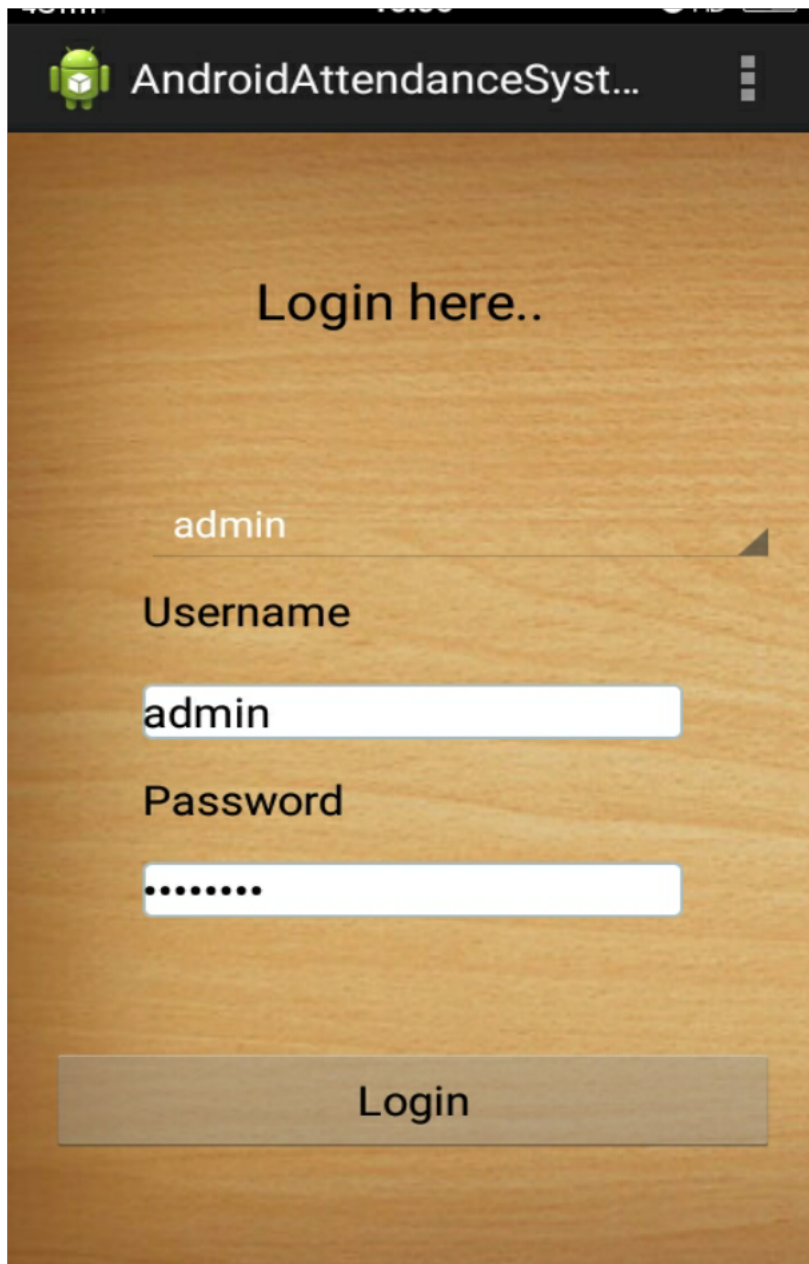


Figure- 3

AndroidAttendanceSyst...

registration

firstname
Pooja

lastname
Gitte

Contact
7896541203

Address
Beed

Select dept
cse

Select year
SE

submit cancle

Figure- 4

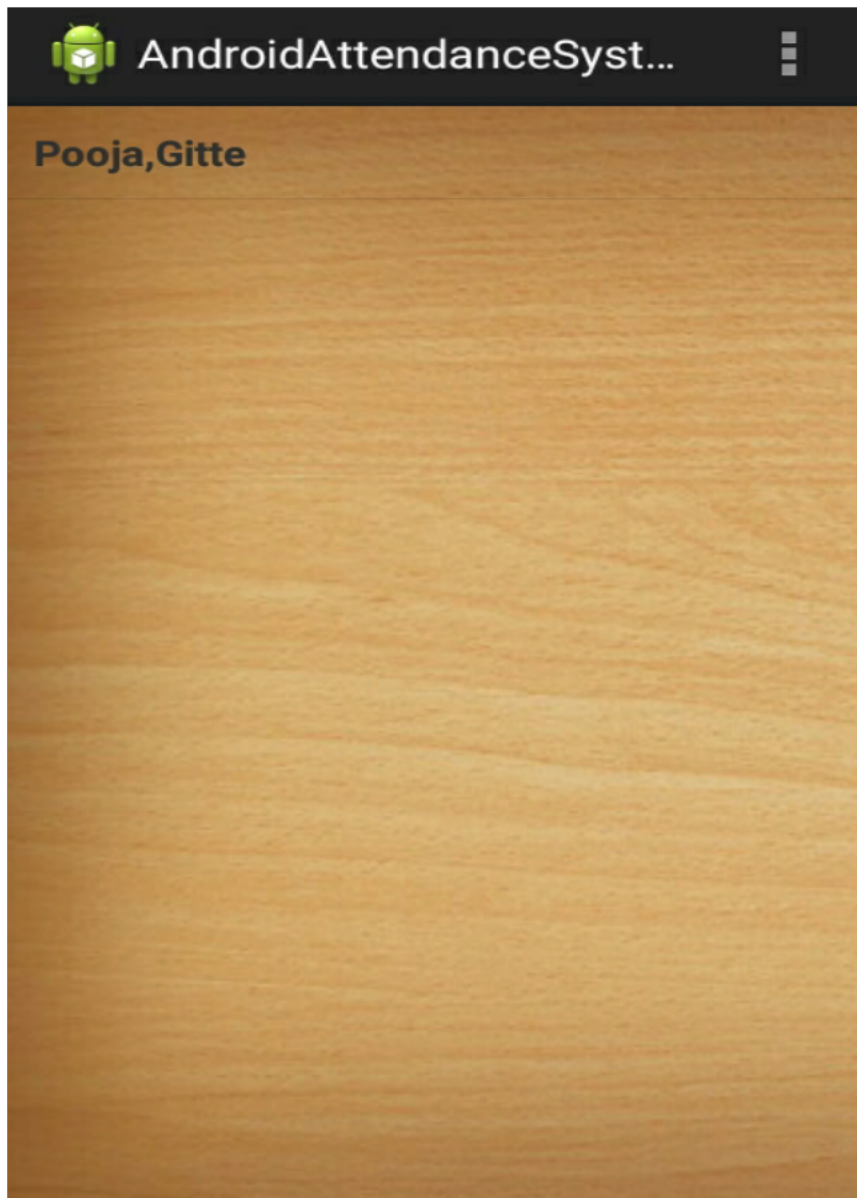


Figure- 5

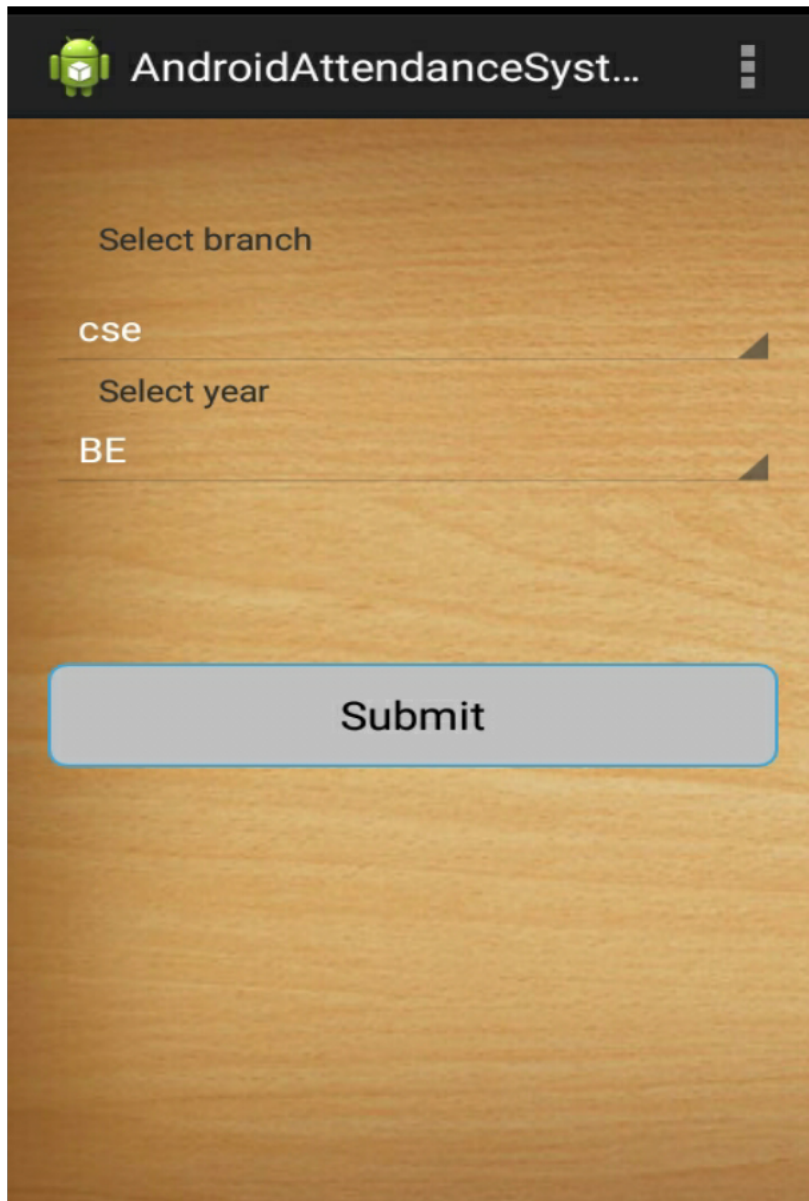


Figure- 6

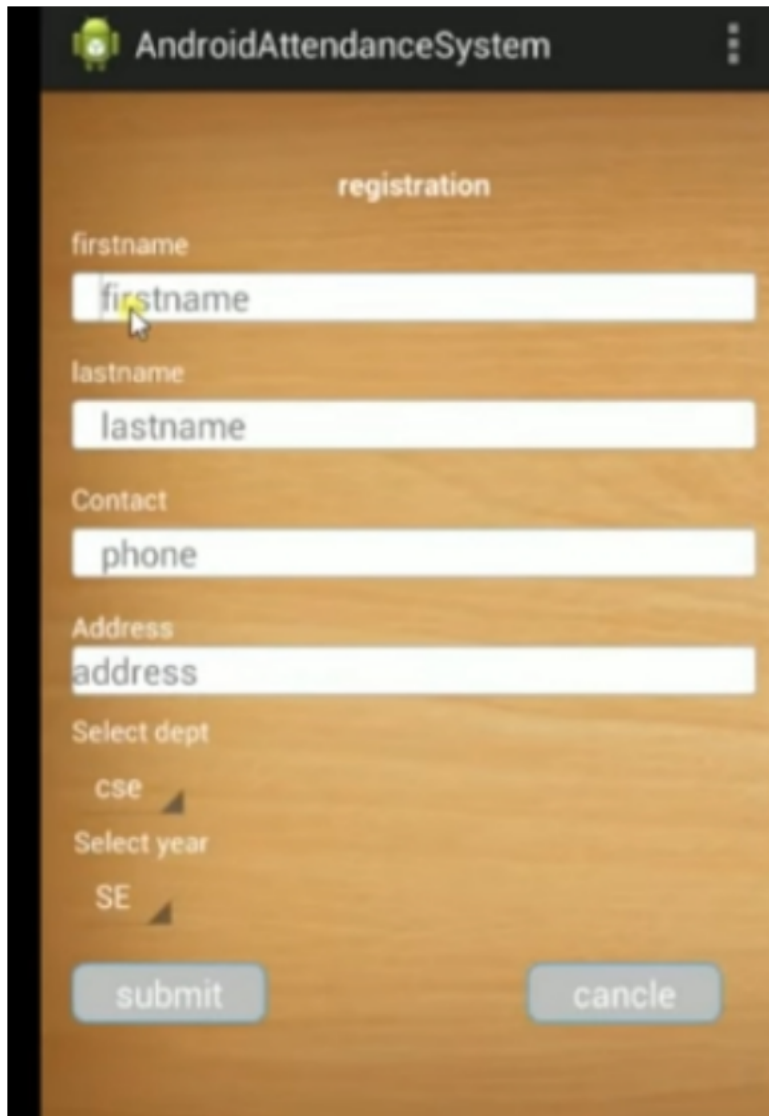


Figure- 7

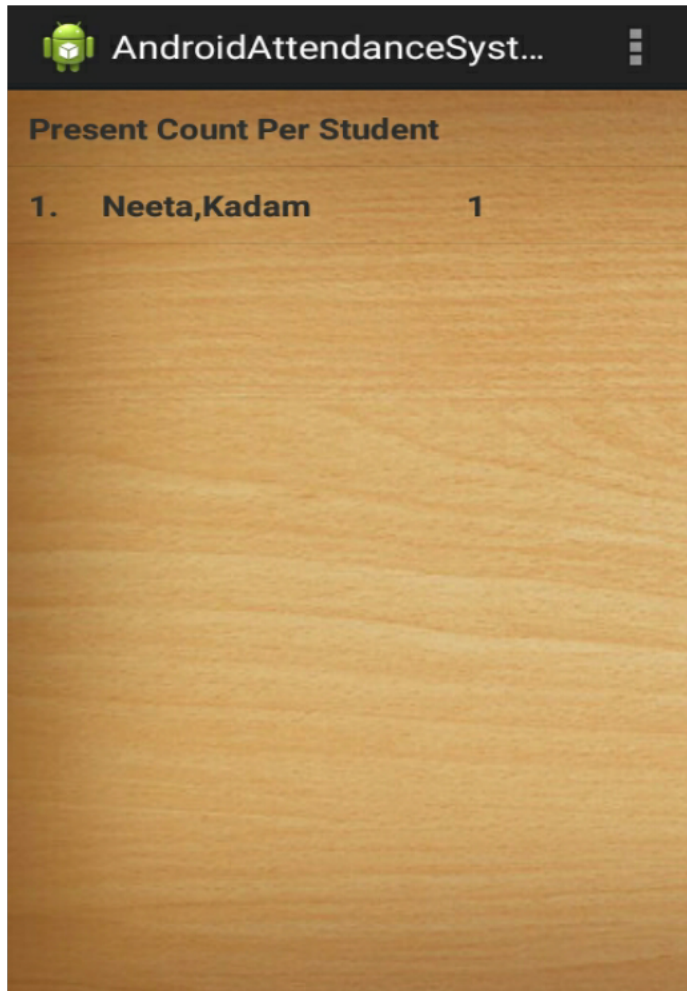


Figure- 8

Figure- 2,3=Admin Module

Figure- 4,5,6,7,8=Teacher Module

11. Conclusion

The whole work is to access the details about the student attendance information and generate a final reports. This project 'mobile based attendance system' is a collection of Static and dynamic web based or mobile application based pages. This project provides an offer to the user to enter the data through their respective registration forms. It is very helpful for the Teachers to keep and maintain the information about the student easily. In future this work can be expanded to store the internal marks, semester marks, college events and college placement activities of the students get minimized all stuffs at one place in a systematic way to import and export the data through the admin and authorised persons whenever it will be needed in future by the educational organization.

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