

PROJECT REPORT ON

STUDENT INFO

A MOBILE APPLICATION

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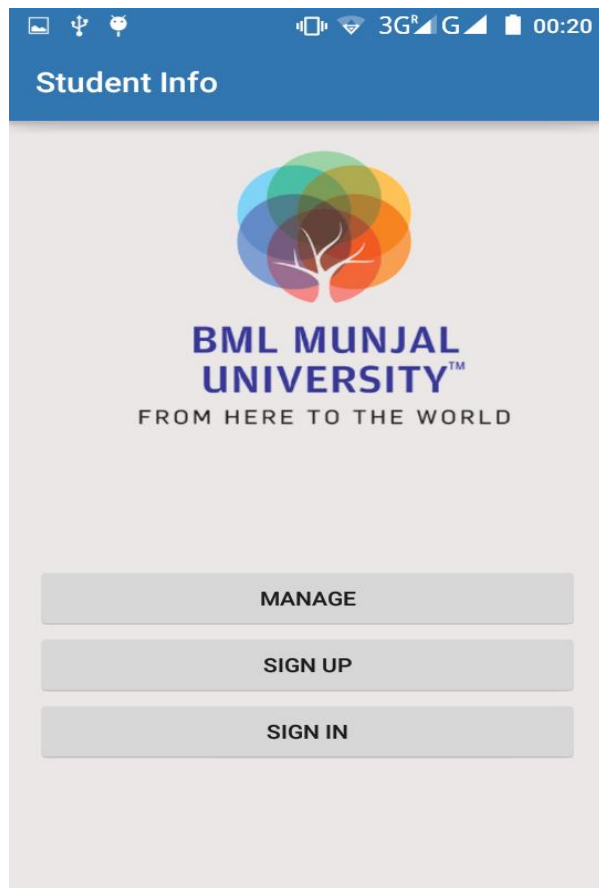
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Introduction

A mobile application software or mobile app is an application software designed to run on mobile devices such as smartphones and tablet computers. Most such devices are sold with several apps bundled as pre-installed software, such as a web browser, email client, calendar, mapping program, and an app for buying music or other media or more apps. Some pre-installed apps can be removed by an ordinary uninstall process, thus leaving more storage space for desired ones. Where the software does not allow this, some devices can be rooted to eliminate the undesired apps.

So as student we tried to develop an app which gives an information about particular student depends on the username and also where we can store his schedule frequently and update the schedule and also we can store the attendance of the courses which the student is attending.



Abstract

Basically when we have to store details of particular person we write all the details on some paper and also if we have to attend particular event on some day we forget until someone reminds about the event so we usually end up delaying it or not going to attend. For that we come with idea to store all the personal details of the person and also store the events like basic schedule you are going to do in the coming hours.

Step 1:-

We designed in such way that initially the user has to register with app and then he is automatically redirected to fill some personal details of the user and we can now logout after filling all the personal details.

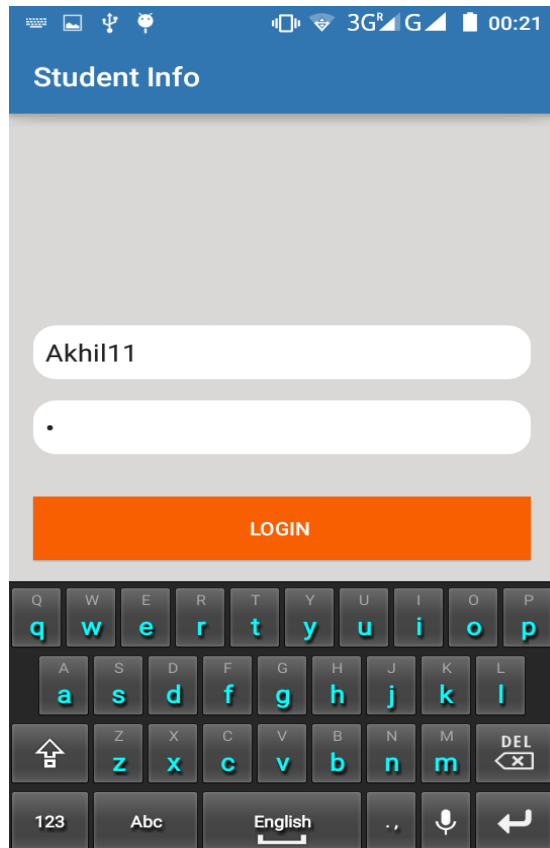
The image displays two screenshots of a mobile application interface, both titled "Student Info".

The left screenshot shows a registration form with the following fields: "username", "password", and "Confirm Password". Below these fields is an orange button labeled "SIGN_UP". The status bar at the top indicates the time is 00:20.

The right screenshot shows a form for entering personal details, with fields for: "id", "username", "School", "Session", "fees", "Phone", "Email", and "Birthday". The status bar at the top indicates the time is 00:21.

Step 2:-

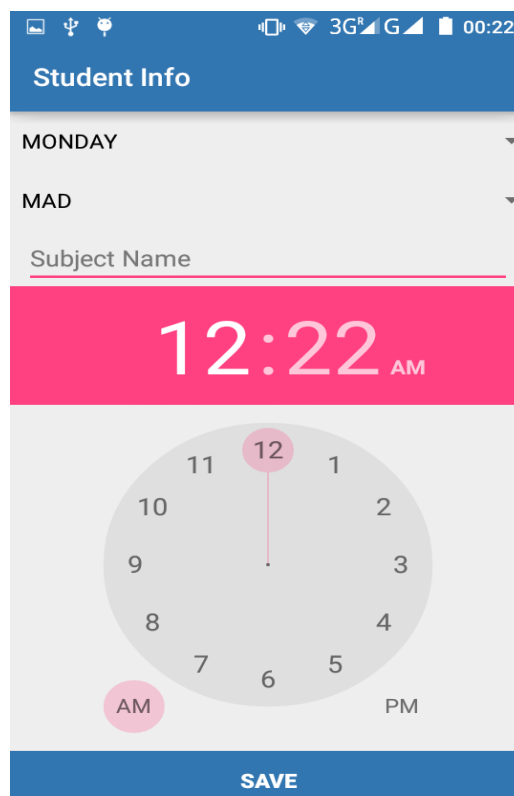
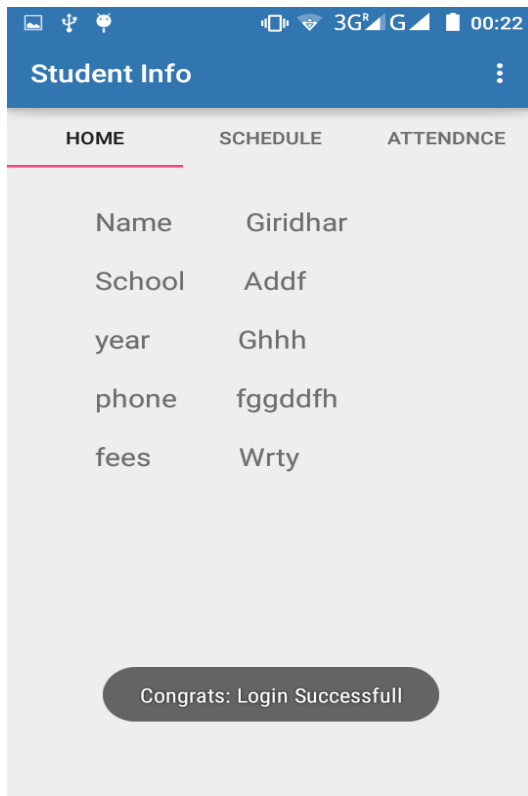
After completing the first step the user now have to undergo login process if the login is successful then the page is redirected to display page of the user initially it shows all the personal details of the user.



Step 3:-

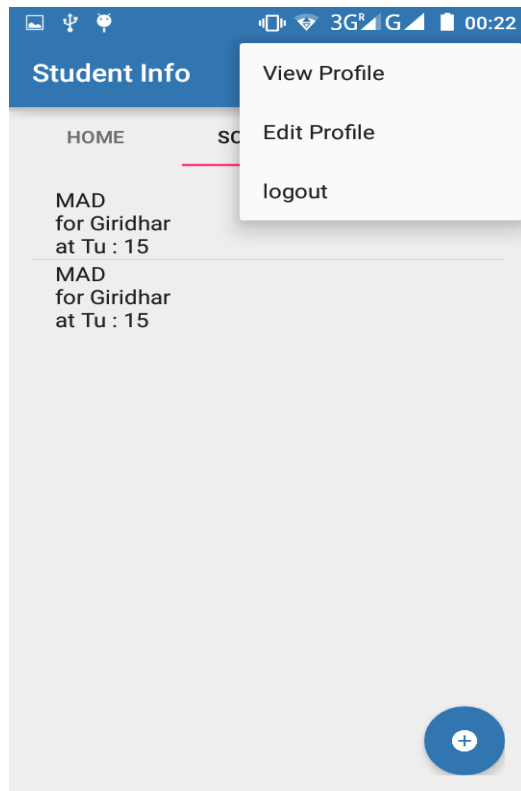
After login is successful we are initially taken to personal details of the user and then we have tabs and view pager so that we slide them to see the schedule and the attendance of the user.

If any schedule is not present then we are going to add the schedules by clicking on floating action button then we are going to add the schedule where the app displays the time and all the courses and at which particular room it is going to happen.



Step 4:-

We can logout from the present account from the menu display which is present on the top of the app where you are given with three options.



Code

Manifest:-

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.android.tourguide"
    android:versionCode="1"
    android:versionName="1.0">

    <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
    <uses-permission android:name="android.permission.READ_PHONE_STATE" />
    <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE" />
    <uses-permission android:name="android.permission.INTERNET"/>

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">

        <activity
            android:name=".MainActivity"
            android:configChanges="orientation"
            android:screenOrientation="portrait">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>

        <activity android:name=".Manage"
            android:configChanges="orientation"
            android:screenOrientation="portrait"/>

        <activity android:name=".Student_home"
            android:configChanges="orientation"
            android:screenOrientation="portrait"/>

        <activity android:name=".profile" />
```

```

        <activity android:name=".make_schedule"
            android:configChanges="orientation"
            android:screenOrientation="portrait"></activity>

    </application>

</manifest>

```

Gradle Build:-

```
apply plugin: 'com.android.application'
```

```

android {
    compileSdkVersion 23
    buildToolsVersion "23.0.2"
    defaultConfig {
        applicationId "com.android.tourguide"
        minSdkVersion 15
        targetSdkVersion 23
        versionCode 1
        versionName "1.0"
        testInstrumentationRunner "android.support.test.runner.AndroidJUnitRunner"
    }
    buildTypes {
        release {
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-android.txt'), 'proguard-rules.pro'
        }
    }
}

dependencies {
    compile fileTree(dir: 'libs', include: ['*.jar'])
    compile 'com.android.support:design:23.4.0'
    compile 'com.android.support:appcompat-v7:23.4.0'
    compile 'com.android.support:support-v4:23.4.0'
    testCompile 'junit:junit:4.12'
}

```

Activities:-

- 1) Main Activity
- 2) Make Schedule
- 3) Manage
- 4) Student
- 5) Student_attendence
- 6) Student_schedule
- 7) Student_home
- 8) Profile
- 9) Student_sign
Student display

Main activity:

```
package com.android.tourguide;

import android.content.Intent;
import android.support.design.widget.TabLayout;
import android.support.v4.view.ViewPager;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void manage(View view)
    {
        Intent intent=new Intent(this,Manage.class);
        startActivity(intent);
    }
    public void sign(View view)
    {
        Intent intent=new Intent(this,student_sign.class);
        startActivity(intent);
    }
    public void login(View view)
```

```

    {
        Intent intent=new Intent(this,Student.class);
        startActivity(intent);
    }
}

```

Make Schedule:-

```

package com.android.tourguide;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.TimePicker;
import android.widget.Toast;

import java.util.ArrayList;

public class make_schedule extends AppCompatActivity {

    Spinner classSelect, daySelect;
    ArrayAdapter adapterSpinner, days;
    String courses[] = {"MAD", "DBMS","EMSA","OS","CRST","COA", "DAA"};
    studentbaseAdapter studentAdapter;
    Student_display student_display=new Student_display();
    public String username="";

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

        studentAdapter = new studentbaseAdapter(this);
        studentAdapter = studentAdapter.open();

        username=student_display.Username();
    }
}

```

```

classSelect = (Spinner) findViewById(R.id.classSelector);
daySelect = (Spinner) findViewById(R.id.daySelector);

adapterSpinner = new ArrayAdapter<String>(this,
android.R.layout.simple_spinner_dropdown_item, courses);
assert classSelect != null;
classSelect.setAdapter(adapterSpinner);

ArrayList<String> weekdays = new ArrayList<>();
weekdays.add("MONDAY");
weekdays.add("TUESDAY");
weekdays.add("WEDNESDAY");
weekdays.add("THURSDAY");
weekdays.add("FRIDAY");
weekdays.add("SATURDAY");
weekdays.add("SUNDAY");
days = new ArrayAdapter<String>(this,
android.R.layout.simple_spinner_dropdown_item, weekdays);
assert classSelect != null;
daySelect.setAdapter(days);

Button btn = (Button) findViewById(R.id.saveBUTTON_SCHEDULE);
assert btn != null;
btn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        saveSchedule(v);
    }
});

}

private void saveSchedule(View v) {
    String daySelected = daySelect.getSelectedItem().toString();
    String classSelected = classSelect.getSelectedItem().toString();
    EditText editText = (EditText) findViewById(R.id.subjectName);
    String subject = editText.getText().toString();

```

```

        if (subject.length() < 2) {
            Toast.makeText(getApplicationContext(), "Enter Valid Subject Name",
Toast.LENGTH_SHORT).show();
            return;
        }
        TimePicker timePicker = (TimePicker) findViewById(R.id.timePicker);
        int hour = timePicker.getCurrentHour();
        int min = timePicker.getCurrentMinute();

        String Hour=String.valueOf(hour);

        studentAdapter.Schedule(classSelected,subject,Hour,daySelected,username);
        Toast.makeText(getApplicationContext(), "Saving Schedule", Toast.LENGTH_SHORT).show();
    }
}

```

Manage:-

```

package com.android.tourguide;

import android.content.Intent;
import android.net.Uri;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.util.Log;
import android.view.LayoutInflater;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.ListView;
import android.widget.Spinner;
import android.widget.Toast;

import java.util.ArrayList;

import static android.R.attr.value;
import static android.R.attr.x;

public class Manage extends AppCompatActivity {

```

```

studentbaseAdapter studentAdapter;
helper help;
ListAdapter listAdapter;
ArrayList<String> students;
ListView listView;
ArrayList<Boolean> attendanceList;

public static String time,period;

@Override
protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_manage);

    time = getIntent().getStringExtra("DATE");
    period = getIntent().getStringExtra("PERIOD");

    studentAdapter=new studentbaseAdapter(this);
    studentAdapter=studentAdapter.open();

    listView=(ListView)findViewById(R.id.list_item);
}

public void load(View v) {
    students= studentAdapter.getAllStringValues();

    ListAdapter listAdapter=new ListAdapter(this,students);

    listView.setAdapter(listAdapter);
}

public void save(View v)
{
    String[] student=new String[students.size()];
    student=students.toArray(student);

    attendanceList = new ArrayList<>();
    for(int i=0; i<students.size(); i++)
    {
        attendanceList.add(new Boolean(true));
    }
}

```

```

    }
    for(int i=0; i<students.size(); i++)
    {
        int sts = 1;
        if(attendanceList.get(i))
            sts = 1;
        else sts = 0;
        studentAdapter.Attendence(student[i],sts);
    }
    Toast.makeText(Manage.this,"Saving",Toast.LENGTH_SHORT).show();

    String x="http://lms.bml.edu.in/";

    Intent intent=new Intent(Intent.ACTION_VIEW);
    intent.setData(Uri.parse(x));
    startActivity(intent);
}
}

```

Profile:-

```

package com.android.tourguide;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import static android.R.attr.id;
import static android.os.Build.VERSION_CODES.M;

public class profile extends AppCompatActivity {

    EditText editTextUserName,editTextid,editTextfees,editschool,edityear,editphone;
    Button btnCreateAccount,btnlogout;
    studentbaseAdapter studentAdapter;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
    }
}

```



```

setContentView(R.layout.activity_profile);

// get Instance of Database Adapter
studentAdapter=new studentbaseAdapter(this);
studentAdapter=studentAdapter.open();
// Get References of Views
editTextUserName=(EditText)findViewById(R.id.edittextname);
editTextid=(EditText)findViewById(R.id.edittextid);
editTextfees=(EditText)findViewById(R.id.edittextfees);
edityear=(EditText)findViewById(R.id.year);
editschool=(EditText)findViewById(R.id.school);
editphone=(EditText)findViewById(R.id.Phone);

btnCreateAccount=(Button)findViewById(R.id.create);
btnlogout=(Button)findViewById(R.id.logout);
btnCreateAccount.setOnClickListener(new View.OnClickListener() {

    public void onClick(View v)

    {
        String userName=editTextUserName.getText().toString();
        String id=editTextid.getText().toString();
        String fees=editTextfees.getText().toString();
        String phone=editphone.getText().toString();
        String school=editschool.getText().toString();
        String year=edityear.getText().toString();

        // check if any of the fields are vaccant

        if(userName.equals("")||fees.equals("")||id.equals("")||phone.equals("")||school.equals("")
        ||year.equals(""))
        {
            Toast.makeText(getApplicationContext(), "Field Vaccant",
Toast.LENGTH_LONG).show();
        }
        else
        {
            // Save the Data in Database
            studentAdapter.insertdetails(id,userName,fees,phone,school,year);
            Toast.makeText(getApplicationContext(), "Account Successfully Created ",
Toast.LENGTH_LONG).show();
        }
    }
});
}

public void update(View v)

```

```

{
    Intent intent=new Intent(this,profile.class);
    startActivity(intent);
}

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

@Override
protected void onDestroy()
{
    // TODO Auto-generated method stub
    super.onDestroy();
    studentAdapter.close();
}
}

```

Student:-

```

package com.android.tourguide;

import android.app.Fragment;
import android.app.FragmentManager;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import static android.R.attr.name;
import static android.R.id.message;

public class Student extends AppCompatActivity
{
    public String username;
    EditText editTextname,editTextpassword;
    studentbaseAdapter studentAdapter;
}

```

```

@Override
protected void onCreate(Bundle savedInstanceState)
{
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_student);
    studentAdapter=new studentbaseAdapter(this);
    studentAdapter=studentAdapter.open();
    editTextname=(EditText)findViewById(R.id.editname);
}

public void enter(View view)
{
    // get the References of views

    editTextpassword=(EditText)findViewById(R.id.password);
    Button button=(Button)findViewById(R.id.enter);
    button.setOnClickListener(new View.OnClickListener()
    {
        @Override
        public void onClick(View view)
        {
            // get The User name and Password
            username=editTextname.getText().toString();
            String password=editTextpassword.getText().toString();
            String storedPassword=studentAdapter.getpassword(username);

            if(password.equals(storedPassword))
            {
                Toast.makeText(Student.this, "Congrats: Login Successful",
Toast.LENGTH_LONG).show();
                Intent intent=new Intent(Student.this,Student_display.class);
                intent.putExtra("message", username);
                startActivity(intent);
            }
            else
            {
                Toast.makeText(Student.this, "User Name or Password does not match",
Toast.LENGTH_LONG).show();
            }
        }
    });
}

@Override
protected void onDestroy()
{

```

```

        // TODO Auto-generated method stub
        super.onDestroy();
        studentAdapter.close();
    }

    public String Username()
    {
        username=editTextname.getText().toString();
        return username;
    }
}

```

Student_display:-

```

package com.android.tourguide;

import android.content.Intent;
import android.support.design.widget.TabLayout;
import android.support.v4.view.ViewPager;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.app.FragmentManager;
import android.view.Menu;
import android.view.MenuItem;

public class Student_display extends AppCompatActivity {

    private static String name;

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

        Bundle bundle = getIntent().getExtras();
        name = bundle.getString("message");

        ViewPager viewPager = (ViewPager) findViewById(R.id.viewpager);

        SimpleFragmentAdapter adapter = new
        SimpleFragmentAdapter(this, getSupportFragmentManager());
    }
}

```

```

        // Set the adapter onto the view pager

        viewPager.setAdapter(adapter);

        TabLayout tabLayout = (TabLayout) findViewById(R.id.tabs);

        tabLayout.setupWithViewPager(viewPager);

    }

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

    @Override
    public boolean onOptionsItemSelected(MenuItem item)
    {
        // User clicked on a menu option in the app bar overflow menu
        switch (item.getItemId()) {
            case R.id.View_Profile:
                Intent intent=new Intent(this,Student_display.class);
                startActivity(intent);
                return true;
            case R.id.Edit_Profile:
                Intent intent1=new Intent(this,profile.class);
                startActivity(intent1);
                return true;
            case R.id.logout:
                Intent intent2=new Intent(this,MainActivity.class);
                startActivity(intent2);
                // Do nothing for now
                return true;
        }
        return super.onOptionsItemSelected(item);
    }
    public static String Username()
    {
        return name;
    }
}

```

Student Attendance:-

```
package com.android.tourguide;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

public class Student_attendance extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_student_attendance);
        getSupportFragmentManager().beginTransaction()
            .replace(R.id.container, new Attendance_fragment())
            .commit();
    }
}
```

Student_home:-

```
package com.android.tourguide;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import com.android.tourguide.Student;
import java.security.PublicKey;

public class Student_home extends AppCompatActivity {

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

        getSupportFragmentManager().beginTransaction()
            .replace(R.id.container, new home_fragment())
            .commit();
    }
}
```

Student_Schedule:-

```
package com.android.tourguide;

import android.app.Activity;
import android.app.AlertDialog;
import android.content.DialogInterface;
import android.content.Intent;
import android.database.Cursor;
import android.support.design.widget.FloatingActionButton;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.ListView;
import android.widget.Toast;

import java.util.ArrayList;

public class Student_schedule extends AppCompatActivity {

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

        getSupportFragmentManager().beginTransaction()
            .replace(R.id.container, new Attendance_fragment())
            .commit();
    }
}
```

Student_sign:-

```
package com.android.tourguide;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import static android.R.attr.id;

public class student_sign extends AppCompatActivity {

    studentbaseAdapter studentAdapter;
    Button btnCreateAccount;
    EditText editTextUserName,editTextPassword,editTextConfirmPassword;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_student_sign);

        studentAdapter=new studentbaseAdapter(this);
        studentAdapter=studentAdapter.open();

        // Get References of Views
        editTextUserName=(EditText)findViewById(R.id.editTextUserName);
        editTextPassword=(EditText)findViewById(R.id.editTextPassword);
        editTextConfirmPassword=(EditText)findViewById(R.id.editTextConfirmPassword);

        btnCreateAccount=(Button)findViewById(R.id.enter);
        btnCreateAccount.setOnClickListener(new View.OnClickListener() {

            public void onClick(View v) {
                // TODO Auto-generated method stub

                String userName=editTextUserName.getText().toString();
                String password=editTextPassword.getText().toString();
                String confirmPassword=editTextConfirmPassword.getText().toString();
```



```

        // check if any of the fields are vaccant
        if(userName.equals("")||password.equals("")||confirmPassword.equals(""))
        {
            Toast.makeText(getApplicationContext(), "Field Vaccant",
Toast.LENGTH_LONG).show();
        }
        // check if both password matches
        else if(!password.equals(confirmPassword))
        {
            Toast.makeText(getApplicationContext(), "Password does not match",
Toast.LENGTH_LONG).show();
        }
        else
        {
            // Save the Data in Database
            studentAdapter.insertEntry(userName, password);
            Toast.makeText(getApplicationContext(), "Account Successfully Created ",
Toast.LENGTH_LONG).show();
            Intent intent=new Intent(student_sign.this,profile.class);
            startActivity(intent);
        }
    }
    });
}
@Override
protected void onDestroy() {
    // TODO Auto-generated method stub
    super.onDestroy();
    studentAdapter.close();
}
}

```

Fragments and Adapters:-

- 1) Attendance Fragment
- 2) Home Fragment
- 3) Schedule Fragment
- 4) List Adapter
- 5) Fragment Adapter

Attendance Fragment:

```
package com.android.tourguide;

import android.net.Uri;
import android.os.Bundle;
import android.support.annotation.Nullable;
import android.support.design.widget.FloatingActionButton;
import android.support.v4.app.Fragment;
import android.util.Log;
import android.view.LayoutInflater;

import java.util.ArrayList;

import static android.support.v7.widget.AppCompatDrawableManager.get;

public class Attendance_fragment extends Fragment {

    studentbaseAdapter studentAdapter;
    Student_display student=new Student_display();
    public String username;

    ListView listView;
    ArrayList<String> dates;
    ArrayList<String> datesALONE;
    ArrayList<Integer> hourALONE;
    ArrayList<Boolean> atts;
    private View v;

    @Nullable
    @Override
    public View onCreateView(LayoutInflater inflater, @Nullable ViewGroup container,
```

```

@Nullable Bundle savedInstanceState) {

    View view = inflater.inflate(R.layout.activity_student_attendance,
        container, false);

    return view;
}
}

```

Home Fragment:-

```
package com.android.tourguide;
```

```

import android.database.Cursor;
import android.net.Uri;
import android.os.Bundle;
import android.support.annotation.Nullable;
import android.support.v4.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;

import android.view.ViewGroup;
import android.widget.TextView;

public class home_fragment extends Fragment
{

    studentbaseAdapter studentAdapter;
    Student_display student=new Student_display();
    public String username="";

    @Nullable
    @Override
    public View onCreateView(LayoutInflater inflater, @Nullable ViewGroup container,
@Nullable Bundle savedInstanceState)
    {
        View view = inflater.inflate(R.layout.activity_student_home,
            container, false);

        studentAdapter = new studentbaseAdapter(getActivity());
        studentAdapter = studentAdapter.open();

        //    EditText editText=(EditText)container.findViewById(R.id.editname);
        //    String username=editText.getText().toString();

```

```

        username=student.Username();

        if (username != null)
        {
            Cursor _cursor = studentAdapter.getSinlgeEntry(username);
            //      int id = _cursor.getInt(0);
            String fees = _cursor.getString(2);
            String School = _cursor.getString(3);
            String Session = _cursor.getString(4);
            String phone = _cursor.getString(5);

            TextView textView = (TextView) view.findViewById(R.id.name);
            textView.setText(username);
            TextView textView1= (TextView) view.findViewById(R.id.school);
            textView1.setText(School);
            TextView textView2 = (TextView) view.findViewById(R.id.year);
            textView2.setText(Session);
            TextView textView3 = (TextView) view.findViewById(R.id.Phone);
            textView3.setText(phone);
            TextView textView4 = (TextView) view.findViewById(R.id.Fees);
            textView4.setText(fees);
        }
        return view;
    }
}

```

Schedule Fragment:-

```
package com.android.tourguide;
```

```

import android.content.Intent;
import android.database.Cursor;
import android.os.Bundle;
import android.support.annotation.Nullable;
import android.support.design.widget.FloatingActionButton;
import android.support.v4.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;

```

```

import java.util.ArrayList;

import static android.os.Build.VERSION_CODES.M;
import static android.support.v7.widget.AppCompatDrawableManager.get;

public class schedule_fragment extends Fragment {

    ListView listView;
    ArrayAdapter adapter;
    ArrayList<String> subs;
    ArrayList<String> subx;
    ArrayList<String> times;
    studentbaseAdapter studentAdapter;

    Student_display student_display=new Student_display();
    public String username;

    @Nullable
    @Override
    public View onCreateView(LayoutInflater inflater, @Nullable ViewGroup container,
    @Nullable Bundle savedInstanceState)
    {
        View view = inflater.inflate(R.layout.activity_student_schedule,
            container, false);

        FloatingActionButton fab = (FloatingActionButton)view.findViewById(R.id.fab_sch);
        assert fab != null;
        fab.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent launchIntent = new Intent(getActivity(), make_schedule.class);
                startActivity(launchIntent);
            }
        });
        studentAdapter = new studentbaseAdapter(getActivity());
        studentAdapter = studentAdapter.open();

        username=student_display.Username();

        subs = new ArrayList<>();
        times = new ArrayList<>();
        subx = new ArrayList<>();

        listView = (ListView)view.findViewById(R.id.schedulerList);
    }
}

```

```
// String qu = "SELECT * FROM SCHEDULE WHERE USERNAME="+username;
Cursor cursor= studentAdapter.schedule(username);

if (cursor == null || cursor.getCount() == 0) {
    Toast.makeText(getActivity(), "No Schedules Available",
Toast.LENGTH_LONG).show();
}
else {
    cursor.moveToFirst();
    while (!cursor.isAfterLast()) {
        subx.add(cursor.getString(1));
        subs.add(cursor.getString(1) + "\nfor " + cursor.getString(0) + "\nat " +
cursor.getString(2) + " : " + cursor.getString(3));
        times.add(cursor.getString(2));
        cursor.moveToNext();
    }

}

    ArrayAdapter adapter = new ArrayAdapter(getActivity(),
android.R.layout.simple_list_item_1, subs);
    listView.setAdapter(adapter);
    return view;
}

}
```

List Adapter:-

```
package com.android.tourguide;

import android.app.Activity;
import android.content.Context;
import android.util.Log;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.widget.CheckBox;
import android.widget.TextView;

import java.util.ArrayList;

public class listAdapter extends ArrayAdapter {

    ArrayList<String> students;
```

```

ArrayList<Boolean> attendanceList;
Context context;
Activity activity;
Manage manage;

public listAdapter(Context context,ArrayList<String> name) {
    super(context,R.layout.list_ele,name);
    // TODO Auto-generated constructor stub
    this.context = context;
    this.students = name;

    attendanceList = new ArrayList<>();
    for(int i=0; i<students.size(); i++)
    {
        attendanceList.add(new Boolean(true));
    }
}

@Override
public int getCount() {
    return students.size();
}

@Override
public Object getItem(int position) {
    return students.get(position);
}

@Override
public long getItemId(int position) {
    return position;
}

@Override
public View getView(final int position, View convertView, ViewGroup parent)
{
    LayoutInflater inflater = ((Activity)context).getLayoutInflater();
    convertView = inflater.inflate(R.layout.list_ele, parent, false);

    if (convertView == null) {
        LayoutInflater vi = LayoutInflater.from(activity);
        convertView = vi.inflate(R.layout.list_ele, null);
    }
    final int pos=position;

```

```

        TextView textView = (TextView) convertView.findViewById(R.id.attendanceName);
        textView.setText(students.get(position));
        final CheckBox cb = (CheckBox) convertView.findViewById(R.id.attMarker);

        cb.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                attendanceList.set(pos,cb.isChecked());
                Log.d("Attendance", students.get(position).toString() + " is absent " +
attendanceList.get(position));
            }
        });

        return convertView;
    }
}

```

Fragment Adapter:-

```

package com.android.tourguide;

import android.content.Context;
import android.net.Uri;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.app.FragmentManager;
import android.support.v4.app.FragmentPagerAdapter;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import com.android.tourguide.R;
import com.android.tourguide.home_fragment;

public class SimpleFragmentAdapter extends FragmentPagerAdapter {

    private Context mContext;

    public SimpleFragmentAdapter(Context context, FragmentManager fm) {
        super(fm);
        mContext = context;
    }

    @Override
    public Fragment getItem(int position) {

```



```

        if (position == 0) {
            return new home_fragment();
        }
        else if(position==1)
            return new schedule_fragment();
        else {
            return new Attendance_fragment();
        }
    }

    @Override
    public int getCount()
    {
        return 3;
    }

    @Override
    public CharSequence getPageTitle(int position)
    {
        if (position == 0)
        {
            return mContext.getString(R.string.Student_Home);
        } else if(position==1)
        {
            return mContext.getString(R.string.Student_schedule);
        }
        else
            return mContext.getString(R.string.Student_Attendance);
    }
}

```

Databases:-

- 1) StudentbaseAdapter
- 2) Helper

Student base Adapter:-

```

package com.android.tourguide;

import android.content.ContentValues;
import android.content.Context;

```

```

import android.database.Cursor;
import android.database.SQLException;
import android.database.sqlite.SQLiteDatabase;

import java.sql.Time;
import java.util.ArrayList;

public class studentbaseAdapter

{

    public static final String DATABASE_NAME = "login.db";
    public static final int DATABASE_VERSION = 1;
    public static final String TABLE_NAME="LOGIN";
    public static final String TABLE_DETAILS="SIGN";
    public static final String TABLE_ATT="ATTENDENCE";
    public static final String TABLE_SCHED="SCHEDULE";
    public static final int NAME_COLUMN = 1;
    // TODO: Create public field for each column in your table.
    // SQL Statement to create a new database.
    public static final String DATABASE_CREATE = "create table "+TABLE_NAME+
        "( " + "ID"+" INTEGER PRIMARY KEY AUTOINCREMENT,"+ "USERNAME text,FEES
text,SCHOOL text,YEAR text,PHONE text);";

    public static final String DATABASE_SIGN = "create table "+TABLE_DETAILS+
        "( " + "ID"+" integer primary key autoincrement,"+ "USERNAME text,PASSWORD
text); ";

    public static final String DATABASE_ATT = "create table "+TABLE_ATT+
        "( " + "USERNAME text,isPresent int);";

    public static final String DATABASE_SCHED= "create table "+TABLE_SCHED+
        "(+" + "USERNAME text,COURSE text,subject text,hour text, day_week text);";

    // Variable to hold the database instance
    public SQLiteDatabase db;
    // Context of the application using the database.
    private final Context context;
    // Database open/upgrade helper
    private helper dbHelper;

    public studentbaseAdapter(Context _context)
    {

```

```

        context=_context;
        dbHelper = new helper(context, DATABASE_NAME, null, DATABASE_VERSION);
    }
    public studentbaseAdapter open() throws SQLException
    {
        db = dbHelper.getWritableDatabase();
        return this;
    }
    public void insertEntry( String userName, String password)
    {
        db=dbHelper.getWritableDatabase();
        ContentValues newValues = new ContentValues();
        // Assign values for each row.
        // newValues.put("ID", id);
        newValues.put("USERNAME",userName);
        newValues.put("PASSWORD",password);
        // Insert the row into your table
        db.insert(TABLE_DETAILS, null, newValues);
        ///Toast.makeText(context, "Reminder Is Successfully Saved",
        Toast.LENGTH_LONG).show();
    }

    public void Attendance(String Username,int ispresent)
    {
        db=dbHelper.getWritableDatabase();

        ContentValues contentValues=new ContentValues();
        contentValues.put("USERNAME",Username);
        contentValues.put("isPresent",ispresent);

        db.insert(TABLE_ATT,null,contentValues);
    }

    public void Schedule(String course, String subject, String hour, String week,String
    Username)
    {
        db=dbHelper.getWritableDatabase();

        ContentValues contentValues=new ContentValues();

        contentValues.put("USERNAME",Username);
        contentValues.put("COURSE",course);
        contentValues.put("subject",subject);
        contentValues.put("hour",hour);
        contentValues.put("day_week",week);
    }

```

```

        db.insert(TABLE_SCHED,null,contentValues);
    }

    public void insertdetails( String id,String userName,String fees,String phone,String
school,String year)
    {
        db=dbHelper.getWritableDatabase();
        ContentValues newValues = new ContentValues();
        // Assign values for each row.
        int _id=Integer.parseInt(id);
        newValues.put("ID",_id);
        newValues.put("USERNAME",userName);
        newValues.put("FEES",fees);
        newValues.put("SCHOOL",school);
        newValues.put("YEAR",year);
        newValues.put("PHONE",phone);
        // Insert the row into your table
        db.insert(TABLE_NAME, null, newValues);
        ///Toast.makeText(context, "Reminder Is Successfully Saved",
Toast.LENGTH_LONG).show();
    }

    public String getpassword(String username)
    {
        db = dbHelper.getReadableDatabase();
        Cursor cursor=db.query(TABLE_DETAILS,null, "USERNAME=?", new
String[]{username}, null, null, null);
        if(cursor.getCount()<1) // UserName Not Exist
        {
            cursor.close();
            return "NOT EXIST";
        }
        cursor.moveToFirst();
        String password= cursor.getString(cursor.getColumnIndex("PASSWORD"));
        return password;
    }
    public Cursor getSinlgeEntry(String username)
    {
        db = dbHelper.getReadableDatabase();

        Cursor cursor=db.rawQuery( "select * from LOGIN where USERNAME = ?", new
String[] {username});

        cursor.moveToFirst();

```

```

        return cursor;
    }

    public ArrayList<String> getAllStringValues() {
        ArrayList<String> yourStringValues = new ArrayList<String>();
        Cursor result = db.query(true, TABLE_NAME,
            new String[] { "USERNAME" }, null, null, null, null,
            null, null);

        if (result.moveToFirst()) {
            do {
                yourStringValues.add(result.getString(result
                    .getColumnIndex("USERNAME")));
            } while (result.moveToNext());
        } else {
            return null;
        }
        return yourStringValues;
    }

    public Cursor schedule(String username)
    {
        db = dbHelper.getReadableDatabase();

        Cursor cursor=db.rawQuery("select * from SCHEDULE where USERNAME = ?", new
String[] {username});

        return cursor;
    }

    public Cursor attendance(String query)
    {
        db = dbHelper.getReadableDatabase();

        Cursor cursor=db.rawQuery(query,null);

        return cursor;
    }

    public void close()
    {
        db.close();
    }
}

```

Helper Class:-

```
package com.android.tourguide;
```

```
import android.app.Activity;
import android.content.Context;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteDatabase.*;
import android.database.sqlite.SQLiteOpenHelper;
import android.util.Log;
import android.widget.Toast;
```

```
public class helper extends SQLiteOpenHelper
```

```
{
    SQLiteDatabase _db;
    Activity activity;
    public helper(Context context, String name, CursorFactory factory, int version)
    {
        super(context,name,factory,version);
    }
    @Override
    public void onCreate(SQLiteDatabase _db)
    {
        _db.execSQL(studentbaseAdapter.DATABASE_CREATE);
        _db.execSQL(studentbaseAdapter.DATABASE_SIGN);
        _db.execSQL(studentbaseAdapter.DATABASE_ATT);
        _db.execSQL(studentbaseAdapter.DATABASE_SCHED);
    }

    public boolean execAction(String qu)
    {
        Log.i("databaseHandler", qu);
        try {
            _db.execSQL(qu);
        } catch (Exception e)
        {
            Log.e("databaseHandler", qu);
            Toast.makeText(activity,"Error Occured for
execAction",Toast.LENGTH_LONG).show();
            return false;
        }
        return true;
    }
}
```

```

@Override
public void onUpgrade(SQLiteDatabase _db, int _oldVersion, int _newVersion)
{
    Log.w("TaskDBAdapter", "Upgrading from version " + _oldVersion + " to "
+_newVersion + ", which will destroy all old data");

    _db.execSQL("DROP TABLE IF EXISTS " + "TEMPLATE");
    // Create a new one.
    onCreate(_db);
}
}

```

Advantages:-

There are many advantages with the use of this application

- Store personal details with username and password known
- To remind about the schedule
- Can check the attendance frequently.
- User can check all the users who are going through particular course.
- User can simply add the schedule so that he can be remembered that he has to attend some event.

Future Work:

We are planning to make more changes as the app stands with more updates coming in future.

- We are planning to make full Student information app so that he can use it more efficiently.
- Planning to add attendance to the app so that he can check in each class that if he was absent or present.
- Also we decided to add management login system so that the management can update the events and also the attendance.
- At present we have three tabs for home, Schedule and attendance in future we will add on more so that where we can display all emergency details and also common events undergoing in the campus.
- We can also complaint section so that complaint can be directed to campus team.
- And also finally we are going to launch the app in play store which looks more good with better UI.

Bibliography:

Android developers - <https://developer.android.com/index.html>

Stack Overflow - <http://stackoverflow.com/documentation/android/topics>

