A
Project Report
On

"Else International School App"

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Under the supervision of

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Charotar University of Science and Technology
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Degree of Bachelor of Technology
in Information Technology
IT345 Software Group Project-II (5th sem)

Submitted at

CHARUSAT
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY
Chandubhai S. Patel Institute of Technology
At: Changa, Dist: Anand – 388421
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CHARUSAT
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

CERTIFICATE

This is to certify that the report entitled "**Else International School App"** is a bonafied work carried out by **Harsh Patel (16IT072)** under the guidance and supervision of **Prof. Nirav Bhatt** for the subject **Software Group Project-II (IT345)** of **5th** Semester of Bachelor of Technology in **Information Technology** at Faculty of Technology & Engineering – CHARUSAT, Gujarat.

To the best of my knowledge and belief, this work embodies the work of candidate herself, has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation and language for being referred to the examiner.

Under supervision of,

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ACKNOWLEDGEMENT

Hereby thanking my torchbearers with an immense pleasure who have helped me and stood with me through this project.

My first and foremost thanking goes to my subject faculty Prof. Niarv Bhatt sir for giving me time to solve my problems and help me collecting the resources of my project.

Now I would like to forward my thanking to Prof.Parth Shah, Head of Information Technology Department, Charotar institute of Technology.

Harsh Patel (16IT072)

<u>ABSTRACT</u>

The prime objective of "Else International School app is to create full-fledged android application which is going to help students for solving their basic requirements. It can also be used for teachers also. It is an effort to reduced time and money for solving basic purposes like paper work, posters for advertisement, and school diaries for every student and so on.

CHAPTER- 1: INTRODUCTION

1.1: Description

Else International School app is an Android based Application in which user have following options.

Else School App manages all activities like notice board, attendance, upcoming events, results, school facilities and daily diary for students as well as for faculties. App also includes enquiry and contact us if any parent has some query. Students must need to login with their respective IDs to see private events.

1.2: Purpose:

The purpose of this project is to help parents to be in touch with school activities, upcoming school events and also eliminating the paperwork.

1.3: Scope:

This school app provides enquiry section, results and every member of this school has its own personal diary so that any record or data one would want to store, he can do it.

This school app cannot provide facility of online fees payment.

1.4: Objective:

- ❖ Helps parents to be in touch with school activities
- ❖ Upcoming school events
- ❖ Eliminating the paperwork

CHAPTER- 2: SYSTEM REQUIREMENTS

2.1: User Characteristics:

User must know how to operate basic android smart phone and if user is member of this school then user must have its own ID and password for login.

2.2: Tools and Languages Used (For Development):

Android Programming

Java for logic purpose

Android version 3.0 and higher version

Standard Development Kit(SDK)
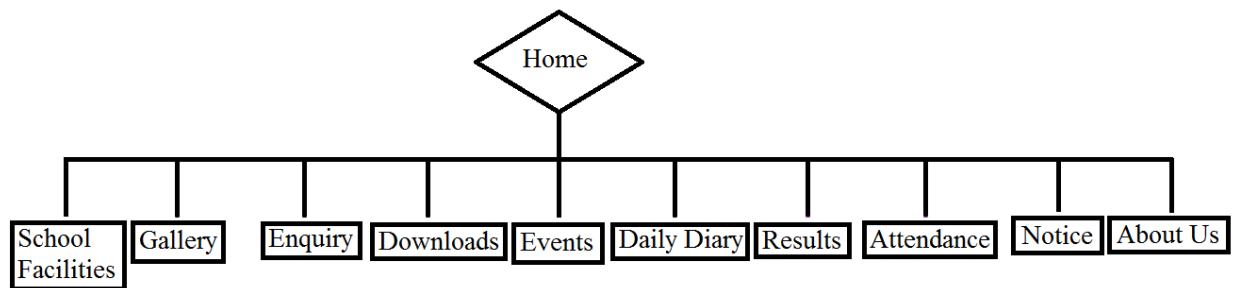
JDK

Permissions:

INTERNET

ACCESS_NETWORK_STATE

LOCATION

2.3: Assumptions and Dependencies:

We have assumed that user has the basic knowledge of operating an android phone.

CHAPTER-3: SYSTEM DESIGN

3.1: Project Flow:

CHAPTER- 4: IMPLEMENTATION PLANNING

4.1: Implementation Environment:

Android single user.

4.2: Coding Standards

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.a4android.smartschool.elseschools"
    android:versionCode="3"
    android:versionName="1.0.3">

    <uses-permission android:name="android.permission.INTERNET" />
    <uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />
    <uses-permission android:name="android.permission.VIBRATE" />
    <uses-permission android:name="android.permission.GET_ACCOUNTS" />
    <uses-permission android:name="android.permission.WAKE_LOCK" />
    <uses-permission android:name="android.permission.DISABLE_KEYGUARD"/>
    <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
    <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE" />
    <uses-permission android:name="android.permission.RECEIVE_SMS" />

    <!-- gcm user perpose pass permission -->
    <uses-permission android:name="com.google.android.c2dm.permission.RECEIVE" />
    <uses-permission
android:name="com.a4android.smartschool.elseschools.permission.C2D_MESSAGE" />
    <permission
        android:name="com.a4android.smartschool.elseschools.permission.C2D_MESSAGE"
        android:protectionLevel="signature" />

    <application
        android:allowBackup="true"
        android:name="com.a4android.smartschool.elseschools.SSAApplication"
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name"
        android:theme="@style/MyMaterialTheme">

        <activity
            android:name="com.a4android.smartschool.elseschools.SplashActivity"
            android:label="@string/app_name"
            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="com.a4android.smartschool.elseschools.FullScreenGAlleryAlbum_Activity"
            android:screenOrientation="portrait"></activity>

        <activity android:name="com.a4android.smartschool.elseschools.MainActivity"
            android:logo="@drawable/ic_launcher"
            android:screenOrientation="portrait"
            android:windowSoftInputMode="adjustResize">

            <intent-filter>
                <action android:name="android.intent.action.SEARCH" />
```

```xml
                </intent-filter>

                <!-- Points to searchable meta data -->
                <meta-data android:name="android.app.searchable"
                    android:resource="@xml/searchable"/>

        </activity>

        <activity
android:name="com.a4android.smartschool.elseschools.Get_Mobile_for_RegistrationActivity"
            android:label="@string/registration"
            android:windowSoftInputMode="adjustResize" >
        </activity>

        <activity
android:name="com.a4android.smartschool.elseschools.VerificationCodeActivity"
            android:screenOrientation="portrait">
        </activity>

        <activity
android:name="com.a4android.smartschool.elseschools.ChangePasswordActivity"
            android:ScreenOrientation="portrait">
        </activity>

        <activity
android:name="com.a4android.smartschool.elseschools.NoticeBoardActivity"
            android:screenOrientation="portrait">
        </activity>

        <activity
android:name="com.a4android.smartschool.elseschools.FullScreenPhotoViewerActivity"
            android:screenOrientation="portrait">
        </activity>


        <activity
android:name="com.a4android.smartschool.elseschools.AttendanceMonthlyDetailActivity"

android:parentActivityName="com.a4android.smartschool.elseschools.MainActivity"
            android:screenOrientation="portrait"
            android:windowSoftInputMode="adjustResize" />

        <service
android:name="com.a4android.smartschool.elseschools.util.GcmIntentService"
android:enabled="true"/>

        <receiver
android:name="com.a4android.smartschool.elseschools.util.GcmBroadcastReceiver"
            android:permission="com.google.android.c2dm.permission.SEND" >
            <intent-filter>
                <action android:name="com.google.android.c2dm.intent.RECEIVE" />
                <category android:name="com.a4android.smartschool.elseschools" />
            </intent-filter>
        </receiver>

        <meta-data
            android:name="io.fabric.ApiKey"
            android:value="db894de3ed272f6dc7789e49e3892eb2fe91a7ad" />
    </application>

</manifest>
```
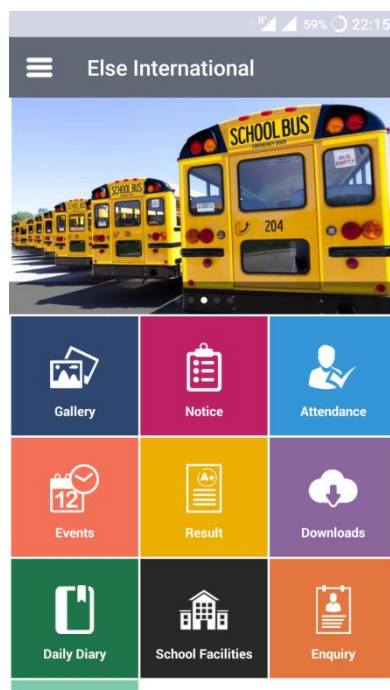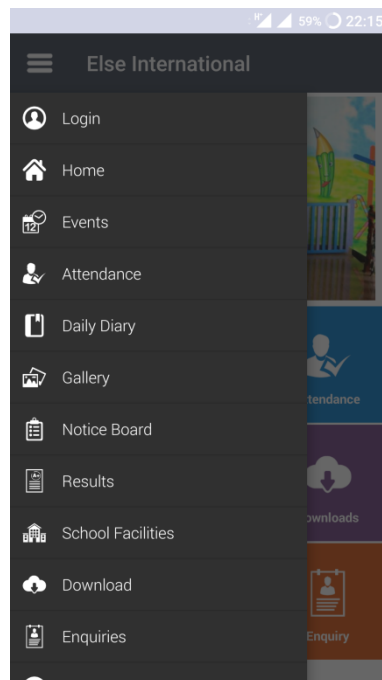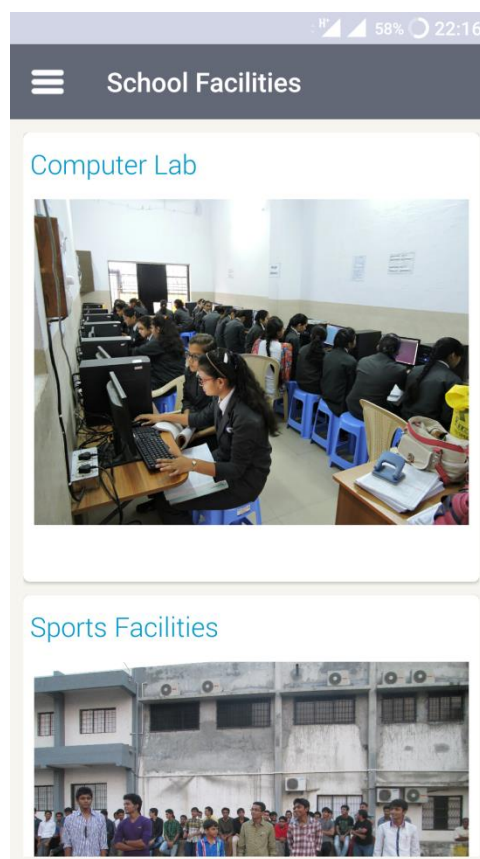
4.3: Snapshots of project

Fig 4.3.1:

Fig 4.3.2:

Fig 4.3.3:

Fig 4.3.4:

Fig 4.3.5:
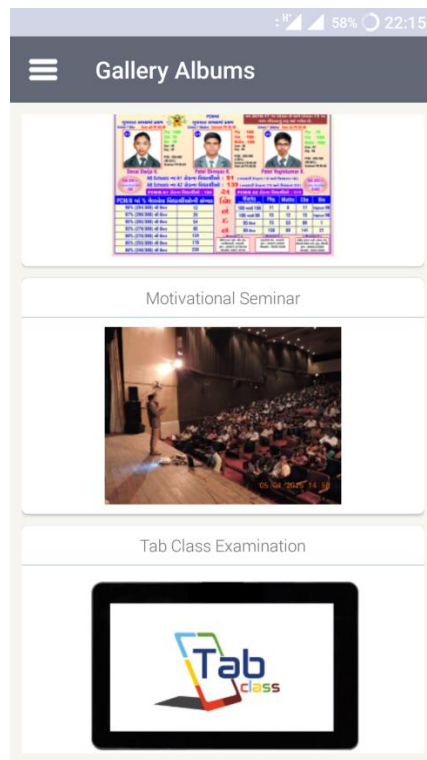
Fig 4.3.6:
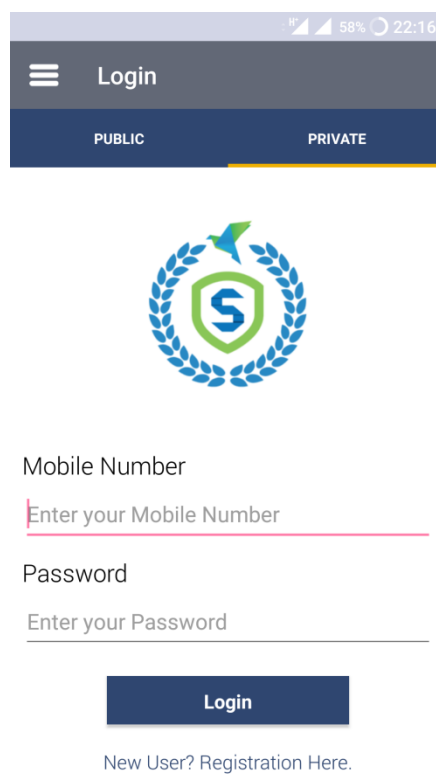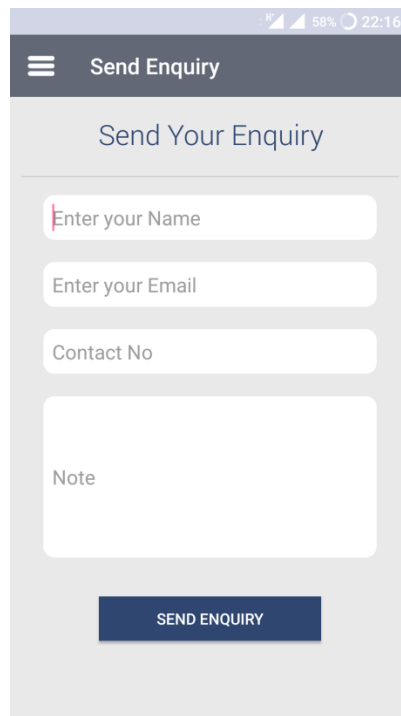
Fig 4.3.7:

Fig 4.3.8:
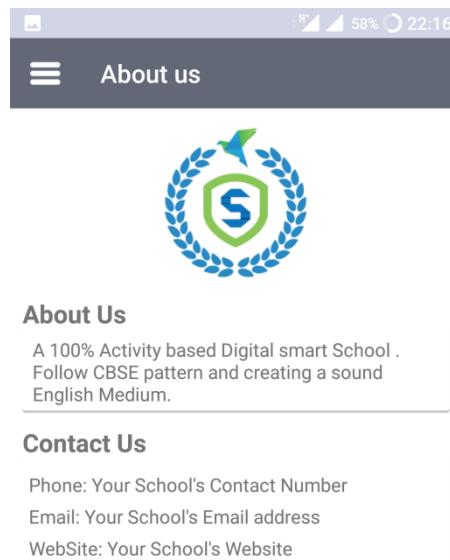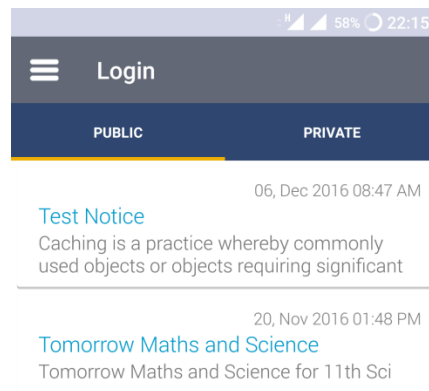
Fig 4.3.9:

Fig 4.3.10:
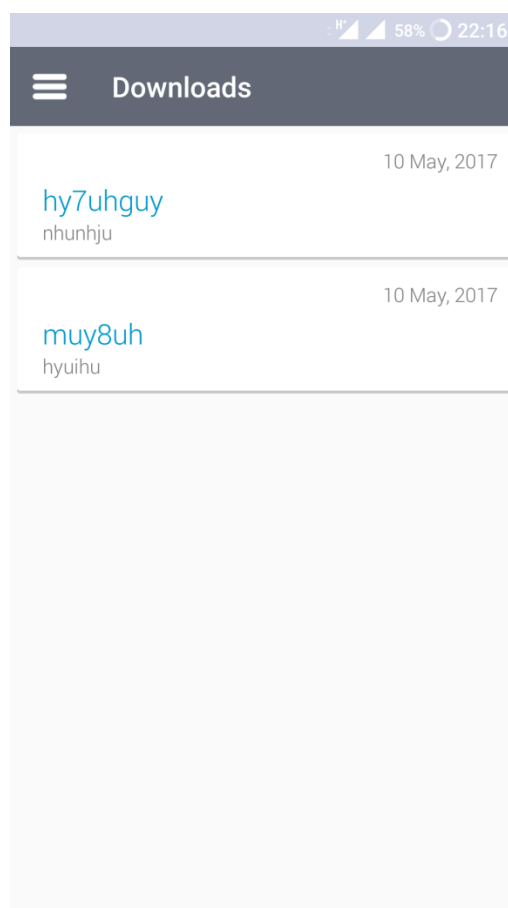
CHAPTER-5: LIMITATIONS AND FUTURE ENHANCEMENT

5.1: Limitations

- Only school member who has ID and password can see private events.

- Online fees payment system is not available.

- Feedback form is not there.

5.2: Future Enhancements

- Make the app flaw-less

    o Fixing bugs

- Security

    o Make Payment more secure

- Reduce Time at First Launch

    o Making of database background task

CHAPTER 6: CONCLUSION

6.1: Conclusion

Hence I conclude that our app will provide help to the students with the help of which they can easily supervise the school activities and parents can also get in touch with school activities. The main advantage is elimination of paperwork of this app.

6.2: References

- **http://www.vogella.com/tutorials/android.html**

- **https://developer.android.com/docs/**

- **https://www.androidhive.info/**