Mahatma Gandhi Shikshan Mandal's

Smt. Sharchchandrika Suresh Patil Institute of Technology (Polytechnic), Chopda



A Project Report On

"College Management Application"

Submitted By: -

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This is to certify that Students of CO6I <u>Chetan Mahesh Shimpi</u> of SIXTH Semester of Diploma in Computer Engineering of Institute, SMT. SHARACHHANDRIKA SURESH PATIL INSTITUTE OF TECHNOLOGY (POLYTECHNIC) (Code:0061) has completed the Capstone Project satisfactorily in the Subject – CPE(22060) for the Academic Year 2020- 2021 as prescribed in the curriculum.

Place: **Chopda**

Date: / / 2020

Subject Teacher

Head of the Department





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ACKNOWLEDGMENTS

We take this opportunity to express our profound gratitude and deep regards to our guide Mrs. K. C. Wankhede for this her exemplary guidance, monitoring and constant encouragement throughout the project. The blessing, help and guidance given by her time to time.

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Submitted By:-

- 1. Shimpi Chetan Mahesh.
- 2. Kumbhar Mayur Vasudev.
- 3. Mahajan Shubham Rajendra.
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ABSTRACT

The college management system based the particular College related and information about the college. It's the time to change from conventional website to app, which has become the part of our daily routine. We are introducing "SSP_Poly.apk" the android application software which would be a miniature of our college website. It works not only as a website, but also it can work as a small college management application. The college Management system in focused the college history and Events programs, placement of the information .

The modules can be subdivided the two-part **admin** app and **user** app. The application becomes also a mobile version of our official website. It gives us more comfort and a better user interface. Students can interact with faculties directly. Latest news and updates about college is got through notification provided by college admin. The application provides online video lectures, online books in pdf form, and it also provide the college location from google map.

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1. INTRODUCTION

The era of mobile technology opens the windows to the android app. The websites are vanishing and the mobile phones are emerging. It's the time to change from conventional websites to apps, which has become the part of our daily routine. We are introducing "SSP Poly.apk" the android application software which would be a miniature of our college website. It works not only as a website, but also it can work as a small college Management software. Our multipurpose program is considering the user as either a sspian or non-sspian, student or parent, faculties or office staffs individually. Project gives a total solution to everyone. The application becomes also a Mobile version of our official website. It gives us more comfort and a better user interface. It acts as an overview about the campus to a non sspian like the college history, departments, workshops, faculties, library etc & major events conducted. It acts as a college assistant for sspian. Latest news and updates about college is got through notifications. Individual account can be created for students. Department organizations can invite or make publicity to their events. It is also useful for the parents to communicate college authorities, faculties etc. Students can interact with faculties directly. Latest news and updates about college is got through notifications. The application gathers your current location and shows the exact minimal route to the SSP Polytechnic campus accessing the GPS.

2. SYSTEM STUDY

2.1 IMPORTANCE OF JAVA:

Java has had a profound effect on the Internet. This is because Java has had a profound effect on the Internet. This is because Java expands the Universe of objects that can move about freely in Cyberspace. In a network, two categories of objects are transmitted between the Server and the Personal computer. They are: Passive information and Dynamic active programs. The Dynamic, Self-executing programs cause serious problems in the areas of Security and probability.

2.1.1 Java can be used to create two types of programs:-

Applications and Applets:-

An application is a program that runs on our computer under the operating system of that computer. It is more or less like one creating using C or C++. Java's ability to create Applets makes it important. An Applet is an application designed to be transmitted over the Internet and executed by a Java compatible web browser. An applet is actually a tiny Java program, dynamically downloaded across the network, just like an image. But the difference is, it is an intelligent program, not just a media file. It can react to the user input and dynamically change.

2.1.2 Features of Java

Security-

Every time you that you download a normal program; you are risking a viral infection. Prior to Java, most users did not download executable programs frequently, and those who did scan them for viruses prior to execution. Most users still worried about the possibility of infecting their systems with a virus. In addition, another type of malicious program exists that must be guarded against. This type of program can gather private information, such as credit card numbers, bank account balances, and passwords. Java code is loaded onto a machine, it is verified. So, byte code verification is integral to the compiling and executing of Java code.

Picture showing the development process of JAVA Program

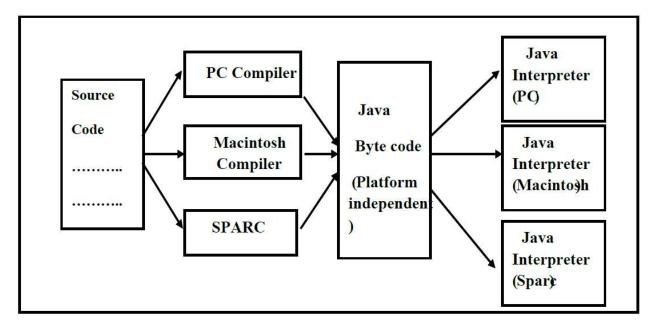


Java Architecture

Java architecture provides a portable, robust, high performing environment for development. Java provides portability by compiling the byte codes for the Java Virtual Machine, which is then interpreted on each platform by the run-time environment. Java is a dynamic system, able to load code when needed from a machine in the same room or across the planet.

Compilation of code:-

When you compile the code, the Java compiler creates machine code (called byte code) for a hypothetical machine called Java Virtual Machine (JVM). The JVM is supposed to execute the byte code. The JVM is created for overcoming the issue of portability. The code is written and compiled for one



machine and interpreted on all machines.

Fig 2.1.5-Compiling and interpreting Java Source Code

Simple

Java was designed to be easy for the Professional programmer to learn and to use effectively. If you are an experienced C++ programmer, learning Java will be even easier. Because Java inherits the C/C++ syntax and many of the objects-oriented features of C++. Most of the confusing concepts from C++ are either left out of Java or implemented in a cleaner, more approachable manner. In Java there are a small number of clearly defined ways to accomplish a given task.

Object-Oriented

Java was not designed to be source-code compatible with any other language. This allowed the Java team the freedom to design with a blank slate. One outcome of this was a clean usable, pragmatic approach to objects. The object model in Java is simple and easy to extend, while simple types, such as integers, are kept as high-performance nonobjects.

Robust

The multi-platform environment of the Web places extraordinary demands on a program, because the program must execute reliably in a variety of systems. The ability to create robust programs was given a high priority in the design of Java. Java is strictly typed language; it checks your code at compile time and run time.

2.2 IMPORTANCE OF XML:

2.2.1 What is XML?

XML stands for Extensible Markup Language. Much like HTML (or Hypertext Markup Language), XML is also a markup language. It was created as a standard way to encode data in internet-based applications. However, unlike HTML, XML is case-sensitive, requires each tag is closed properly, and preserves whitespace. XML tags are not predefined in XML. We must define our own Tags. Xml as itself is well readable both by human and machine. Also, it is scalable and simple to develop. In Android we use XML for designing our layouts because XML is lightweight language so it doesn't make our layout heavy.

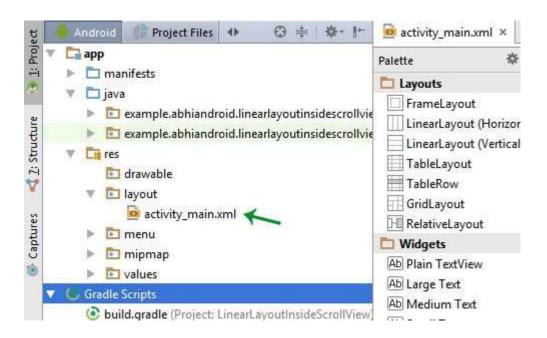
2.2.2 Different uses of XML in Android

In Android there are several purposes of using XML, each purpose is needing a specific type of xml files. Below we define each and every one.

1. Define the actual UI of an Application:

XML is well used in defining the UI of the application for the different reasons I mentioned earlier but the files that must be used to do that in Android are the **Layout XML Files** which holds all the elements(views) or the tools that we want to use in our application. Like the TextView's, Button's and other UI elements.

Location of the file in Android Studio:

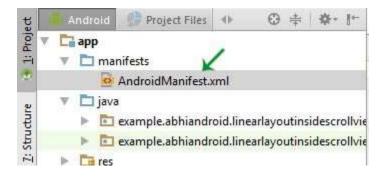


You will find out this file inside the **res** folder and inside it there is another folder named **layout** where you will get all the layout files for their respective

2. Define all the components of the Application:

XML is also used in defining the components the application contains Like Activities and their state (main or not, the theme they use, ...), the names of app's packages, receivers, services and the permissions that our application needs. All written in the **Manifest xml File (Mainfest.xml)** one of the most important files in Android App's.

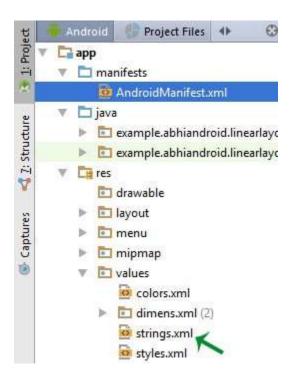
Location in Android Studio: It is located inside app > manifests folder



3. Replace the Hard-coded strings with a single string:

XML helps us as well to define all the strings in a file called **String's xml File(strings.xml)** which allows us to access them in our app (Activity or in Layout XML files) to enhance the reusability of the code and avoid Hard-coded programming.

Location in Android Studio:

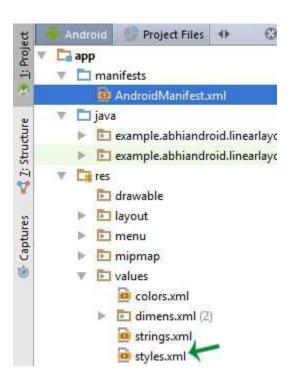


4. Define the different styles and looks for the UI of the application:

In addition to all the previous functionalities, XML also allows you to define our App's custom themes and styles in the **Styles xml File(styles.xml)**.

Location in Android Studio:

College Management Application



5. Provide various graphics to the elements or views of the application:

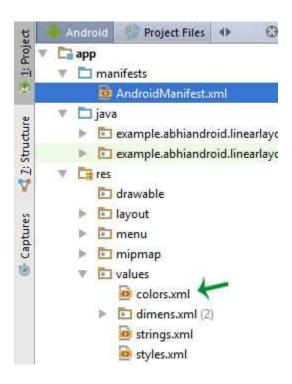
XML also helps in providing various graphics to the elements or views to create a custom UI, that we put in **Drawable xml Files**.

6. Define the App's colours:

XML offers the privilege of defining custom colours that we wants to use in our apps. We simply define the colours in the **Colour xml File (colors.xml)** and used them in our app from this file.

Location in Android Studio

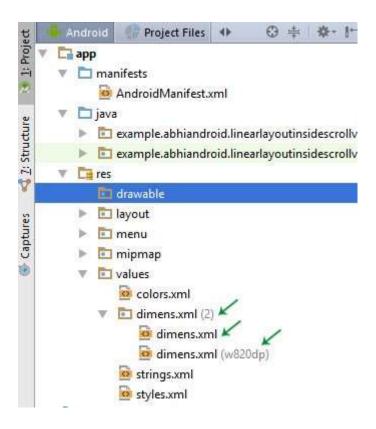
College Management Application



7. Define the dimensions of the Views:

After defining strings, styles and colours XML allows us also to define Dimensions yet in a different file called **Dimension xml File(dimens.xml)**.

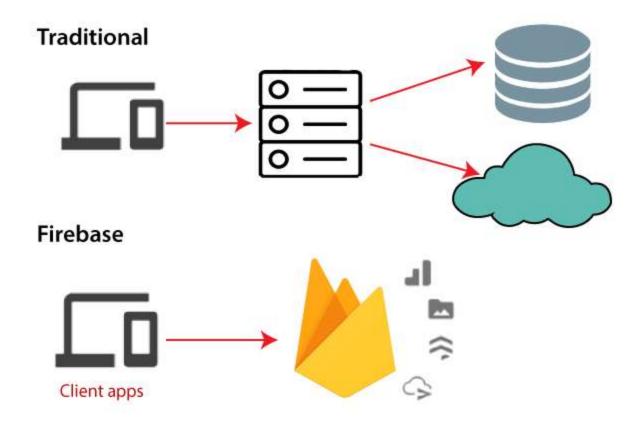
Location in Android Studio:



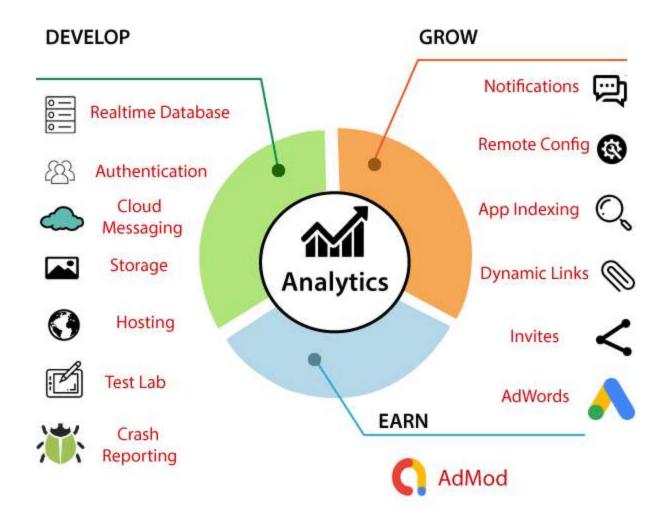
2.3 IMPORTANCE OF FIREBASE:

In the era of rapid prototyping, we can get bright ideas, but sometimes they are not applicable if they take too much work. Often, the back-end is the limiting factor many considerations never apply to server-side coding due to lack of knowledge or time.

Firebase is a Backend-as-a-Service (BaaS) which started as a YC11 start-up. It grew up into a next-generation app-development platform on Google Cloud Platform. Firebase (a NoSQLjSON database) is a real-time database that allows storing a list of objects in the form of a tree. We can synchronize data between different devices.



Google Firebase is Google-backed application development software which allows developers to develop **Android**, **IOS**, and **Web apps**. For reporting and fixing app crashes, tracking analytics, creating marketing and product experiments, firebase provides several tools.



Firebase has three main services, i.e., a real-time database, user authentication, and hosting. We can use these services with the help of the Firebase iOS SDK to create apps without writing any server code.

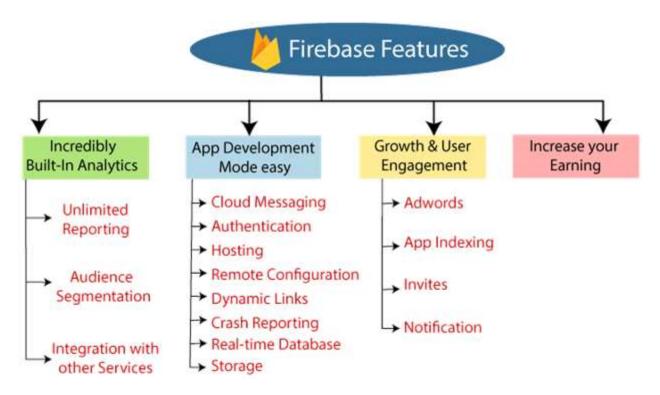
Why use Firebase?

- Firebase manages real-time data in the database. So, it easily and quickly exchanges the data to and from the database. Hence, for developing mobile apps such as live streaming, chat messaging, etc., we can use Firebase.
- Firebase allows syncing real-time data across all devices iOS, Android, and
 Web without refreshing the screen.
- Firebase provides integration to Google Advertising, AdMob, Data Studio, BigQuery DoubleClick, Play Store, and Slack to develop our apps with efficient and accurate management and maintenance.

- Everything from databases, analytics to crash reports are included in Firebase. So, the app development team can stay focused on improving the user experience.
- Firebase applications can be deployed over a secured connection to the firebase server.
- Firebase offers a simple control dashboard.
- It offers a number of useful services to choose from.

Features of Firebase

Firebase has several features that make this platform essential. These features include unlimited reporting, cloud messaging, authentication and hosting, etc. Let's take a look at these features to understand how these features make Firebase essential:



• Incredibly Built-In Analytics

The analytics dashboard is one of the best features of Firebase, which is equipped with. It is free and can report 500 event types, each with 25 attributes. The

dashboard is top-notch for observing user behavior and measuring various user characteristics. Ultimately it helps us to understand how people use our app so that we can better optimize it in the future.

Key features

Unlimited Reporting

It allows for reporting of 500 distinct events.

> Audience Segmentation

We can identify custom audiences in the Firebase console based on device data, custom events, or user properties. After that, we can use these audiences that we specified with other Firebase attributes when targeting new features or notifications.

> Integration with Other Services

We can integrate Firebase with other services that can utilize our business apps such as Big Query, Firebase Notifications, Firebase Remote Configuration, Firebase Crash Reporting, and Google Tag Manager.

App Development Made Easy

With Firebase, we can focus our time and attention on developing the best possible applications for our business. The operation and internal functions are very solid. They have taken care of the Firebase Interface. We can spend more time in developing high-quality apps that users want to use.

There are the following features which we can develop:

Cloud Messaging

Firebase allows us to deliver and receive messages in a more reliable way across platforms.

Authentication

Firebase has little friction with acclaimed authentication.

> Test Lab

Test in the lab instead on your users.

> Hosting

Firebase delivers web content faster.

> Remote Configuration

It allows us to customize our app on the go.

Dynamic Links

Dynamic Links are smart URLs which dynamically change behavior for providing the best experience across different platforms. These links allow app users to take directly to the content of their interest after installing the app - no matter whether they are completely new or lifetime customers.

Crash Reporting

It keeps our app stable.

Real-time Database

It can store and sync app data in real-time.

Storage

We can easily store the file in the database.

Growth and User Engagement

One of the most important aspects of application development is being able to develop and engage with users over time. Firebase has a lot of built-in features, which ensures that it is exactly what we do. With the platform leading to commercial apps, it is really at the center of what makes Firebase so great.

Here are some user interaction aspects which make development a piece of cake:

> AdWords

Linking AdWords is very easy, and with it, we can segment and define our user base using Firebase Analytics. Also, it is easy to improve our targeting in marketing advertising campaigns. Some other benefits include conversion tracking, crossnetwork, attribution networks, and LTV (Calculating Customer Lifetime Value).

> App Indexing

With app indexing, we can work on aspects like re-engaging with our app, especially by surfing the in-app content within Google search results. It will also help in ranking our application in Google search results.

Invites

It is a perfect tool for referrals and sharing. Get the help of our users to develop our app easily via email or SMS, allowing their existing users to share our app or in-app content. If we use this feature in combination with promotions, then we can also work towards acquiring new customers and retaining our existing customers.

Notifications

We can manage information campaigns very easily, including the ability to set and schedule messages to engage users at the right time of day. These notifications are completely free. These are unlimited for both iOS and Android. There is only one dashboard to worry about, and if we integrate with Firebase Analytics, we can use various user segmentation features.

• Increase Your Earnings

Of course, the thing about having an app or any other business strategy is that we can increase our earnings. With the feature of AdMob, we can monetize our app, considering the best possible experience for our users. Showing real-time ads to millions of Google advertisers, choosing a format which suits our app, and working with over 40 top ads networks using AdMob Mediation, we can make app development well worth it, while speaking silently.

We can also cross-promote between our apps with AdMob House ads for free!

3. SYSTEM IMPLEMENTATION

The college management system based the particular College related and information about the college. It's the time to change from conventional website to app, which has become the part of our daily routine. We are introducing "SSP Poly.apk" the android application software which would be a miniature of our college website. It works not only as a website, but also it can work as a small college Management software. Our multipurpose program is considering the user as either a sspian or non-sspian, student or parent, faculties or office staffs individually. Project gives a total solution to everyone. The application becomes also a Mobile version of our official website. It gives us more comfort and a better user interface. It acts as an overview about the campus to a non sspian like the college history, departments, workshops, faculties, library etc & major events conducted. It acts as a college assistant for sspian. Latest news and updates about college is got through notifications. Individual account can be created for students. Department organizations can invite or make publicity to their events. It is also useful for the parents to communicate college authorities, faculties etc. Students can interact with faculties directly. Latest news and updates about college is got through notifications. The application gathers your current location and shows the exact minimal route to the SSP Polytechnic campus accessing the GPS.

The modules can be subdivided the two-part admin app and user app. The application becomes also a mobile version of our official website. It gives us more comfort and a better user interface. Students can interact with faculties directly. Latest news and updates about college is got through notification provided by college admin.

Data Flow Diagram:-

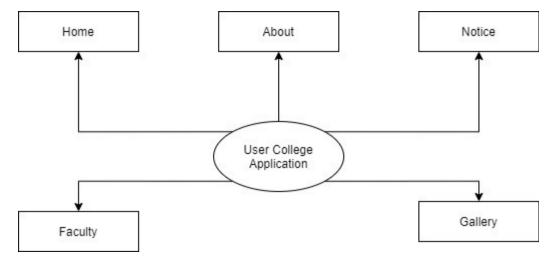


Fig. DFD of User App

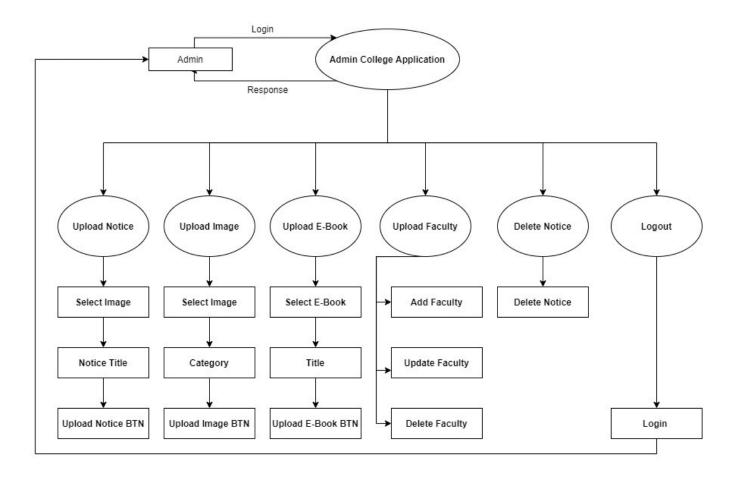


Fig. DFD of Admin App

4. SCOPE OF THE PROJECT

4.1 Project Resources

In project management terminology, resources are all the items that are required to carry out the project activities. They include people, equipment, facilities, time, or anything else required for the completion of the project. All these elements are interrelated and linked to the scope of the project. Each of them must be estimated and managed effectively if the project is to be a success.

4.2 Key project resources

User: -

Users are the most important resource for a project. User means having the right to use the app, with the right skills, at the right time.

• Admin: -

Admin are the also most important resource for a project. Admin means having the right to manage all data showing in user app, with the right skills, at the right time.

• Equipment: -

The equipment that needs to be managed as part of a project depends on the nature of the project. In public health, the equipment that is needed for the project is usually limited to office material, computers, and sometimes test equipment. The project management for equipment is much like for people resources. You have to make sure you have the right equipment in the right place at the right time and that it has the supplies it needs to operate properly.

• Time: -

Time is a critical resource for any project. Project managers who succeed in meeting their project schedule have a good chance of staying within their project budget. To enable time management, the different project activities need to be detailed and prioritized. COLLEGE MANAGEMENT APPLICATION.

4.3 Resource planning

Resource planning entails estimating the expected input in terms of time, human necessary to achieve the project objectives.

• Time allocation: -

To allocate time for project activities, use can be made of the Critical Path Method. This technique determines the shortest time possible to complete the project by calculating a critical path, or the sequence of project activities which add up to the longest overall duration. To that effect, a model of the project is constructed that includes:

- A list of all activities required to complete the project (typically categorized within a work breakdown structure),
- The time (duration) that each activity will take to completion, and
- The dependencies between the activities

Using these values, a calculation is made of the longest path of planned activities to the end of the project, as well as the earliest and latest that each activity can start and finish without making the project longer. This process determines which activities are "critical"(i.e., on the longest path) and which have "total float" (i.e., can be delayed without making the project longer). Any delay of an activity on the critical path directly impacts the planned project completion date (i.e., there is no float on the critical path).

5. PROPOSED SYSTEM

The proposed system is invented to overcome the drawback of the currently existing manual system. This system is android based application for e-lecture, books and managing other activities related to college.

College management application consist of modules (Admin App):

- 1. Authentication Module: This module provides protection of information through the mechanism of unique id (valid email address) and password therefore only authorized admin can access the database. After successfully registration, user login to system by using their unique id (email address) and password. If id and password is correct than only, he/she will be able to access the system.
- **2. Upload Notice Module:-** This module used to upload the notice in user application. The notice is in text form or image form.
- **3. Delete Notice Module:-** This module provides feature to delete uploaded notice.
- **4. Upload Image Module:-** This module used to upload image according to different categories i.e., Independence Day, convocation, another event, etc.
- 5. Upload E-Book Module:- This module used to upload books in pdf form.

- **6. Upload Faculty:-** This module provides future to upload new faculty according to departments and admin can update information of faculty and also delete the faculty data.
- **7. Logout Module:-** This module used to logout the application and jumped to login activity.

College management application consist of modules (User App):

- Home Module:- This module contains basic information about college and display college events, departments, contact detail and GPS location of college.
- **2. Notice Module:-** This module used to show all notice date wise uploaded by admin. The notice is in text form or image form.
- **3. Faculty Module:-** This module used to get information about faculty according to departments.
- **4. Images Module:-** This module used to show images according to different categories i.e., Independence Day, convocation, another event, etc.
- **5. About Module:-** This module contains basic information about college and display contact detail, admission procedure, route of college of college and basic information of library.
- **6. Video Lecture Module:-** This module used to see online video lectures after selecting department, semester and subject.
- **7. E-Book Module:-** This module used to get E-Books subject wise and we can download this E-Books.

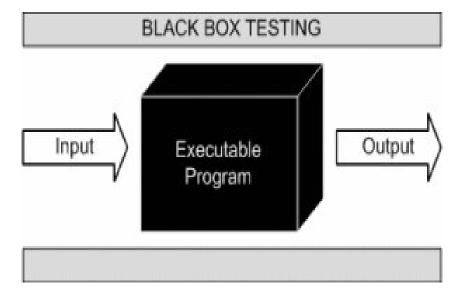
- **8. Theme Module:-** This module provides feature to the of the application. We can change theme as system default, dark and light.
- **9. Website Module:-** This module used to jump on college official website.
- **10. Share Module:-** This module used to share the application.
- **11. Rate Us Module:-** This module used to rate the application on play store.
- **12. Developer Module:-** This module used to show the information about developers of the application.
- **13. Management Module:-** This module contains information about college management.
- **14. Committees Module:-** This module displays different committees by their names and designation.
- **15. Hotel and Gymnasium Module:-** This module contains information about boys' hostel, girls' hostel and gymnasium.

6. SOFTWARE TESTING

1 Black Box Testing

- Black Box Testing, also known as Behavioral Testing, is a software testing method in which the internal structure/ design/ implementation of the item being tested is not known to the tester. These tests can be functional or nonfunctional, though usually functional.
- This can be following way:
- Input interfacing
- Processing

 Output interfacing



This method is named so because the software program, in the eyes of the tester, is like a black box; inside which one cannot see. This method attempts to find errors in the following categories:

College Management Application

- ➤ Incorrect or missing functions
- > Interface errors
- > Errors in data structures or external database access
- ➤ Behavior or performance errors
- > Initialization and termination errors

2 White Box Testing

- White Box Testing ,also known as Clear Box Testing, Open Box Testing,
 - Glass Box Testing, Transparent Box Testing, Code-Based Testing or Structural Testing is a software testing method in which the internal structure/ design/ implementation of the item being tested is known to the tester.
- The tester chooses inputs to exercise paths through the code and determines the appropriate outputs. Programming know-how and the implementation knowledge is essential.
- White box testing is testing beyond the user interface and into the nitty-gritty of a system.
- This method is named so because the software program, in the eyes of the tester, is like a white/transparent box; inside which one clearly sees.

7. RESOURCES

• Tools and Software Used:



1. Android Studio v3.6.1



2. AVD with Android Emulator and appropriate

System Image



3. Gradle Plugin



4. Android SDK

OpenJDK 5. OpenJDK 8

8. FUTURE IMPLEMENTATION

In future we will implementing following feature:-

- Online Attendance.
- Online Exam.
- Online Admission.
- Student Tracking.
- Student Fees Management.
- Staff payroll Management.

9. CONCLUSION

The era of mobile technology opens the windows to the android app . The websites are vanishing and the smart phones are emerging .It is time to change from conventional websites to apps which has become the part of our daily routine . we are introducing "SSP_Poly.apk" the android application software which would be a miniature of our college website. It works not only as a website, but also it can work as a small college Management software.

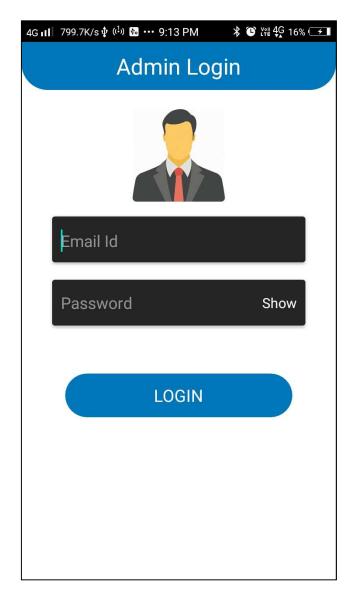
10. REFERENCES

http://www.vogella.com/tutorials/AndroidSQLite/article.html http://www.tutorialspoint.com/android/android_sqlite_database.html http://www.androidhive.info/2011/11/android-sqlite-database-tutorial/ http://www.androidhive.info/2012/07/android-gps-location-manager-tutorial/ https://developer.android.com/training/index.html

11. USER INTERFACE OF APPLICATION

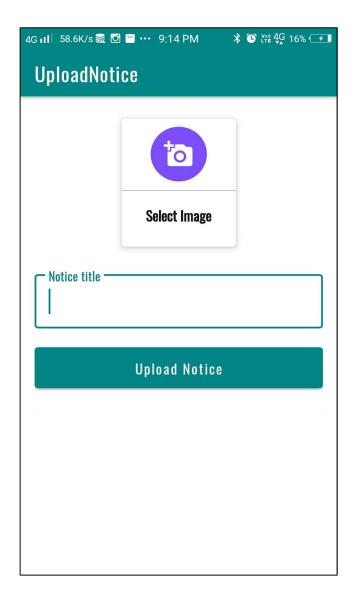
 The College Management Application is mainly divided into two parts are admin and user app:

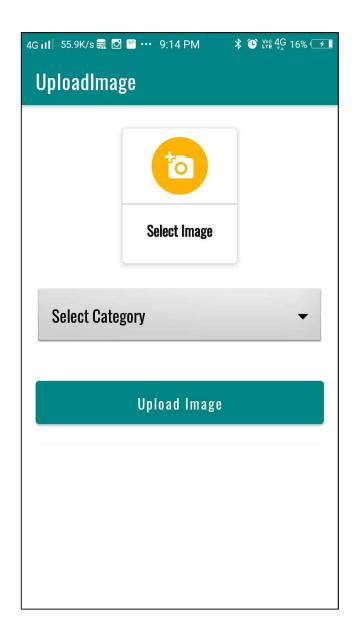
❖ Admin App :-

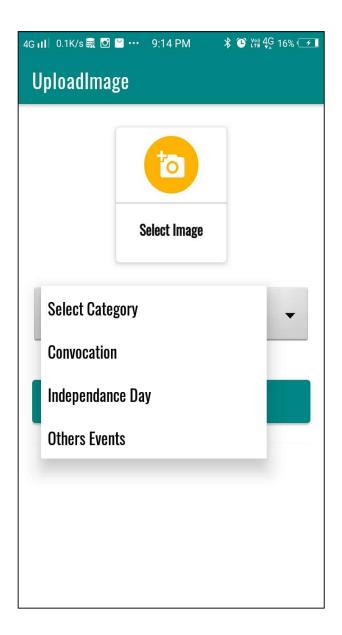




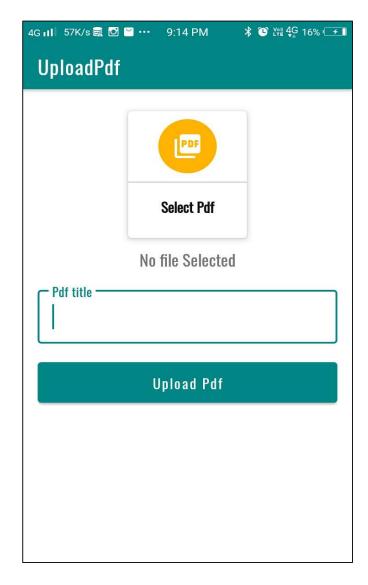


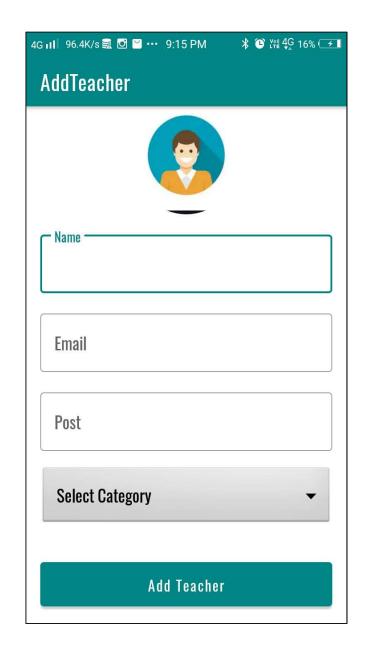


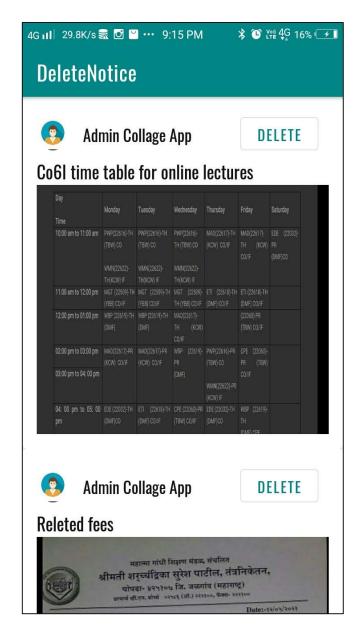


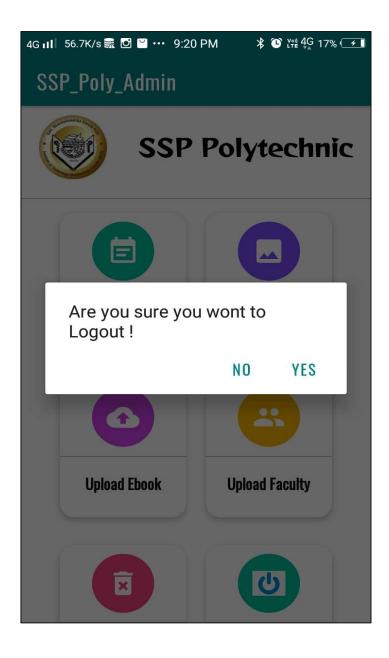


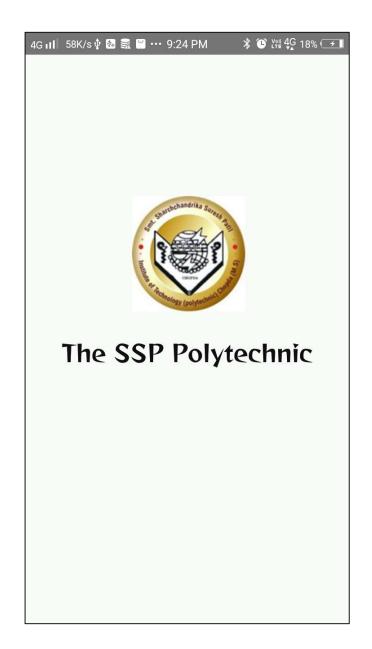














Mahatma Gandhi Shikshan Mandal's Smt. Sharchchandrika Suresh Patil Institute of technology (Polytechnic) is a realization of a dream by Late Smt. Sharchchandrika Akka (Ex-Education Ministress, Maharashtra State) and her husband Dadasaheb Dr. Suresh G. Patil (Founder President MGSM, Chopda). It's a premier

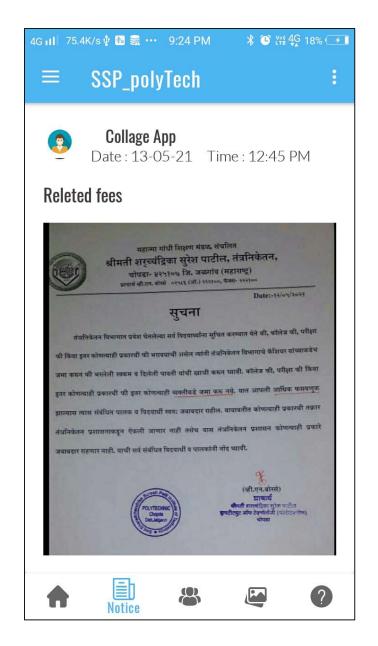


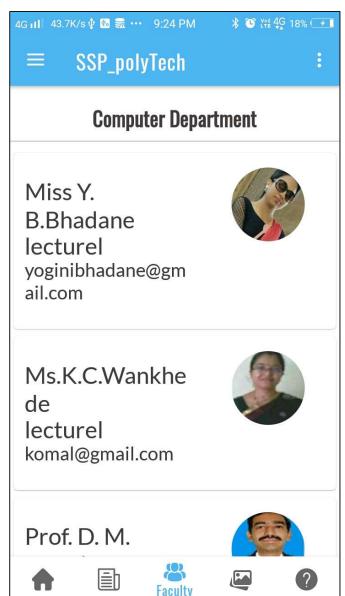


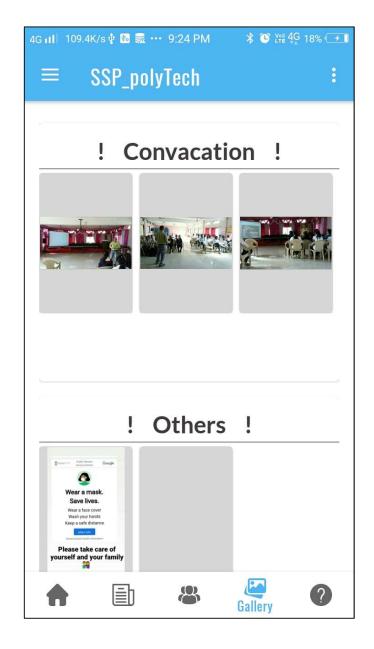


















realization of a dream by Late

Dr. Suresh G. Patil (Founder

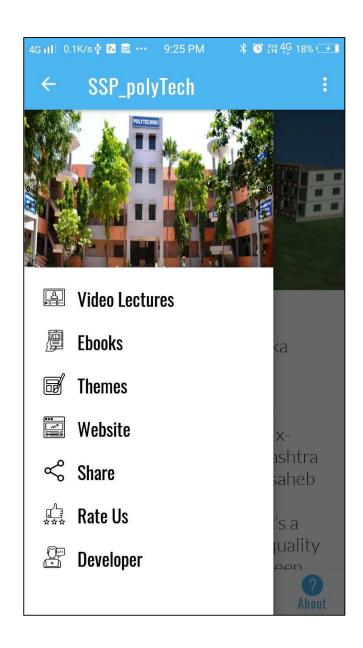
Smt. Sharchchandrika Akka (Ex-

President MGSM, Chopda). It's a premier institute, known for quality

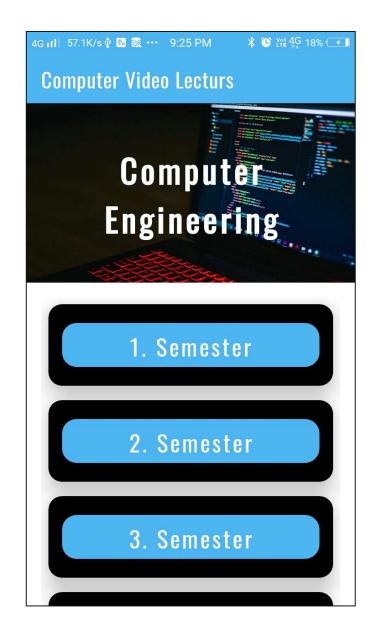
Education Ministress, Maharashtra State) and her husband Dadasaheb

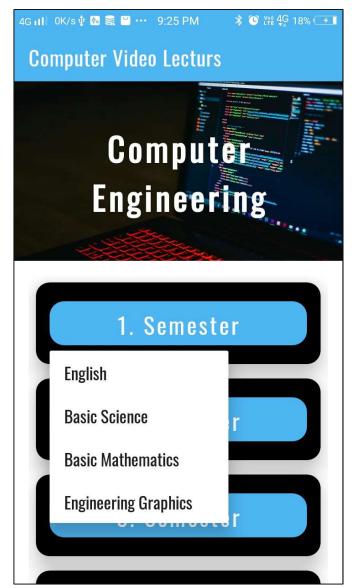


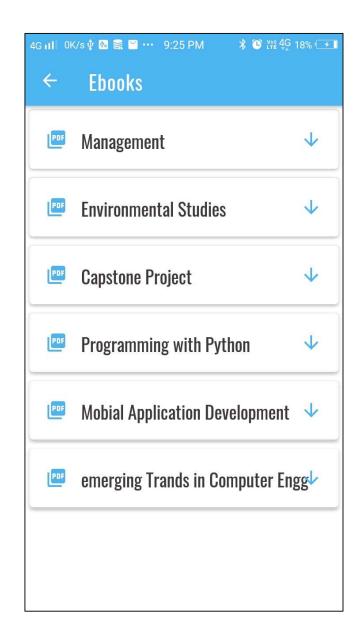


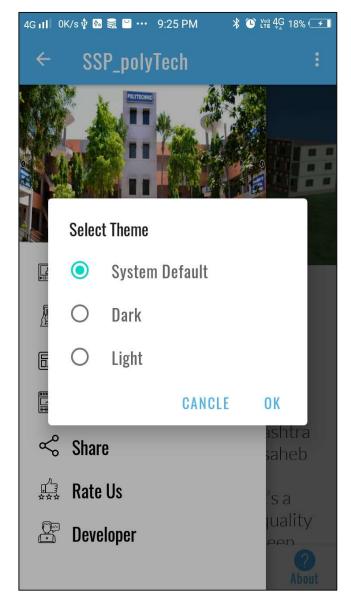




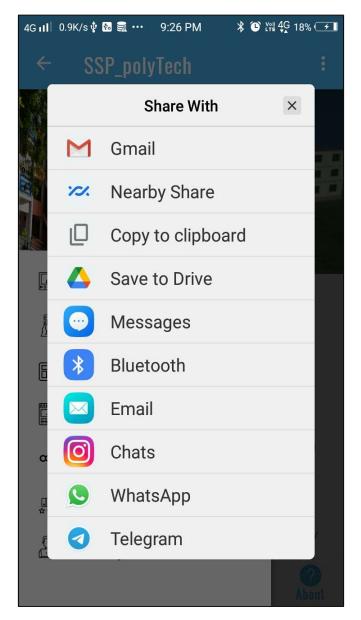


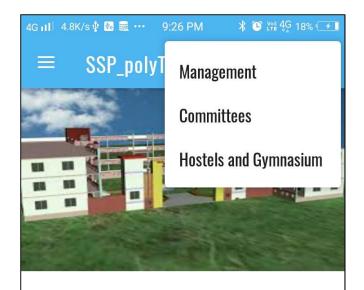












Mahatma Gandhi Shikshan
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