

MINI PROJECT REPORT ON

“Smart Class”

BY

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Under the Guidance of
Prof. Prashant Lahane

In partial fulfillment of



T. E. (Computer)

(November/December 2017)

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CERTIFICATE

This is to certify that the partial project report entitled
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Is a record of bonafide work carried out by them, under my guidance, in partial fulfillment of the requirement for the award of Degree of Bachelor of Engineering (Computer) at M.I.T. College of Engineering, Pune under University of Pune.

Date:

Place:

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ACKNOWLEDGEMENT

It gives us great pleasure in presenting the project report on 'Smart Class'.

We would like to take this opportunity to thank our internal guide Prof. Prashant Lahane for giving us all the help and guidance we needed. We are really grateful for his kind support. His valuable suggestions were very helpful.

We are also grateful to Prof. Bharti Dixit, Head of Computer Engineering Department, MITCOE for her indispensable support, suggestions.

In the end our special thanks to Computer Department of MITCOE for providing various resources such as laboratory with all needed software platforms, continuous Internet connection, for our Project.

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ABSTRACT

In the age of computing, we have built very easy and efficient solution for managing your classes. Now you don't have to manage your class through physical registers and excel sheets.

We have provided a collection of software tools providing an online environment for course interactions. It includes a variety of online tools and environments, such as:

An area for faculty posting of class materials such as course syllabus and handouts.

An area for student posting of papers and other assignments

A chat tool allowing synchronous communication among class participants and faculty.

In addition, it is typically integrated with Firebase database for taking your data virtually anywhere.

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1.INTRODUCTION

In the age of computing, we have built very easy and efficient solution for managing your classes. Now you don't have to manage your class through physical registers and excel sheets.

We have provided a collection of software tools providing an online environment for course interactions. It includes a variety of online tools and environments, such as:

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A chat tool allowing synchronous communication among class participants and faculty.

In addition, it is typically integrated with Firebase database for taking your data virtually anywhere.

2.LITERATURE SURVEY

There are many apps in market which provide some or many of these services.

Many Smart Class Systems have been developed based upon different platforms and concepts. Use of Smart Class apps is growing but there are many issues related to their functionality. Our SmartClass has a beautiful interface with various functionalities such as chatting ,instant assignment,notices . It runs on Android devices .

All the application available for now are more specific in nature. They do not provide solution to all the problems in a single application. For example some teacher send mail some whatsapp you the assignments some use their own websites there is a absence of central system to manage everything this app is to centralize all these tasks.

3 . PROBLEM DEFINITION/SCOPE :

All the application available for now are more specific in nature. They do not provide solution to all the problems in a single application. For example some teacher send mail some whatsapp you the assignments some use their own websites there is a absence of central system to manage everything this app is to centralize all these tasks.

we are providing :

- Complete classes student management software online
 - Teacher's, student's module.
 - Easy to use graphic Interface
 - Best management tool
- Graphical attractive reports that are easy to understand
 - Special access to Faculty.
 - get paper free
- 24 X 7 access, anytime, anywhere.

Instead of going in a traditional way of information systems, we wanted to build something that was more user friendly and easily accessible and we believe that this project can be used as a basis for further growth in this area.

4.SOFTWARE REQUIREMENT SPECIFICATIONS(SRS)

Purpose	The purpose of this document is to describe the Smart Class. This document contains the functional, behavioral and non-functional requirements of the project
Scope	Smart Class is basically your personal study assistant. It helps to track your assignments and notices and helps interact with colleagues and teachers.
Product Perspective	Smart Class is a replacement for the ordinary way to keep track of daily to do list of assignments and always referring the notice board.
Product functions	<ul style="list-style-type: none">-Daily Notices.-Assignments to be submitted.-Teachers can broadcast any notice or files to all students simultaneously.-Interaction between students and teachers.

Operating Environment	Smart Class is an Android app so can work on any smartphone with android version 8.0 and higher
Design & Implementation constraints	It will use Google Firebase to store users data. Requires Internet service.
Assumptions and Dependencies	Android version : SDK 16 Internet connection. Call and SMS service.
External Interface requirement	User Interface - User friendly Home screen with all available functions. - Dynamic Buttons - Simple methods of using app. Hardware Interface - Smartphone Software Interface - Android version : SDK 16 - Internet Connection. - Call and SMS service.
Functions	-Alerts for important notices through notification panel. -Shows the list of assignments to students and allows teachers to upload the same. -Teachers can upload important files which students can download through their app. -Chatting between students and teachers. -Separate apps for student and teacher side for security.

5. SYSTEM OVERVIEW

The proposed system is based on Android Operating system which will increase interaction between students and teachers and helps to improve learning process. It will feasible for students to get all assignments and

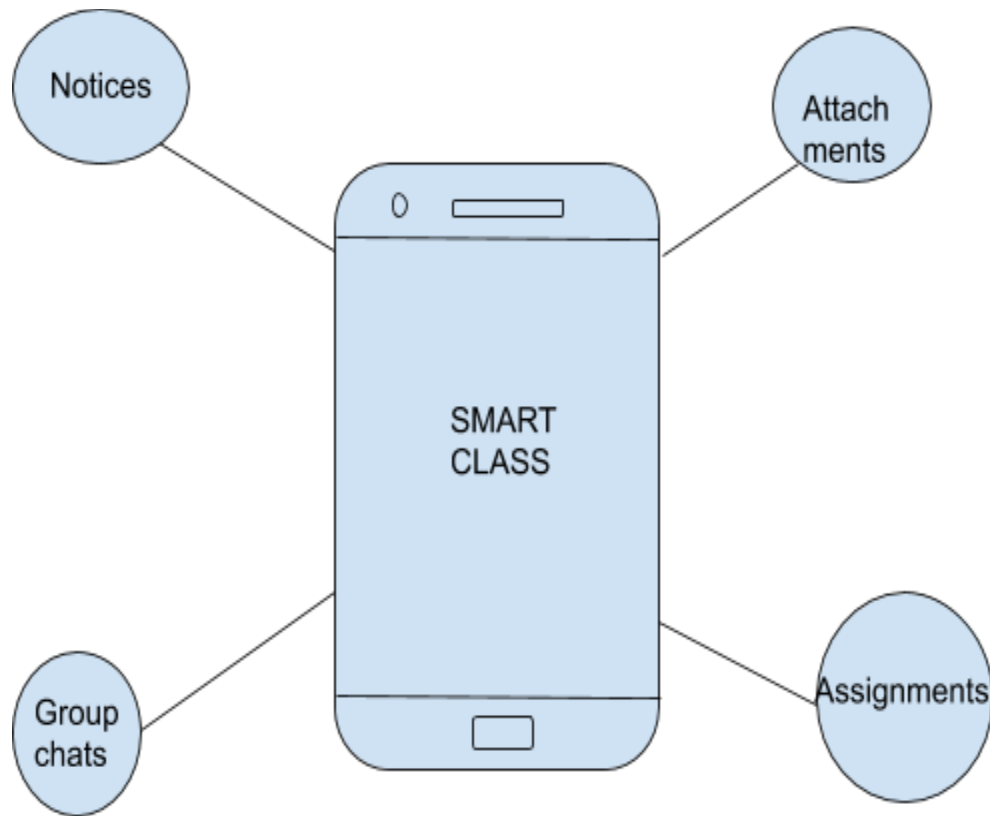
notes at one place. Android is a Linux-based operating system designed primarily for touch screen mobile devices such as smartphones and tablet computers, developed by Google in conjunction with the Open Handset Alliance. Android was built from the ground-up to enable developers to create compelling mobile applications that take full advantage of all a handset has to offer. The system is specified on android operating system only because the market share of Android is high. Android also comes with an application development framework (ADF), which provides an API for application development and includes services for building GUI applications, data access, and other component types.

System Overview : Smart Class

The above figure reflects the overview of the app. Input to the system is the data uploaded by

teacher . The Main modules of the application :

1. Assignments
2. Group Chat
3. Notices
4. Attachments



1] Assignments

In this module teacher can upload any assignment in the text format. There are three fields as Subject ,Title , Description. Uploaded assignments can be updated any time. In students side application there is a list view according to titles. students can access this module in read only mode.

2] Group Chat

In this module teacher and students can interact with each other. Teacher and student both can send messages. The messages are shown with the sender name and mobile number used at the time at login activity.

3] Notices

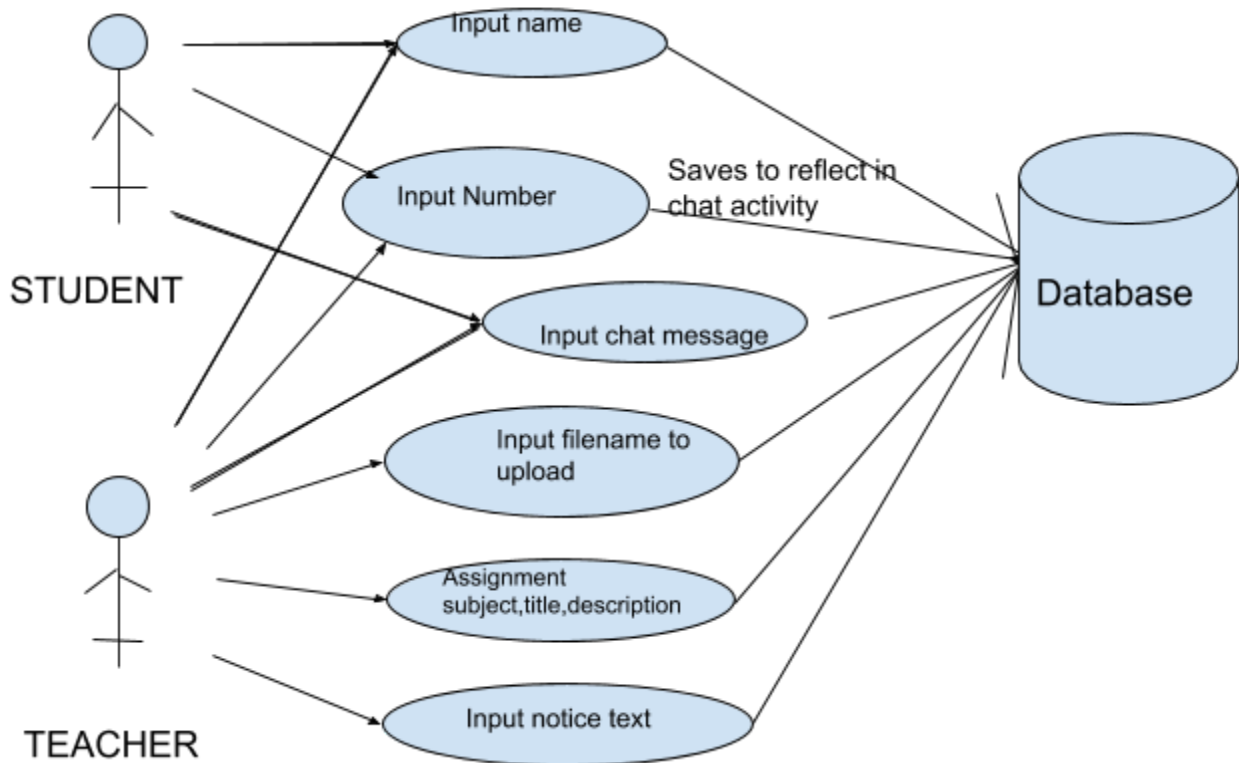
This module teacher can send any important notification. There is only one text field .Students can access this notices in read only mode .

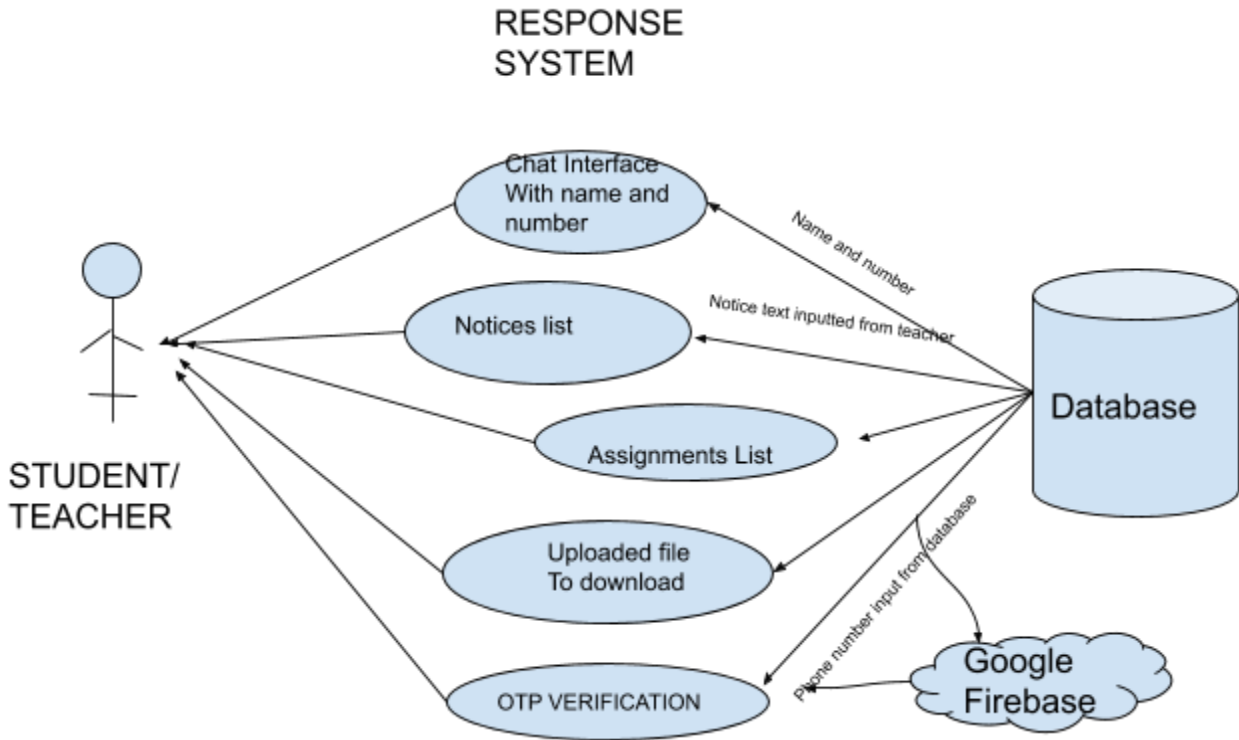
4] Attachments

In this module teacher can upload any assignments and any other information in pdf format. There is text field for the name of the pdf which will be shown to students. Student and teacher both can see this pdf in form of list view of their name and also be downloaded at any time.

6.UML DIAGRAMS

INPUT SYSTEM





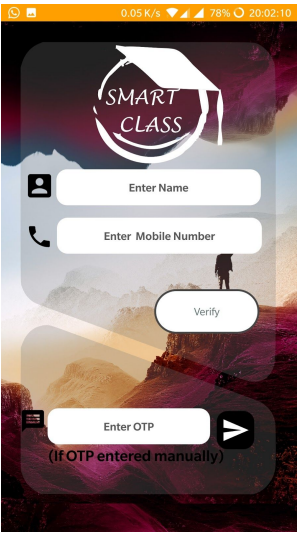
7.PLATFORM/TECHNOLOGY

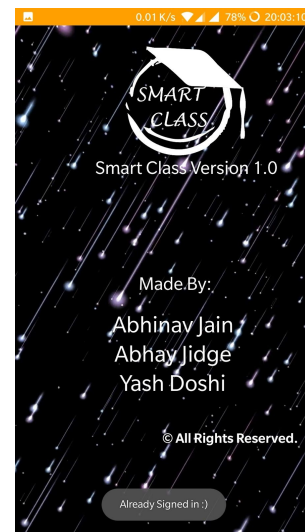
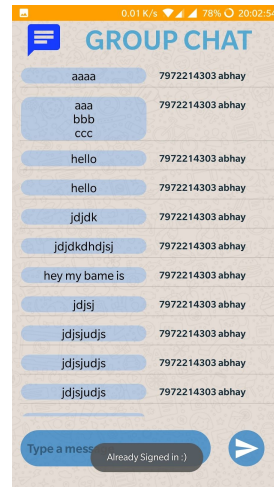
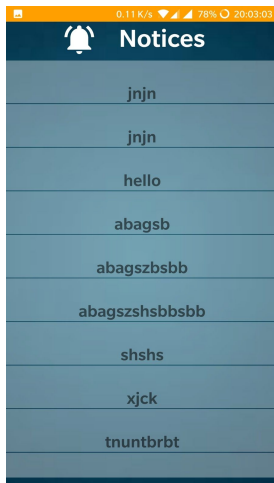
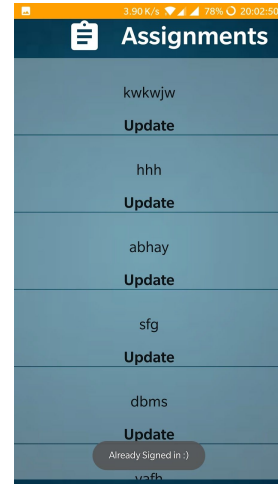
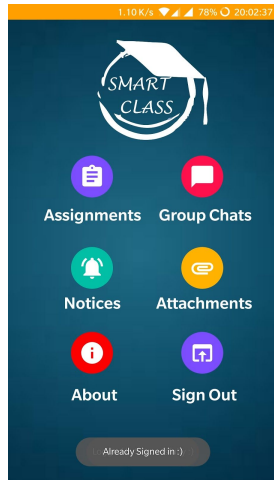
Platform : Windows, Mac, Linux.

Technology : Android Studio

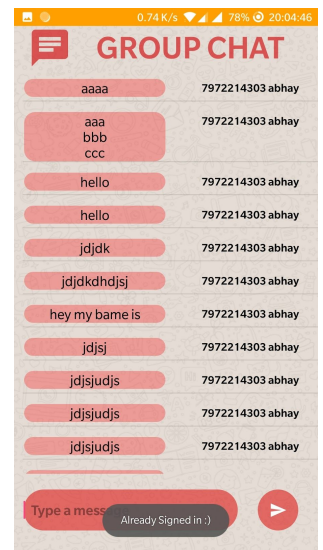
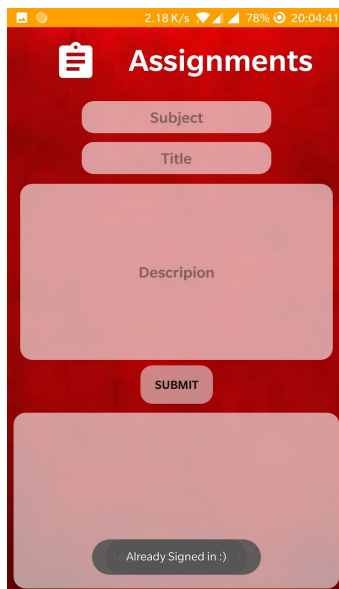
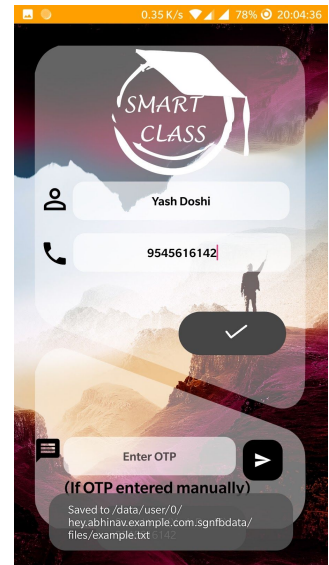
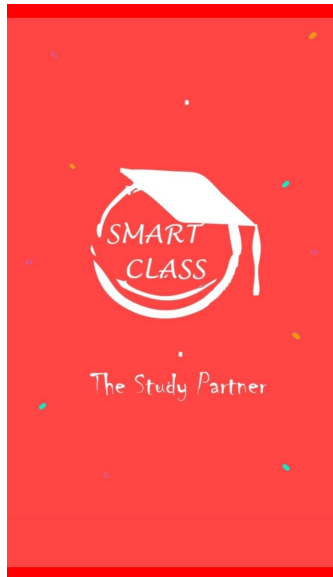
8.USER INTERFACE

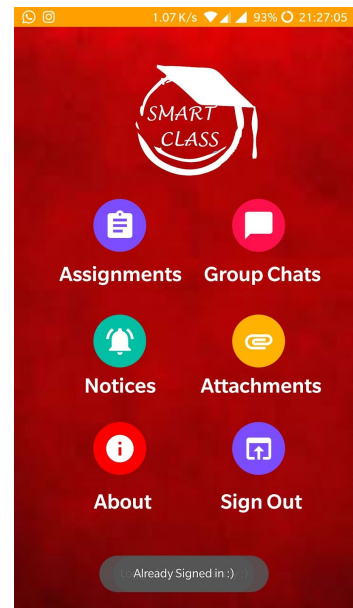
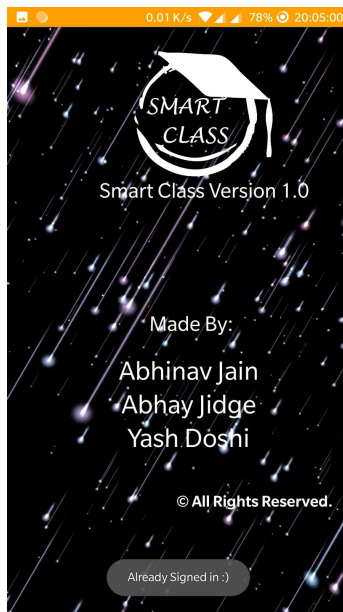
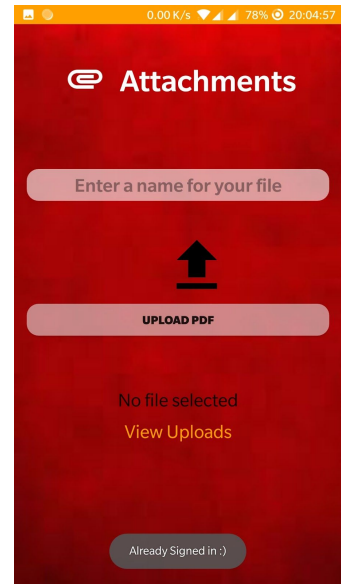
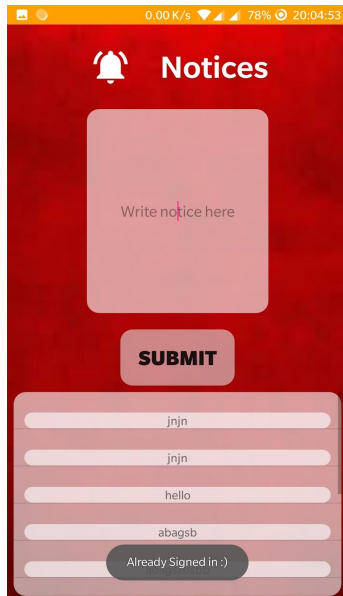
STUDENT SIDE





TEACHER SIDE





9.CONCLUSION AND FUTURE SCOPE

The aim of our group was to make a system that can increase interaction between teacher and student by increasing communication between them. It will also be easy medium to send assignments, notes, notices, updates to the students and easy way to find all assignments at one place. Our project main intention to increase interaction between student and teacher to provide a better learning approach. Students can access the content any where with internet connection. Our focus is digital learning as well as reducing the use of paper moving ahead. We will try to update the app as per user requirements with adding more modules.

10. References

1. <http://thenewboston.com/>
2. <http://stackoverflow.com/>
3. <https://developer.android.com/>

