



## School Notification App

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### ABSTRACT—

This system will provide many facilities to parents, teachers. All data will be stored securely on firebase database managed by the school administrator and ensures highest possible level of security. The system features a complex logging system to track all parents' access and ensure conformity to data access in order to reduce the manual work by visiting the school personally which will help the parents to save time from their busy schedule. The application will be loaded on Android mobile and create the icon of the application. It provides a wide range of information about education, courses, and all about college students that help the instructor to select to whom he/she will send notifications. It also includes sending notifications, attendance, viewing academic details like exam results.

**Keywords—** Android studio, Java, firebase, school notification app.

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### I. Introduction

This document is written with an intention to note down the self-learning and reflection throughout this project planning phase. It gives a glimpse of various things which we learnt or experienced through this project planning phase, the issues or difficulties we encountered and how we reflected on the same. We, being an aspiring Computer Engineers, strongly believe that Technology field is one of those fields where no matter how many books we read, lectures we listen, courses we undertake, workshops we participate, we won't be able to excel in any aspect of technical terms, unless and until we have a hands-on experience. Throughout the tenure of our diploma course, we learnt various subjects and topics, various programming languages like C, C++, Java, Advance Java, HTML and CSS. Not just this, we also learnt some important topics like Software Development and Software Testing. We consider this entire Capstone Project as an opportunity to implement all that we have learnt so far, and develop a decent software, be it a website, a mobile application or any software.

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### II. PROBLEM DEFINITION

We tried to analyze the existing system which are currently used by the schools for sending notifications and other information which is manual, time consuming and it requires man power. So to overcome such these problems we are going to propose this android application to get notifications, notices and detailed information of students to their parents and to stay in touch with the school

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### III. METHODOLOGY

Developing this project for better usage and experience becomes very important considering the scope of this project going live. In order to develop this project efficiently, we communicated with our project guide and also a couple of corporate developers who are known to us. By discussing with them, we intended to understand how a website/mobile application is developed in actual corporate world and what procedure we should follow to have a smooth development of the project. Understanding everything and having internal discussion with the team members, we planned our project methodology.

There are three main modules in this project, they are

1. Admin module
2. Faculty module
3. Parents module

**Hardware/Software Requirements:**

•We shall be requiring below mentioned Hardware to ensure smooth processing and development experience: Desktop or Laptop, Processor i5 or above, minimum 8GB RAM,

Windows operating system

•The technology stack/software which we shall be requiring are as below: Visual Display Unit 800\*600 colors (Min.) The platform for executing the code for School Notification System. We used: Android Studio.

**Platform used:**

**Android Studio:** Android Studio provides a unified environment where you can build apps for Android phones, tablets, Android Wear, Android TV, and Android Auto. Structured code modules allow you to divide your project into units of functionality that you can independently build, test, and debug.

**IV. Industrial Survey**

**Survey:** When we were asked to think about a relevant topic for our final year project, we thought of many topics and after we came across the topic School Notification System. That's when we took a short survey by asking our relatives, friends, close friends, neighbors and a couple of more people on their experience. It is obvious that it took wastage of papers, we have seen over the years that the process of notice boards, important notification about academics has been carried out manually almost across all institutions. The process is not only time consuming but also incompetent. This traditional system requires manual work of writing notifications, taking printouts, showing it on notice boards and also requires students to watch periodically.

1] It uses a lot of paperwork. The need of developing such a system is to solve daily life issues of notifications, notice management. Due to heavy rains, the school or organization wants to declare the holiday on the day after so we decided to make a notification system.

2] But students get to know about that day off when he/she went to school which is too late. To overcome these issues and enhance parent-teacher interaction we implemented this application.

3] A project that aims to build a wireless telegraphy communication between instructor and a student.

4] Nowadays there is a huge need for innovation in the field of showing important announcements through the wireless-based notification system. Since the use of internet is increased therefore each person is interested in the wireless communication as because everyone spends most of the time on the mobile phones.

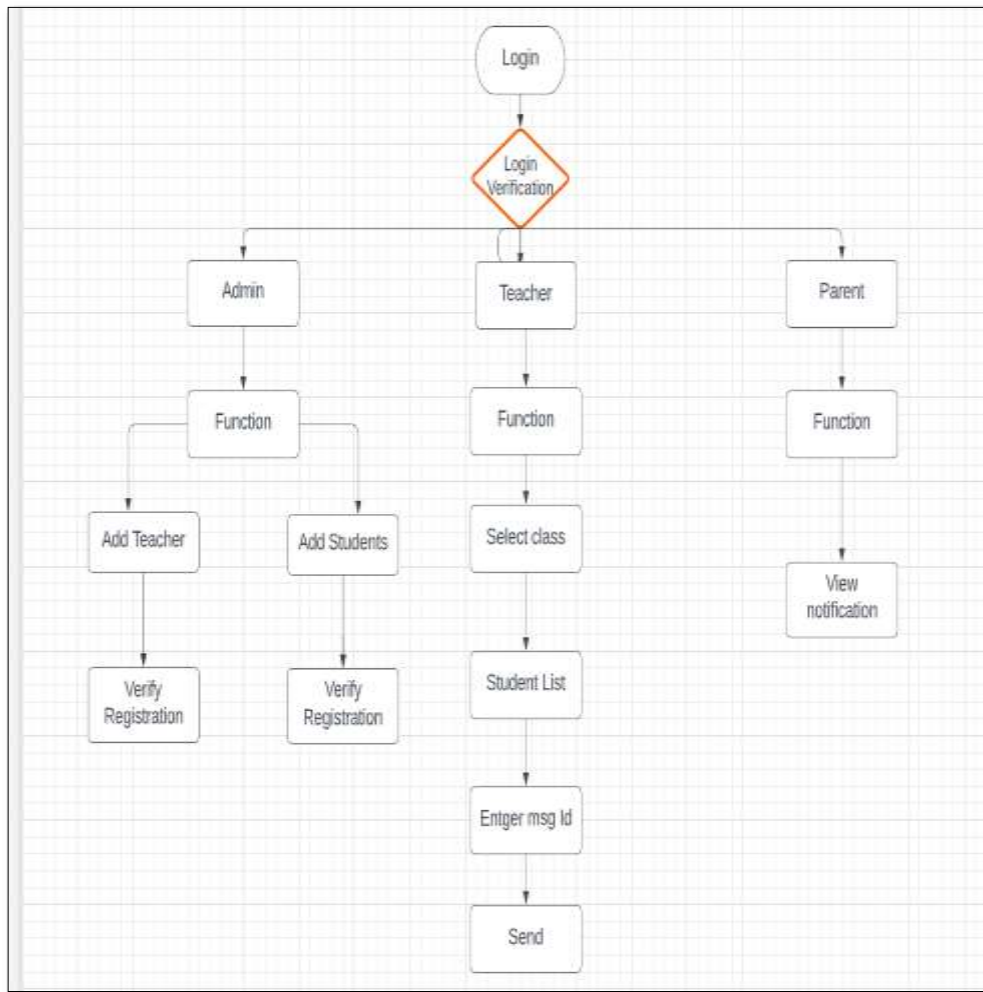
5] With the typical traditional approach of displaying notices on the boards does not help everyone as each user is not notified individually.

6] Therefore our approach is to make less the manual efforts by restore the user by sending the push or popup notifications individually by wireless communication which will help the user not present physiological still he will be able to know the important notices.

**V. PROBLEM IDENTIFIED**

Although many problems were solved by startups of such platforms, through our survey we found a major issue which the society is currently facing. The problem is that: The process is not only time consuming but also, incompetent. This traditional system requires a manual work of writing notifications, taking printouts, show it on notice boards and also requires students to watch periodically. It uses a lot of paperwork. The need of developing such a system is to solve daily life issues of notifications, notice management. Due to heavy rains, the school or organization wants to declare the holiday on the day after. In such case, we felt that if we come up with a platform which provides Direct Notification to parents/students of activities related to school, instead of putting it on notice boards, it will become much easier and convenient for the both Faculty and students. We did a little more survey to find out if there is a platform resolving this issue, but to the best of our knowledge, we could find only one mobile application which when tried, wasn't responding well and hence of not any use to the society. This made us convince ourselves that developing a Notification App for commute platforms, shall be of a good help for the society as well. That's when we thought that we shall take up School Notification System as our final year project.

## VI. FLOWCHART



## VII. CONCLUSION

Implemented system is mostly concentrating on receiving notifications through android applications which will cover all the aspects of existing manual system. System mainly proved beneficial to the parents, students and organization as well. Also, this system will totally remove manual and time consuming nature of other existing system.

## VIII. REFERENCES

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