

## **Engineering Analysis and Design - One Page Write-up**

### **TiTa - Classroom Management System**

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**Problem Analysis:** Students and teachers often face difficulties while managing time-tables, assignments, and quizzes. Such problems arise due to the unavailability of a centralized management system where-in the communication between the teachers and students can be made efficient.

**Proposed Solution:** Our team has come up with an online platform as a solution to this problem. TiTa is a Classroom Management System that would make the communication between teachers and students much more efficient.

The purpose of TiTa- Classroom Management System, at a University level, is to manage time-tables, assignments, and quizzes for teachers and students.

The teacher and the student LOG-IN using third-party authentication (Google) and the login RESPONSE is sent back to the teacher and the student.

The teacher CREATES A CLASSROOM, which is then JOINED by students through a unique and auto-generated code. The teacher UPLOADS THE SCHEDULE for her classroom and the ACCUMULATED TIME-TABLE for each student, depending on the classrooms they have joined, is provided by the CLASSROOM MANAGEMENT SYSTEM.

The teacher POSTS THE ASSIGNMENTS with a given deadline in the respective classroom, which APPEARS in the student's classroom. The students SUBMIT the completed assignments which are then RECEIVED by the teacher. The teacher marks the assignments manually and UPLOADS the score as feedback.

The teacher CREATES a quiz using our own form utility or a third-party tool such as Google Forms. The link to this quiz is then POSTED in the classroom and then the students ATTEMPT it in the given time-limit, the responses being RECEIVED by the teacher. The teacher can either mark them manually or can use TiTa Forms' answer checking capability (using an answer-key) and then the teacher UPLOADS the result on the classroom which can be ACCESSED by the student.

The student can TRACK their performance in past quizzes and assignments through a comprehensive graphical display.