Exams scheduling

MANAGEMENT System

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# Introduction and overview

Before the examination period, the university prepares a schedule for administrating the exams and each campus distributes the sections of each course in the available auditoriums. The student’s task is to check in which auditorium and on which seat color he is. Schedules are posted on boards at the entrance of each building on the campus. For unrevealed reasons, the posted schedules show the course name and section without the instructor’s name. In general, students don’t memorize their sections.

During exams, student attendance is an essential process taken by all universities. Until these days, and in the era of technology, attendance is still taken in a way that requires the proctor to check the IDs of all students and take their signature using a paper sheet, and as a final step, the names of absent students are spelled loudly to assure their absence. On another hand, in important events, students are encouraged to attend and benefit from the events, therefore the university is willing to record the attendance of the students and give benefits to them for attending such events, which is currently done manually.

Many students enter the wrong auditorium and start solving their exams until the proctor notices the happened misconception, takes the student’s exam, and guides him to the right room to start a new one. This procedure wastes, in addition to an exam copy, a lot of the student’s exam time and stresses the students which may affect badly their performance in the exam. This also wastes the time of the proctor during the process of taking attendance using a paper sheet and checking the id of each student. Not only in the examination period but also in events, the university is facing a problem where important events usually have poor attendance rates.

We propose a system that aims to solve these problems where it can take the attendance of the students in the exams and guide them to the right room on one hand, and track their attendance in events in another hand.

# In a summary:

This project will solve many problems such as:

1. Preventing students to enter the wrong auditorium
2. Minimizing time wasted guiding the students to the right room
3. Minimizing time wasted taking attendance
4. Reducing the poor rate of attendance
5. Help in managing the seat distribution for students

# Mission Statement:

Our mission is to help both teachers and students to organize their schedules during exams and save time in finding their distribution on auditorium

# Phases of the project:

Hypothetically this project will pass through the following phases:

1. Engineering phase
2. Development and implementation phase
3. Testing phase
4. Deployment in the university

In the project's current scope, the work will be limited to the first three phases 1, 2, and 3; they will be called stage 1 of the project.

Through these 3 first phases, we will pass through the following:

1.Development of the vision document (this document): this phase will set out the

problem, the solution, and the contributing parties to the project with their roles,

different references and related terms.

2.Development of the Requirement and Specification Document (RSD): The engineering portion of the project will be established at this phase with all of the unique (functional, non-functional) needs of the system.

3.Development of the software: By the time this phase is over, the university will be able to use the first version of the product, which is prepared for deployment.

4.Implementation for testing: The system will be installed on the students’ servers at this phase, at which point all services will begin to be tested. The major objective is to verify the dependability and accessibility of the current services to ensure that the system meets all requirements and user expectations.

# Users of this system are:

• Admin (IT).

• Employees (content management).

• Users (Students/Teachers).

# Key Features

Some of the features that the software will provide are:

* Our application is based on both software and hardware. The hardware needed is a barcode reader at the entrance of each auditorium. The reader is driven by a tablet used for displaying info and communicating with the database.
* The software is a web application with a university-side running on the tablets and a server-side managing students’ access to auditoriums. Recorded attendance and needed data are stored in a database.
* Students receive their seat number, color and room through emails containing their own barcode.
* After scanning the barcode, a message is sent into your account that is found in the Web application
* The admin can insert student by adding an excel file that contain (student name, majors, and the courses)

# Conclusion:

Exam scheduling is progress that could be known from its name, where it is used to help universities organize the exam schedules of students refers to their courses, and make it easier for students to find their exam auditorium and help teachers also find where they are going to supervise during exams and at which time.