ISSN (Online) 2394-2320

International Journal of Engineering Research in Computer Science and Engineering (IJERCSE)
Vol 5, Issue 4, April 2018

Time Table Generator

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Abstract: **- The Timetable scheduling process is one of the difficult task for any Institute or schools or colleges.This timetable scheduling process is generally made manually which is a hard task to perform and to make it easy even the existing timetable is used. This prosess is very lengthy and difficult to perform. Here the development of a system is put forword to overcome all of these problem and give the best possible result.**

I. INTRODUCTION

Timetable scheduling is widely used in schools , colleges and other coaching centers, training programs etc. In order to deal with such problems a mechanized system can be designed with a computer aided time table generator. The system will take different inputs like number of subjects, teachers, maximum lectures a teacher can conduct priority of subject to be covered in a week or a lecture, it will create feasible time table for working days of the week, making excellent applications of all Resources in a way which will be best suited for constraints. The goal of the project is to develop a system that will generate a timetables for an institute without any hindrance, directly from raw schedule.

III. EXISTING SYSTEM

The manual timetable scheduling is one of the major problems to deal with the time clashes. This creates a heavy work to be done which consumes lot of time to resolve. To rectify these problems, an institute needs a system that helps to generate a timetable.

III. PROPOSED SYSTEM

To overcome the problem of time clashes and time consuming process, we are making a system that will accept some inputs such as subjects, lecturers names and number of classes etc and generate the best possible output. Courses and lectures will be scheduled accordingly by making use of all the possible constraints and the given inputs and hence, a timetable will be generated. Additional features such as faculty replacement and temporary faculty replacement can also be done.

Architechure of University Timetable System

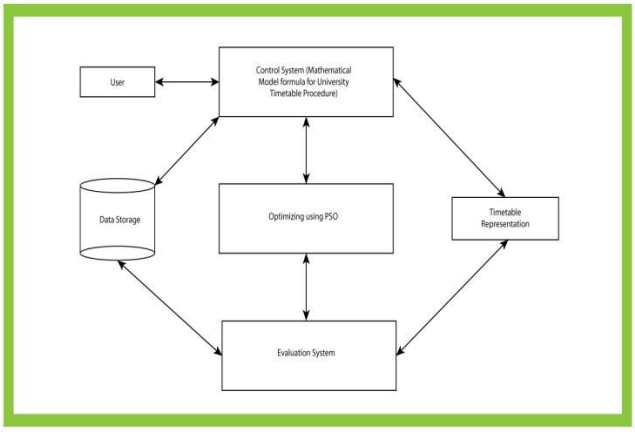
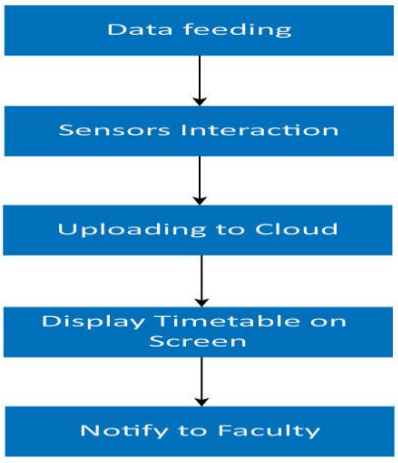


Fig a - System architecture

Dataflow Diagram



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IV. OBJECTIVES

1. To create a cloud based IOT system which will do the time table generation more effectively.
2. The process must minimize the minimum human interface.
3. The information about the time table generation and changes must be notified to the trainers instantly of the modification is done.
4. Because we will use the wireless technology the main objective is to avoid the usage of wires in the processing purpose.

V. MODULE DESCRIPTION

1. Registration: Here user should register before login.
2. Login : this allows only registered user to login in order to use automatic time table generation application
3. Cloud upload: Once the time table is finalized it will be uploaded to the cloud for the storage purpose and also to make it visible for the faculty and students
4. Faculty Display: Here in this module a display board is used to display the latest time table for the particular semester of the class.
5. Interface for input The system will be having an easy to use and interactive interface to enter all the inputs like the teacher name, the data for the rooms and data for the labs and the data for subject.
6. Database Capabilities:The system will have well designed database to store all the information which will be entered in as the input.

VI. CONCLUSION

Timetable will be generated for different class,faculty and lab by the system. Multiple timetables will also be generated. Therefore time consumption is reduced. The system gives the generated output as timetable without any time clashes. Additional features such as faculty replacement and temporary faculty replacement can be done.

VII. FUTURE WORK

Here we have only worked with the time table module we can work with some other real time features such as attendance and payment gateway using the iot concept which will make the entire automation of the college more transparent and more authenticate one

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