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Designing of College Time Table Generator using Automated Tools

Mr. V.N. Kukre[1], Kanika Kinger[2], Karan Hinge[3], Samiksha Katore[4], Shantanu Gaikwad[5]

HOD, Department of CO, AISSMS's Polytechnic, Pune, Maharashtra, India[1]

Student, Department of CO, AISSMS's Polytechnic, Pune, Maharashtra, India[2,3,4,5]

Abstract: The traditional way of generating time table is very time consuming and ends up clashing either with same labs, classes, etc. The main motive of this project is to help the staff to generate time table with minimum efforts using some automated tools. As per requirements, teachers can enter the data in this tool and plan the class wise lectures. The project generates three different time tables; student's class wise lectures, Lab time table and teacher's personal time table. The output of this tool can be accessed by the students of the class and the output can also be generated in the pdf format.

Keywords: "Module", "Interface", "Database", "Trends", "Clashing", "Customization".

I. INTRODUCTION

Intellectuals say, "Time is Money". Instead of doing hard work and wasting a lot of time on one particular thing, we should do smart work. At the start of every academic year, one of the biggest responsibilities of every class teacher is to create time table for students. As the task sounds very simple but in reality, this is an open challenge to all the teachers to go through the learning needs of the students with the availability of the teachers. While doing this, the teachers should also ensure that the students do not find the day too exhausting or boring. Hence, time table should be balanced properly. [1]. According to the research, time tables are usually created in a traditional way, wasting lot of time and ending up clashing many things like same rooms, same teachers, etc.[2]. In order to save time and provide secure and user-friendly interface, we thought of creating a module to generate the time table automatically. The project saves a lot of time and generates the time table with minimum efforts. This project provides easy customization, smooth integration and most importantly provides paperless environment. The motive of this project is to avoid the complexity of setting and managing time table manually. [3]. In today's generation, computers are indeed ruling the society. Computer serves as efficient means for information management. Hence to suffice the academic planning needs as per current requirements, this project will serve to upgrade the institutions from older methods to current trends. In this project, we have used SQL database to store the large amount of data. The project also makes use of database to store teacher's information, course details and much more. [4].In this project, generating an automated time table approach was followed. Structured tables and proper formats were used with codes written in vb.net language using number of forms and modules. The output of this tool can be accessed by the students of the class and the output can also be generated in the pdf format. The project is very useful, fast and advantageous, and it worked smoothly during our field tests.

II. CONCLUSION

Project is implemented in such a way that it will help to save a lot of time generating time table using automated tools. Programming is done using VB.Net. With the help of automatic time table generator, the time table will be generated automatically. Proposed system of our project will help to generate it automatically also helps to save time. It avoids the complexity of managing and setting Timetable manually. In our project we made the use of algorithms like genetic, heuristic, resource scheduling to reduce these difficulties of generating timetable. The system considers various inputs like number of teachers, subjects, workload of a teacher, priority of subjects and semester. It will generate all required time tables for working days of the week by relying on these inputs for teaching faculty. Optimal use of all resources is made in a way and integrated that best suits the constraints.

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