Automated Timetable Generator

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Software Vision

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Overview

Even today, timetable management is a great issue in most of the educational institutions and it is managed manually. The manual creation of timetable is a very long and tedious process where one should consider many constraints and also many combinations needs to be thought of while creating a timetable manually. This project targets this problem of the educational institutions and simplifies the institutes', schools' and colleges' timetable generation process.

Objectives

The main objective of this project is to develop an efficient Timetable Generator by considering all the constraints and limitations of the institutions which will be predefined while giving input. The generated timetable can be accessible to the faculties and students from anywhere by just logging into the system.

Features

1. Equal distribution of slots to faculties.
2. Occasionally new classes can be added to or deleted from the timetable as and when required.
3. Scheduling classes for the students.
4. Secure login system

Non- Functional Requirements

1. Will provide convenient service by having a proper and user-friendly user interface.
2. Will be scalable and can be extended in future as per institutional demand.
3. Will have minimum response time.

Dependencies and environment

Git as version controller

PHP , MVC framework- Codeignitor

Application Server - Xampp