Automated Core Course Scheduling
Weekly Progress Report 8

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Project description: The project is intended to develop a system which is web based, browser independent and using a GUI to help automate scheduling of core courses. The system should be the link between the lecturers and the study coordinators, such that the lecturers can choose their prefered time slots and the system gives schedule suggestions to the coordinator based on the predefined constraints and coordinator defined constraints.

Progress: We have completed most of the must-have features, opened and fixed some bugs in the system.

What has been done:

- Modelling of variables in our scheduling problem using the constraint solver's model are done.
- We have almost finished working on data models.
- A Coordinator function has been implemented that helps to distinguish between preferences for different semesters.
- Authentication and password security bug has been fixed.
- Fixed Bug -. Preferences for lecturers are loaded from database based on course ID. Separate preferences according to the semesters can be given.
- Fixed Bug - If the fields of the registration are entered or not, if not, it gives a flash message demanding for the field to be satisfied.

Ongoing work:
- Representation of the systems scheduling problem is going on. We are still working on constraints modelling.
- A new feature has been added i.e. possibility for coordinators to mark timeslots. In this way, certain timeslots can be blocked for some events like lecturer meetings etc.
- Also a feature of code function documentation has been added which will create a docstring describing the functions function, parameters, variables and return type for each function.
- Working on bug to solve problem which displays the home menu without being logged in. Home menu should not be shown to any random user without logged in the system.

- Working on the support task to provide test cases for functionalities of the system.

Plans for the next week:
- Working on algorithm for scheduling and constraint solver.
- Fixing existing bugs.
- Documentation of user manual as the project progresses.
- Documentation of code functions.

Problems:

To include all the constraints in our modelling algorithm includes lot of challenging issues.