Automated Core Course Scheduling

Weekly Progress Report #5

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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 preferred time slots and the system gives schedule suggestions to the coordinator based on the predefined constraints and coordinator defined constraints.

Progress

The project is going in time according to deliverables schedule.

what has been done

- A working vertical prototype of a core feature has been closed.
- Feature that involved to develop the coordinators view after log in i.e the HTML page the coordinators see after login has been closed.
- Registration error bug has been fixed. While registering, the system cannot find the table to commit to.
- Coordinator can add information about course list and the current semester.
- Tasks for use cases diagrams for both lecturers and coordinators view has been closed.
- Paper prototypes for both the lecturers and coordinators view has been done.

ongoing work

- Two new features have been added which includes implementation of the functionalities behind each coordinators menu item.
- Also, to modify database schema and app to accommodate lecturers preferences. This information should be registered in the database.
- Two new bugs have been reported i.e. wrong user name crashes and Bad request when the registration submit button is clicked with no inputs in the fields.
- Sequence and Architectural diagrams of the system is in progress.
- Formal representation of main algorithm for Modelling Coco scheduling problem in the form of tuple that includes set of variables, set of constraints and set of domains. In short, constraint satisfaction problem algorithm.

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plans for the next week

- Working on algorithm for scheduling and constraint solver.
- Continue on lecturers view for giving their constraints (preferences) such as time slots etc.
- We will be working on coordinators view functionalities like adding more constraints for constraints like blocking time slots.
- Exploring different kinds of data models and to specify which one is relevant for our system.

Problems

- Our system should have multiple coordinators login (more than one admin).
- Modeling the scheduling problem might have some issues like including all the constraints needs to be resolved.