Automated Core Course Scheduling

Weekly Progress Report 6

Customer
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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 40% of the must-have features, opened and fixed some bugs in the system.

what has been done

- We have implemented the preferences logic and tuned the database to accomodate the preferences.
- The database has been modified to contain all our data to avoid hardcoding information, the modification also will ensure integrity of the database.
- Users now cannot access pages that are restricted without being authenticated first.
- A coordinator function (Preferences) was implemented to enable the coordinator to visually see all the prefered timeslots colored in the respective colors of Green, Red, Yellow according to the preference of the leacturer.

ongoing work

- Data models; we are yet to realize the whole data we will deal with so this section is still being refactored.
- Modelling of our scheduling problem using the constraint solver's model.
- Sequence Diagrams showing the interaction between the actors, software and database are still in the works.

plans for the next week

- Continue working on the constrain satisfactioin problem.
- Refactoring of code and code level documentation.
- Fixing the existing bugs.
- Meeting with alexander to discuss hosting server architecture.

Problems

Development level problems like representing our data and choosing the right methods to model our CSP.