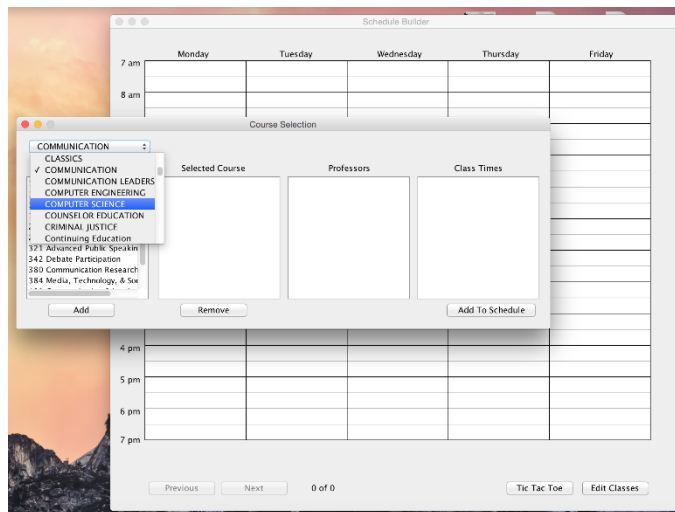


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Schedule Builder System Testing

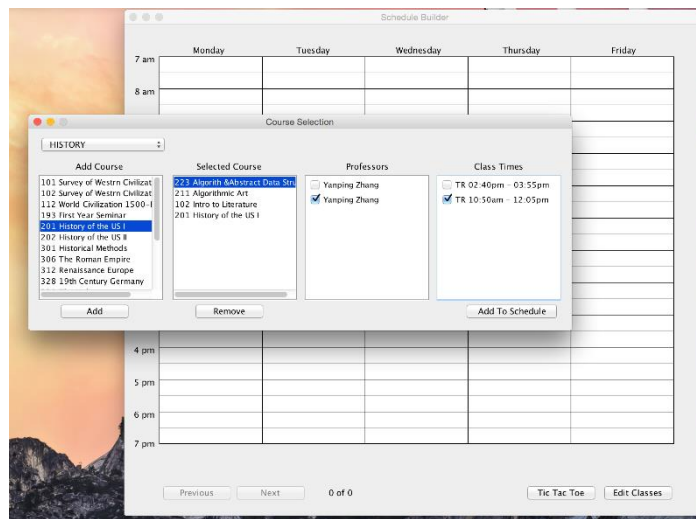
Creates desirable Gonzaga class schedules from a set of user-selected courses that can be modified to conform to user specifications.

- Select desired courses
 - Show all Gonzaga courses sorted by subject and provide links to Gonzaga's Major Requirements. This allows user to see courses needed for graduation. The user refines courses sections based on location, time, teacher and class necessity. The process delivers a set of desired courses.
 - Test Results: The Schedule Builder application successfully allows users to search and browse for all Gonzaga courses. The user is able to search for courses from the main subject list, and select courses from this list. The user is then directed to the class' potential teacher and time.

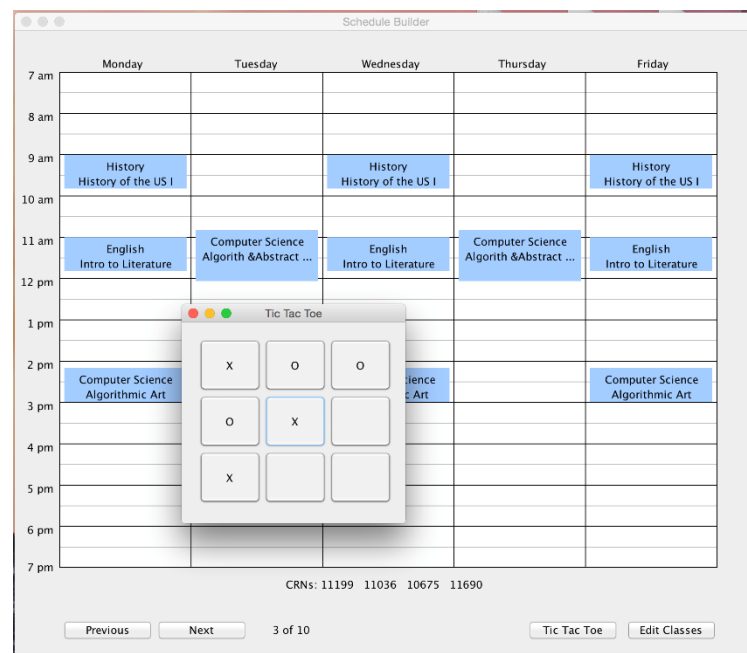


- Get section detail
 - Pull sections' data for desired courses from course database.
 - Test Results: The Schedule Builder application successfully queries information from our created course database. Multiple test cases have proven the Schedule

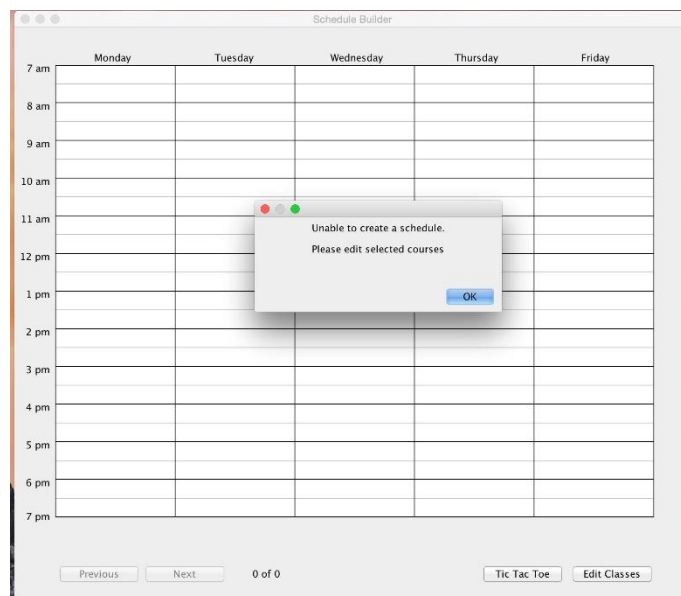
Builder is able to find the correct section details of a course from the course database.



- Provide visibility to possible schedule
 - Display schedule in an interactive and modifiable environment.
 - Test Results: The Schedule Builder application successfully shows all the correct graphical user interface components. Correct labels appear for added courses. Correct check boxes appear for selecting appropriate section details. Correct hover boxes appear over course label, showing course details for professor, time, and location. Correct layout is shown alongside correct times with their respective class. Tic Tac Toe mini-game appears when prompted, dialogue boxes for game correctly appear when winner is determined.



- Evolve to desired schedule
 - Modify schedule further to meet user desired calendar delivers a final schedule for the user. Must make sure there are no conflicts between times, course requirements, or location (i.e. can't have Florence and main campus classes).
 - Test Results: The Schedule Builder has four main functions when it comes to adding classes. It must recognize time, section, and the schedule as a whole.
 - Test Result Times: The Schedule Builder successfully recognizes conflict between class times. When a class is added the time for that class (day and time) is stored. When another class is added, the application will check to make sure the time for the class that is being added does not conflict with previous ones added. If so, an error message will occur.
 - Test Result Section: The Schedule Builder successfully recognizes section details and is able to add it properly to the schedule. The application will also recognize to make sure there is no conflicting sections similarly as how it works with checking times.



- Test Result Schedule: The Schedule Builder successfully creates a randomly generated schedule for the user after the user has finished adding courses that result in not conflicts. The user can then sift through other generated schedules for their selected courses using the “previous” and “next” buttons. Similarly, the Schedule Builder checks for conflicts between generated schedules as a whole, making sure that no two schedules are the same.

Screenshots of the Schedule Builder at Work

