Database Management

Term Project Stage 4

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Report

1. Zippy’s Room Search
2. The idea of our project is to allows students from the University of Akron to have accessed to other classrooms if they do not want to go to library or if they have a larger group for studying/meetings.
3. There will be three tables in our database. One is for the course info from the MyAkron website, another table for the classroom information to be searched by the user, Lastly, the User Input table will take the start/end time and the room identification to find the available rooms. We will be using MySQL for the database, a python package called “Selenium” to scrape the information from MyAkron, HTML for the Web Development, and PHP for the server scripting.
4. We are obtaining our real data from the MyAkron’s class search tool in order to find classes in a certain time frame. The python package will grab the necessary information from the HTTP page and export it in a file format that can be used to fill the database the user will be accessing.
5. The Reserve a class will allow the user to input the times and days of the week to reserve a room. The delete reservation will delete the time from the table and update the available classrooms. The search function will search through times to find classrooms and locations of the give available time. The update (which is not done yet) will refresh the table with data pulled from myAkron to show more available rooms.
6. Two advance functions we plan to develop is to require the Akron students to sign/sign up for an account to use our application. Another function would be update function we have not implemented yet.