

Project Proposal: University Database System

SOF3700U:Data Management Systems

Group 13

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Problem Statement:

The application area we will address in this project is a University Database System. This database will be designed so that it caters towards major universities so they may use it to catalog and systemize their courses and students, it will be more extensive than a typical database and will provide that information to students and staff to make educated decisions.

Goals and Motivations:

The goal is for universities to increase efficiency in having their data stored and retrieved in a categorized manner. Our motivation to do this database system is due to having used very similar systems throughout high school and university to select courses or update personal information. We find it very intriguing and are very interested in learning more about how they work on a data storage level.

Related Work:

Some related work we are basing our project on is our university's database on MyCampus. The components we would be recreating are the transcripts and the course availability. Our database will differ from the university's database because it will include more options and information about the courses. Some examples of the information we would add are midterm dates and course deliverables. We will also improve the interface of the database which will make it easier for the user while interacting with the database.

Methodology/Plan for Project:

Firstly, we are going to have this project planned out by placing our ideas on multiple different diagrams. Diagrams such as related schema and E-R diagrams, and use sample data and views to help shape our project and ideas. After that we are going to use Html, CSS and Javascript to create the front

end for our system, after that we are going to use PHP, XML or JSON for the back end to connect the front end to the databases. Overall, these steps will help shape and create a university database.