

Introduction to Database Systems

Course Project

Our project for this course will be to build a database application with a web user interface. This is a group project, and each team member will be expected to take on one of the following roles:

- project manager: leads project plan, report writing, presentation
- front-end developer: leads client-side design and programming
- back-end developer: leads server-side design and programming
- database administrator: leads data modeling and database programming

Technology requirements:

- Application server must be able run on the class Linux server – please ask in advance if package installs are needed.
- Application database must be MySQL.
- User interface must run in a common web browser, e.g., Chrome or Firefox.

Database interaction requirements:

- Application must create, read, update, and delete data.
- Application must include some analytic queries, i.e., aggregations of data.

The concept for your project can be decided with your team. For instance, you may choose to create a store from a particular industry, make a better SIS, or make project planning software or database modeling software.

Milestones:

- Team registration, due 10/26, noon. Anyone not on a team will be assigned to a team by 10/29.
- Project description and plan, due 11/1 noon.
- System design and data model, due 11/15 noon.
- Complete system (code, configuration, and data) and report, due 11/29 noon.
- Five minute presentations, with demo if possible, will take place on the last two days of class.

Grading:

- Each milestone will be graded as a group assignment and the final project will receive an overall grade.
- Final project grades will be decided individually based on review of contributions by each role.