Semester Project

Some general guidelines are:

- Your project should have a scope that is appropriate to a multi-month, three-person project.
- Your project should be robust enough to withstand use by users who are not the developers. It should be free of bugs. You may assume legal, good user input so that you can focus more on the more important aspects of the project.
- Any data that you store on the server side must be stored in a database.
- Your project should be well engineered. Your code should be well-designed, well-commented, and as simple as possible.

To submit your group’s project, name your group’s zip or tar file using the initials of one of the members, e.g., jed.zip or jed.tar if John E. Doe is a member of the group.

As part of your final submission, you should include a report which should include at least the following:

- General description of your project, including goals and requirements.
- Requirements.
- Use cases.
- User documentation (user’s manual), including aspects that would be needed for the database administrator. I as a user should be able to follow your documentation to see the configuration and be able to deploy and run your application. In your document you should provide the URL that we can use to access the front page of your web application.
- Which of your original goals were met and which were not. If not, explain why.
- How you might improve if you were to spend more time, say another month, on it.
- If you were to add additional features, what would they be?
- Any other that you would like to add.
- Code.

Some general requirements for the project include:
The user-interface should be web-based using any of the well-known web programming languages that you choose.

The application and trial data should be accessible to me. If you can’t meet this requirement, let me know in advance.

The bulk of the work should be in the area of software design and implementation, i.e., software engineering, rather than in supporting application code. Although the user interface can be non-trivial, it should not dominate other aspects of the project. Remember that this is a software engineering course, not a web programming course or a database course.

I am assuming that you will be hosting your database on an open-source non-proprietary database management system, such as MariaDB, MySQL, PostgreSQL, SQLite, probably on your own machine. Let me know in advance if this is not the case.

For your final presentation, you will be given 30 minutes (25 minutes of presentation/demo with 5 minutes of Q/A.

I would like to see at least the following in your presentation:

- General overview of the system being built
- Domain information of your system
- A key subset of requirements
- A key subset of use cases
- A key subset of the overall design of your system
- The software development methodology that you used and how it worked out for you. Good and bad aspects/experiences of the chosen methodology.
- Key features of the app
- Division of work among the members of the group
- Are there critical bugs (show stoppers) that you are still working on. Are you concerned about them? If so, what is the plan to overcome. How long would it take?
- What is still remaining before completing it.
- Any concluding remarks?
- Demo of your system in operation (implementation should be close to being complete by now)