IS 337 Programming Term Project – Requirements

The programming version of the term project for IS 337 is a full-featured website of your own design and construction with an approved concept. The website should be fully implemented and functional with an attractive design and appropriate functionality to implement your concept. The website may be implemented with Apache, PHP, and MySQL, or another programming language or framework of your choice which you will select and learn on your own. According to sitepoint.com, Laravel is the most popular PHP framework, and users find it easy to learn.

If your project is related to work you are doing for another class, you should discuss the situation with me.

The website should have
- Functionality sufficient to cover all the use cases
- Good design based on CRAP principles
- Good usability. It should be obvious how to do the tasks in the use cases
- Live content, so that the site is ready to go live and be used
- The ability for users to create accounts and log in and out if needed
- Administrator logins with special privileges
- Slogan
- Mission statement (possibly on the about page)
- A suitable privacy policy
- About page
- Contact form
- Secondary links including about, privacy policy, and contact us
- Google Analytics

At or before the final exam time period you will turn in your written report and give a copy to your client. It should include
- Meeting minutes, giving time, place, who was present, and any decisions made
- The project brief (checkpoint 0)
- The project definition (checkpoint 1)
- The results of site testing, including user testing, and the actions taken to improve any problems that were found
- An SEO analysis of the website and a plan for improving SEO
- Logins and passwords for Web hosting and for the Admin user in Drupal
- User documentation: explanations of how to accomplish tasks administrators and editors will need to do
- Deployment plans: will this be deployed and used? Domain name? Hosting info?
- Include a page of access information including logins, passwords, where the source code is located, etc. (Include in this report and give a copy to the client.)
- Comments on the experience: what did you learn? how could the project be improved next time?

At the end of the semester you will give a brief oral report and demonstration of your website for the class.
Grading (programming version)

A. Written report + presentation (20%)
   1. Purpose, name, slogan, and mission statement are well written and form a clear, compelling concept based on the client’s needs
   2. Two paragraph-sized use cases in narrative use-case format that capture the three most important kinds of uses of the site
   3. An explanation of what users will have to do at the site to accomplish each use case
   4. Report on user testing and actions taken
   5. A SEO analysis of the site analyzes the site for all the SEO suggestions given in class and describes how any deficiencies may be addressed
   6. Information where everything is located, hosting info, logins and passwords for Web hosting and database, admin user name and password
   7. Report on deployment plans
   8. Oral presentation of project

B. Website (20% for each part)
   1. Functionality
      • Functionality accomplishes approved project specs
      • User authentication
      • Special privileges for administrator login, and any other roles needed
      • Google analytics
   2. Good design
      • Design is attractive and follows CRAP principles
      • Primary and secondary navigation links
      • Custom favicon.ico & logo graphic
      • Good usability: it should be easy and logical to accomplish the tasks listed in the use cases as well as basic tasks such as logging in or out, viewing the privacy policy, etc.
   3. Good content:
      • Slogan
      • Mission statement
      • About page
      • Contact us form
      • A suitable privacy policy as discussed in class
      • Live content as needed for site to be deployed
   4. Difficulty of implementation, deployment
      • Overall difficulty of project
      • Must be deployed on calvinscs.com Dreamhost account