

CIS 332 Web Programming 1 – Fall 2024

Web Development Project Assignment 1 – Project Proposal

About Web Development Project

The goal for this project is for every student to have a chance to work on a “real” Web design and programming project. Your Web site must involve Web programming techniques including **HTML 5, CSS 3, JavaScript, Ajax, and limited server side programming technique (such as a guest form to collect user feedback).**

This is a team based project and you will work with another 1 or 2 students. When submitting your work, please make sure each student will obtain a copy of your project files and do his/own submission.

Presentation and Demonstration

Each student will have to present and demonstrate your Web project a few times over the semester. The final demonstration and presentation will be about 15 minutes including question and answer part. PowerPoint Slides are required for some presentations.

Project grade will be based on quality of your Web site, your presentations and project reports. Your Web site should be built using HTML 5/CSS and make sure your Web documents are **validated using W3 online validators**. You have to make sure **HTML 5, style sheets, tables, forms, JavaScript and Ajax** are used to build your Web site.

Project ideas

These ideas are just for your reference. You are free to propose your own ideas. It is ok for two or more teams to work on the identical project.

1. A web site to manage your own real, online, and digital experience: personal Web site, portfolio website used to impress your potential employers, student organization websites, games, music videos, social networks, etc.
2. A Web app for Data Science projects, probably using Python with some dedicated Python library like Streamlit.
3. A Progressive Web App (PWA), a Web app that provides an app-like experiences across devices, including offline access and push notification.
4. An AI-powered Web app like Chatbot, or for image creation, or for object detection, or for production recommendations.
5. The Re-design of an existing Web site.
6. etc.

What is for this Assignment? Proposal (3- 5 Pages)

Talk to other students to form a team. Then write a proposal together. Note: if you want to work by yourself, email your instructor and tell him why.

What to include in Your Proposal?

1. Title of Your Web Site (and any existing URL)

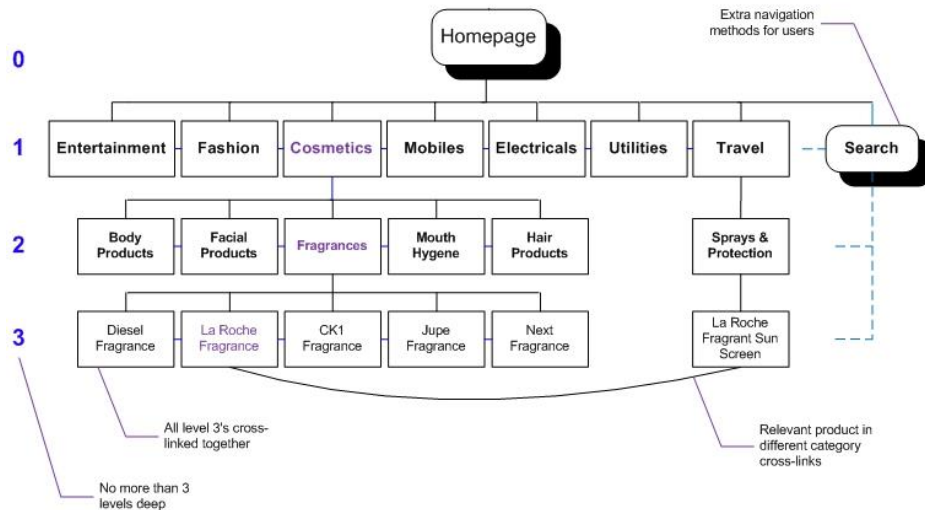
Project Title

Team Members:

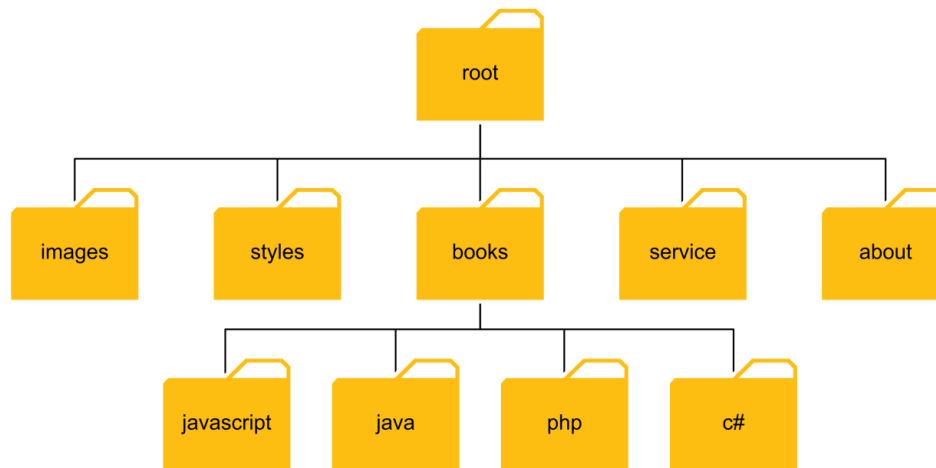
2. Project Summary

In this portion, you will include the following to your proposal.

1. Who? Give brief description about yourself and your experience on Web programming development. Why do you think you have a good Web programming team?
2. What? What Web programming project are you proposing?
3. Information Architecture and Website Structure. High level overview of your team project. You may draw some skeleton of the main pages for your Web site and how these pages link to each other. You may use **Microsoft Visio** to draw these diagrams.



4. Web site **folder** structure: A diagram such as below will help you figure out how you will organize your Web documents, including .html files, .css. files, JavaScript files, images, so on and so forth. You are free to use any drawing tools. Again, Microsoft Visio may be useful too.



5. Why? Why you want to work on this project? Who will be potential users/visitors to your site? How are you going to attract intended visitors to the site? How you plan to get visitors return to your site?
6. Technical aspects: What techniques do you plan to use to enhance the usefulness/look and feel of your site? HTML 5 and CSS are minimal. JavaScript, jQuery? And more. Are you going to use any server-side technology like databases?
7. How will your team work together? Extra time outside of classroom will be needed to complete your project. How will your team collaborate?

Site Analysis: What if I want to revamp an existing Web site?

If you are redesigning an existing site, then you also need to consider the following.

1. Analyze the site for problems with HTML, links, and speed of loading. Use software tools such as site sweeper, site checker, tidy and similar software to run a diagnostic on the entire site.
2. High level overview of the existing Web site. You may draw some skeleton of the main pages for the existing Web site and how these pages link to each other. Again, you may use Microsoft Visio to draw Web Site Map as shown above. Just enter the URL and Visio will get the outline for you.
3. Analyze the information architecture, completeness, consistency, site organization, navigation, user-friendliness, and presentation.
4. High level overview of the redesigned Web site. Also draw some skeleton of the pages and the relationship among these pages.
5. What difference your team tries to make? What ideas in architecture and organization would you propose to include for the new/improved site? What functionalities would you add to the site?