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# 420-WE6-AB - Web Development I

## Final Web Project

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*Late Assignments will not be accepted  
Due: See Lea*

### Final Project Overview

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This project is to design and develop PHP web site using recommended design practices. You will work in teams of 3 members to complete the final project. You should implement previously used techniques of HTML, CSS, JavaScript, and Website Design. Git Hub will be used to monitor the progress of the project. Updates to the repository are expected daily by all group members.

### Project Details

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The project will have you design and develop a website that requires the implementation of specific features and functionality. Each group will be provided a unique topic for which to develop a website. As a group you will define the overall concept, design, data model, and functionality. There are general features that will be required for all projects and each project will have its own set of required features relevant to their topic.

You will be provided a list of deliverables and requirements that your project must implement.

### Communication

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You are expected to work on this project daily and update your daily progress log files as a group and individually. The log files you provide will be reviewed by your instructor to ensure the work is not falling behind and milestones are achieved on time. Days that are reserved for the project can also include meetings with your instructor to discuss the status of your project. You are encouraged to communicate with your teacher should any issues arise with your project and or teammates.

### Git Repository

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A GitHub repository will be used to monitor the progress of your project. Start by creating a GitHub repository with all the members of your group. Include the instructor as a collaborator so that they may monitor the progress of the group.

Organize your Git Hub repository to include a folder with daily progress reports. Within this folder create a plain text document for each scrum meeting notes. This will allow your instructor to monitor how each member of the group is performing, the overall progress of the project, and ensure that work is being carried out everyday.

You are allowed to use the root of your repository as the root of your Web server to allow easier push and pull of modified files.

**Instructors GitHub:** stephaniemoreaujac

## Website

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Every group will be provided a unique topic for which to develop a website. There are general requirements that each group must adhere to, as well as a unique set of features that groups will need to implement in their website.

You will need to research web hosting and upload your website to a remote server to present your working website during the last class. You should select a domain name relevant to your topic and share the URL during your presentation.

Please do not fill your site with Lorem Ipsum dummy text. While the information you provided on your websites will be fictitious, present this website as if the information were realistic.

Your website should implement the following requirements. While the requirements for your project and your topic are limited, you are encouraged and expected to add functionality and features to your website for a logical flow.

*When referring to **items**, items will refer to the specifics of your groups topic.*

- User registration and authentication
  - o Allow users to register and login
  - o Registered user can modify their profile
- Registered user section
  - o Manage own profile
  - o View **items** interactions and checkout
- Website functionality
  - o Listing **items**
  - o Search with filtering
  - o **Item** interaction
  - o Checkout – only for registered users
- Administrative Panel
  - o Manage registered users
  - o Manage all **items** and associate data
- A contact us page
  - o Information about your group/topic
  - o How to contact the company and/or where they are located
- Home page
  - o The page where most users will enter your site

## Milestones

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Milestones are set in place to ensure the proper development of your website. They are to help keep you on track and ensure that each group has reached certain development markers by a specific time so as to not fall behind.

Class 5 10%	Initial workflow	Your wireframe and website design should be complete. Data Model and E/R diagram should be complete.
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Class 13 15%	Midway Evaluation	Main HTML and CSS should be implemented. Database should be setup. Some modules should be functional.
Class 17 ---	Testing Day <i>Recommended</i>	Project should be completed. Testing should be performed to ensure proper functionality
Class 18 25%	Presentation	Project due, live presentation.

## Requirements

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### Planning and Preperation

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Before starting to design and plan a Web site, it is important to spend some time planning the site. Begin with a plan, create a wireframe, and sample page sketches. Assemble the outline of the site and create a storyboard and flowchart.

All planning materials should be included in your initial workflow, and documentation.

### Data Model

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You are expected to properly analyze the required data for your website and normalize the information into 3NF and create an E/R diagram. You are expected to properly create all tables, attributes, and relationships.

A copy of your 3NF and E/R diagram should be included in your initial workflow, and documentation.

The following information should be used to connect to your database:

**Database name:** fsd10\_XX (*replace XX with your group name*)

**Database user:** fsduser

**Database password:** myDBpw

### Live Presentation

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For your live presentation during the last class, you will need to provide a URL for the class to visit. Your group will need to research a remote web server to host your website. There are several free options available that do not require any payment or credit card information. The domain name you selected should be relevant to your topic yet understandably free options include subdomain requirements.

Ensure that the service you select includes access to mySQL database.

### Documentation

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Here are some of the minimum requirements that should be included in your documentation. While graphics are not required in every section, they are encouraged if they can help better support the detailed information you are documenting.

#### Cover page

Include group name, website name

#### Table of Contents

Use the built styles and table of content feature built-into MS word

#### Planning and Preperation

Planning steps performed, wireframe, data model E/R diagram, target audience, research performed

## Website Details

Website URL, Git Hub Repository URL, Overall Goal and purpose of website, description of website section and overall workflow

## Communications

Daily explanation of progress (2-3 sentences per day), Individual team assignments

## Post-Mortem

What went wrong, what went right, what would you do different, how could you improve the website?

## Project Feedback

Overall impression of the project, ways to improve the project.

*This is a general question, not related to your website.*

## Deliverables

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There are three deliverables to be included throughout the duration of the class. Each will have their own dropbox in the assignment section on Lea, and each have their own set of requirements.

### Initial Workflow

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Your initial workflow should include your wire frame and designs used for the initial design concept of your website. You should also have a E/R diagram (in 3NF) with the expected structure to be used on your website.

For this milestone, zip appropriately named images, and upload them in the appropriate section in LEA. You should also include a plain text document to explain the research performed in regards to your design, colors, font, wireframe and/or data model.

- Wireframe / Design
- E/R diagram
- Plain text document

### Midway Evaluation

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The midway evaluation will ensure that all groups have been working sufficiently on their project. The midway evaluation will include of a 10-minute meeting with the instructor during which time all group members should be present to review and show the development of their project.

For this milestone, all source code and database creation script should be zipped and uploaded in the appropriate section in LEA.

- Source code
- Database creation script

### Final Product

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The final product should include the following listed items zipped in a single file. The zip folder should contain: one (1) folder for the source file of your website, one(1) folder of your database import scripts and a .docx file of your documentation.

- Entire website source files
- Database import script
- Written Documentation

## Grading Rubric

Your project will be graded on 100. The weight for the course can be found on Lea

Criteria	Excellent	Average	Unacceptable
<b>Code Quality /35</b>  <i>Functionality</i> <i>Code Quality</i> <i>Security</i> <i>Performance</i> <i>Organization</i>	PHP implemented without errors. Coding is organized, efficient, and utilizes variables, functions, and data structures appropriately. Comments quality improve readability of the code.  35-30	PHP implemented with some errors. Coding is mostly efficient and correct, some redundancies. Contains code that could be removed, shortened, or reused. Comments missing or underdeveloped  29-16	PHP implemented with several errors. Code organization, functions and control structures are improperly and/or ineffectively used. Comments missing.  15-0
<b>Data Model /10</b>  <i>Tables</i> <i>Entities</i> <i>Relationships</i>	The model provided contains correct structure to represent information gathered. Tables, entities, and relationships are valid and correct.  10-8	The model provided contains acceptable structure to represent information gathered. Tables, entities, and relationships are mostly valid and correct.  7-4	Data model is missing, incorrect and/or poorly structured. Tables, entities, and relationships are missing or incorrect. Data model is not normalized to 3NF  3-0
<b>User Interface /20</b>  <i>User Interface</i> <i>Functionality</i> <i>Visuals (Font, Color, Graphics)</i> <i>Proper Syntax (HTML, CSS, JS)</i> <i>SEO</i>	The webpage has an attractive and usable layout. It is easy to locate all important elements. Colors, fonts, and graphics are effectively used everywhere. No front-end errors produced. Proper copyright practices in place. The design is consistent.  20-15	The webpage has a usable layout but appears busy or boring. It is easy to locate most of the important elements. Colors, fonts, or graphics not properly implemented. Some front-end error produced. Design has some inconsistencies.  14-6	The webpage is cluttered looking or confusing. It is often difficult to locate important elements. Color, fonts, graphics missing or lacking. Quite a lot of front-end errors. Design is inconsistent layout is unpredictable.  5-0
<b>Documentation /15</b>  <i>Requirements</i> <i>Consistency</i>	Documentation has all required section, each is well detailed, properly annotated, and professional.  15-10	Documentation missing some required sections, sections lacking details. Inconsistency in design and styles.  9-5	Documentation is missing, most required section missing, unprofessional design.  4-0
<b>Completeness /20</b>  <i>Requirements</i> <i>Comments (PHP, HTML, CSS, JS)</i> <i>Spelling &amp; Grammar</i>	All requirements have been met. Comments are used to best describe the flow and structure of the code. There are no errors in spelling, punctuation, or grammar in the final draft of the website of documentation.  20-15	Some requirements have been met. Comments are lacking in some places to best explain the flow and structure. There are some errors in spelling, punctuation, or grammar in the final draft of the website of documentation.  14-6	No requirements have been met. Comments are missing and/or lacking in many places. There are a lot of spelling, punctuation, or grammar in the final draft of the website and documentation.  5-0