Web Development 2

Project 01a: Create a Presentation on a Web Technology

Project 01b: Create a Website on a Web Technology

Course Value: 50% (Project 01a: 25%, Project 01b: 25%)

Due: December 4 - 6, 2023 – 10:00 AM

Instructions for Project 01a:

1. You will be assigned to a group of four or five classmates.
   a. You will be in the same group for both projects 1 and 2.
   b. Working in a group is mandatory for this project. You can NOT work on your own for this project.
2. Select one of the topics listed below and let your instructor know which topic your group has selected.
   a. Once a group chooses a topic, it is no longer available to the other groups.
   b. Topics
      i. CSS Custom Properties (CSS Variables)
      ii. CSS Transitions, transforms, and animations
      iii. CSS selectors beyond class, id, and element selectors
      iv. 3 - 5 new or up-and-coming CSS technologies
      v. SVG
      vi. Markdown
      vii. Bootstrap or similar framework
      viii. Web APIs such as Geolocation, Fetch and Web Storage
      ix. Static Site Generators
      x. Progressive Web Apps
      xi. Other topics with instructor approval
3. Reserve a presentation time slot for your presentation.
   a. You can choose between 1 – 3:40 PM on Day 9 and Day 10 of this course.
      i. You will be given a 20-minute time slot.
         1. Your presentation should be between 10 and 20 minutes.
4. Create a presentation around your selected topic.
   a. The presentation should discuss:
      i. The technology
         1. What is it, what does it do, why use it, where would you use it
      ii. A code demo and code walk-through.
   b. Present it to the class.

Instructions for Project 01b:

1. Create a corresponding website in HTML, CSS, and JavaScript
2. The website should discuss:
   a. The technology
   b. What is it, what does it do, why do you use it, where would you use it, and how do you use it?
3. Create a public repository on GitHub and create a GitHub Pages site for displaying your webpage.
   c. Give these instructions a read for information on creating a GitHub Pages page.
      i. https://docs.github.com/en/pages/getting-started-with-github-pages/creating-a-github-pages-site
   d. Share the URL to your GitHub Pages site with the class in the Web Development 1 channel of the FWD Slack Workspace.

Project Questions:

- What technology should my presentation be in?
  o You can use whatever you like…
    ▪ PPT, Google Slides, Canva, or other web-based presentation tools could be used.
    ▪ Create a web page and present that.
    ▪ Create demo pages and show your code…
  o The goal of the presentation is to communicate what, why, where, and how of the technology to the class.
- Can we show a pre-existing YouTube video not made by our group on the screen and call it a day?
  o No, however, if the video you are showing is less than 30% of the total duration of your presentation, then that is fine.
  o You are allowed to include links to videos or embed videos made by others on your GitHub Pages website.
- Can we use Bootstrap for our GitHub pages site?
  o Yes.
- Can we use other web technology like Sass and jQuery?
  o Yes, if it is compatible with GitHub Pages.
- Can we upload our presentation to our GitHub pages site?
  o Yes, if you think it adds to your webpage.
    ▪ Just make sure to link to it in your document. Don't just upload it to your GitHub repo.
- Do we have to attend the other group presentations?
  o Yes, if you do not attend the other groups' presentations without a valid reason, you will receive a 10% penalty.

Project Submission

- o Your live presentation is considered part of your project submission.
- o One group member should submit a URL to your GitHub pages site in the dropbox for this assignment on The Learning Hub.

Marking Criteria:

- Presentation (see rubric)	25 marks
- GitHub pages site (see rubric)	25 marks

Penalties

- - 5% per day to a maximum of 50%. No projects are accepted 14 days after the project due date.
- - 10% for not being in attendance for other group presentations.

Rubric: Project 01a - Presentation

Total Points: 250

Criteria (Total Points)	Excellent	Good	Satisfactory	Unsatisfactory
Topic Understanding (80)	**Points: 80**	**Points: 64**	**Points: 52**	**Points: 40**
	Comprehensive understanding of the selected web technology, well-articulated rationale for its use and applications.	Good understanding, some key aspects not fully understood.	Basic understanding but significant gaps.	Fails to show adequate understanding of the topic.
Code Demo and Walk-Through (60)	**Points: 60**	**Points: 48**	**Points: 39**	**Points: 30**
	Exceptionally clear and insightful code demonstration, contributing to understanding of the technology.	Code demo is functional but lacks depth in explanation.	Code demo is present but flawed or unclear.	No code demo or entirely irrelevant.
Presentation Skills (60)	**Points: 60**	**Points: 48**	**Points: 39**	**Points: 30**
	Exceptionally clear, engaging, and well-organized presentation.	Presentation is adequate but not engaging or has some disorganization.	Presentation is disorganized or not fully coherent.	Presentation is unclear, incoherent, or largely off-topic.
Group Collaboration (20)	**Points: 20**	**Points: 16**	**Points: 13**	**Points: 10**
	Clear evidence of equitable and effective collaboration among all group members.	Adequate collaboration but some group members are not fully involved.	Limited collaboration; one or more group members are not contributing.	No evidence of collaboration; work is uneven or incomplete.
Relevance and Originality (20)	**Points: 20**	**Points: 16**	**Points: 13**	**Points: 10**
	Adds unique perspectives or elements that go beyond the basic requirements.	Meets all requirements but lacks originality.	Meets basic requirements but has significant omissions.	Fails to meet basic requirements or is off topic.
Time Management (10)	**Points: 10**	**Points: 8**	**Points: 7**	**Points: 5**
	Adheres perfectly to the 10–20-minute guideline, using time effectively.	Presentation is rushed or slightly over the time limit.	Presentation is significantly rushed or over time.	Presentation is either too brief (< 10 mins) or too long (> 20 mins).

Rubric: Project 01b - Website

Total Points: 250

Criteria (Total Points)	Excellent (Points)	Good (Points)	Satisfactory (Points)	Unsatisfactory (Points)
Content Quality (100)	**Points: 100**	**Points: 80**	**Points: 65**	**Points: 50**
	Comprehensive, insightful overview of the selected technology that fulfills all specified content requirements.	Good overview, but some aspects are missing or unclear.	Provides basic information, but with significant gaps.	Content is missing or largely off-topic.
Design and Usability (100)	**Points: 100**	**Points: 80**	**Points: 65**	**Points: 50**
	Exceptionally user-friendly and visually appealing design that enhances the content.	Generally usable and visually consistent, but with minor issues.	Usable but has some major design or usability issues.	Not usable; multiple serious issues present.
Code Quality (30)	**Points: 30**	**Points: 24**	**Points: 20**	**Points: 15**
	Code is clean, efficient, and follows best practices.	Code is generally good but has some inefficiencies or lacks best practices.	Code is functional but messy or has major inefficiencies.	Code is non-functional or extremely inefficient.
GitHub Pages (20)	**Points: 20**	**Points: 16**	**Points: 13**	**Points: 10**
	Public repository is well-organized, and GitHub Pages site is properly set up. URL is shared as instructed.	Repository and Pages site are functional but could be more organized.	Issues in repository organization or Pages setup.	Repository is not public, or Pages site is not set up or URL is not shared.