

# Final Project

## **Guidelines:**

- I. Make sure you **have teams, no solo**. If some special circumstances apply, contact me. One of the major obstacles with teams was difference in defense. So, in final score will be calculated as in Assignment 4, where failure of team members will affect only these members' final score. However, there is a core score which will be calculated from the **Core\_grade\_CS223X\_TeamY.xlsx** file.
- II. In final project, your team's goal is to use the course materials to develop a full website that must have at least 3 web pages.
- III. Have new project idea, **DO NOT repeat any of the previous projects** of your team or any other team!
- IV. No Php or any other out-the-course-material will be graded, use only those technologies which were covered in this course!
- V. **Just ONE student** from the team must submit to the Moodle. Avoid multiple submission of the same team project.
- VI. If you have problems with irresponsible teammates, make sure you email me (as described in Moodle team work announcement) before 14.06.2023 by 7:00pm. For this kind of situations we follow the initial rules described for Assignment 4 in Week 7.

## **VII. Milestones:**

- I. Initial team and project selection - **10.06.2023 by 2pm**. It is already described in the announcement of Week11;
  - II. Pre-Final project - **19.06.2023 by 22:00**. At this stage it is your responsibility to make your project fully complete. Your submission needs to be full, but you still have a chance for some updates. It to make sure you have your project ready by this date.
  - III. **Final Project - 22.06.2023 by 22:00**. It is the final version of your final project that we will upload during the final exam day for your team to present and defend. It needs to be full and **NO chance for further updates**. Therefore, it is your responsibility to make sure your project qualify all the requirements.
- VIII. Your final project submission needs to have the following parts:
1. **Core\_grade\_CS223X\_TeamY.xlsx**: the template is already given. Instead of X&Y put your group and team numbers and fill the information according to your project info. This check-up excel gives your opportunity to fill up where you forgot before the final submission of the final project;

2. **Report:** it is basically report you submitted as in Assignment 4. Do here the same.
3. **Presentation:** should be in ppt or pdf format. Needs to be 7-10 slides describing all the main parts of your project. Hint: try to sell your project by making your presentation clean and self-descriptive for the potential customers of your website.
4. **Project folder:** **zip** the entire project folder and submit along other three documents. If the zip file is too heavy, just make sure that you have your GitHub repo&website links as described below.
5. **Github links:** as the full project folder with all the images might weight too heavy for the Moodle, you need to write in the report, presentation and comments of Moodle submission Github links for easy access to the code. In total you need to have two links: **one to the repository**(from where you can show the codes) and the other to the actual **website hosted on GitHub** (remember we did it in CV assessment, where with the link we could open fully functional website from any computer)

IX. The project requirements and grading are described below.

**\* By this time you should have formed teams and finalized on your project topic.**

**\*\* No matter what is your project's theme, using this detailed requirement and grading structure, make sure you meet all these requirements to score the maximum. Think how to implement your project's structure and design so that it will be coherent with your project's idea.**

## ***Project Requirements and Grading:***

Requirements	Grading
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<p><b>HTML, CSS and Bootstrap:</b></p> <ol style="list-style-type: none"> <li>1. HTML elements: you need to have these main components for each webpage you have in your website:             <ol style="list-style-type: none"> <li>1. <b>Header:</b> make sure it is consistent throughout all webpages and must have following items:                 <ol style="list-style-type: none"> <li>1. Your company's logo;</li> <li>2. Navigation bar that has tabs that are related to your project, make it <b>consistent throughout ALL webpages</b>;</li> </ol> </li> <li>2. <b>Body:</b> for each webpage you <b>must</b> have different body content, but at least these elements need to be present in at least one of the webpages:                 <ol style="list-style-type: none"> <li>1. <b>img:</b> you have an images folder in the project folder and path is written correctly so that all images shows up on any device;</li> <li>2. <b>table:</b> depends on your project's design and theme; It can be table of images/text/lists/etc;</li> <li>3. <b>form:</b> the perfect one will be some sort of registration form like in Lab4, where each entry is automatically checked for being in proper format and needs to have a submit button that proceeds further only if correct type of data is entered. <b>Required inquiries must be:</b> email with validation of email format, phone with validation of email format, calendar with time limit, dropdown menu, checkbox;</li> </ol> </li> <li>3. <b>Footer:</b> of your choice: anything depending on what your website might need;                 <ol style="list-style-type: none"> <li>1. Copyright;</li> <li>2. Terms of use (when you press it needs to open a pdf file that has these "rules" in new tab; pdf might be any document);</li> <li>3. Some informative and visually nice-looking contact us part that might be a links to your social media;</li> </ol> </li> </ol> </li> <li>2. CSS: have a nice, clean and compact css part; make sure you don't have unused code.</li> <li>3. Bootstrap:             <ol style="list-style-type: none"> <li>1. Buttons: make it responsive with js. What your buttons will do depends on your project's design and theme, but you need to implement at <b>least one active button in each webpage</b>;</li> <li>2. Grid layout system: very important. Make sure that all elements <b>throughout ALL your webpages are adjustable to different device sizes</b>.</li> </ol> </li> </ol>	30%
<p><b>JS and DOM.</b> Show your knowledge in JavaScript and DOM. Create JS objects and its properties;</p> <ol style="list-style-type: none"> <li>1. Use selectors, methods and events;</li> <li>2. Use at least three event listeners such as "click", "mouseover", "keypress"; If you used some other event listeners, clarify it in 'Notes' column in grading excel;</li> <li>3. Create at least one animation by using JS functions;</li> <li>4. Play at least one background music on your page by using JS. It needs to have a feature of visible mute/unmute.</li> </ol>	25%

<p><b>Web Design.</b> Professional and concise design is the first and main that forms user's impression of your website. Follow the recommendations and rules from the lecture of week 5.</p> <ol style="list-style-type: none"> <li>1. Draw a wireframe of each webpage and add them as a pictures into the project's folder. Using Figma is allowed.</li> <li>2. Combine and use not more than 2 font family on the whole web project; Try to avoid font families such as Comic Sans MS;</li> <li>3. Get serious about choosing the color palette of a web project, be prepared to answer questions about what message and mood your color scheme conveys; if you have difficulty with color combinations, you can use <a href="https://colorhunt.co/">https://colorhunt.co/</a></li> <li>4. Don't forget about UI basic rules: Hierarchy, Layout, Alignment, White Spacing and Audience. If you forgot what do all rules mean, go back to the lecture about Web Design Basics;</li> <li>5. The last, but not least thing is the UX rules:             <ol style="list-style-type: none"> <li>1. Simplicity: make sure that the is no extra. Each element needs to be functional and in place;</li> <li>2. Consistency: use the SAME colors, typography, icons style, navigation bar etc;</li> <li>3. Reading Patterns: make sure that all the text in your webpages consistently follow F or Z pattern (as self study you can read <a href="#">this article</a> or <a href="#">this one</a>).</li> </ol> </li> </ol>	20%
<p><b>Self Study.</b> Go to the "<a href="#">How to</a>" section of <a href="#">w3schools</a>. Explore the list of code snippets in HTML, CSS and JavaScript. Try the code snippets in the exercise windows, modify the codes for your project and use at least two snippets per webpage.</p>	18%

<p><b>Teamwork.</b> Pick one member, who will be responsible for submitting the project.</p> <p>1. <b>Core_grade_CS223X_TeamY.xlsx</b>: the template is already given.</p> <ol style="list-style-type: none"> <li>1. Fill it with your project's information, indicate in '<i>Note</i>' column where each item is located: <ol style="list-style-type: none"> <li>1. if it is a separate file, then just write the name of the file;</li> <li>2. if it is inside a file, then write a file&amp;lines where it is coded in that file.</li> </ol> </li> <li>2. Writing that you have an item, but if during check-up, it will be considered as cheating with related consequences!</li> <li>3. Do not add any ROWs and columns, because it's order is very import in automatic calculation your team's core score.</li> <li>4. It gives you chance to grade your work before it is graded, so that you can add missing parts to it before the deadline and maximize your core scores.</li> <li>5. <b>This core score in addition to your defense score will be taken into account to the calculation of your final score for the final project.</b></li> </ol> <p>2. <b>Report</b>: fill out the answer to all the questions as in Assignment 4 and submit it with your project submission;</p> <p>3. <b>Presentation</b>: it needs to be 7-10 slides. Required: it highlights all the main points of project, and you present your project as if you are going to sell it.  <b>Required information your slides need to have:</b></p> <ol style="list-style-type: none"> <li>1. One slide needs to have team info: have photo of each member with short description of what parts of the project he/she did.</li> <li>2. One slide describing whatever elements implemented in <b>EACH</b> webpage(from HTML part your know that each page needs to have different body sections);</li> <li>3. One slide for Design: describe which 2 fonts and 3 colors your choose and why you choose them;</li> <li>4. One slide for advantages you have over the similar websites;</li> </ol> <p>4. Your project must contain:</p> <ol style="list-style-type: none"> <li>1. favicon</li> <li>2. font awesome icons</li> <li>3. published in Github</li> </ol>	<p>7%</p>
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