CP1406 Group Website Project

Overview

In this project, you will work as part of a team to create a website doing the planning, design, production, usability testing and publishing, using HTML, CSS and JavaScript. The project will require research, self-directed learning, teamwork and consultation with your tutor and lecturer. Please ask any questions about this assignment on the LearnJCU discussion board or Facebook group.

The project is to (re)develop a site for the **Barrier Reef Orchestra** (BRO).
You will be provided with some content and a reasonable idea of mission and target audience.

Important: The old (existing) BRO site (http://www.nqorchestra.com.au) should give you an idea of content but **NOT** design or information architecture. Plan and design the site mostly as if the old site did not exist. If it were good and appropriate the way it is now, we wouldn't be making a new site.

You have two separate milestones. These are summarised here with further details below:

Milestone 1 - Project Plan & Design Comps (10%, due week 10)
Create a project plan (including goal and audience analysis, flowchart, text, images and screen designs) and two developed pages, which your group will use to make the finished site.

Milestone 2 - Finished Product (30%, due week 13)
Use the project plan to develop a functional, finished site. Your site should be "completed" by week 12, so that it is ready for usability testing. Assessment of this milestone is for both completeness and quality.

Finished site components at a minimum are:

Important: These requirements are not specified as pages, but as features or functionality. The information architecture is up to you to decide on and the page titles are able to be changed.

Home Page:
- with content written to rank well on search engines and a clear purpose (goal-driven)

General Information:
- news, about, history, contact, sponsorship details, etc. – organised and presented well

People:
- feature the special guests and life members as well as the management committee

Events/Concerts:
- display any upcoming concerts or events and link to ticket sales

Photo Gallery:
- use a JavaScript photo gallery library to display photos attractively and interactively
- the style of the gallery should match your site

Forms:
- create an online form based on the old site's PDF file for becoming a benefactor
- create contact/enquiry/join the orchestra form or forms - you decide how best to handle this
    - your forms do not need to "work", but should be set up so that they could be made to work easily in the future (e.g. name your fields well)
    - set the action of any form to: http://ditwebtsv.jcu.edu.au/~sci-lmw1/forms.php which will display the variables and values you have submitted
    - you need to use JavaScript to validate your form data prior to form submission

Facebook Integration:
- Integrate the orchestra's Facebook page (https://www.facebook.com/nqorchestra) into your site. Use available JavaScript tools to provide a meaningful integration, not just a link.

Responsive Design:
- Use CSS to ensure your site is responsive and displays well on mobile phones, tablets, and desktop browsers in large and small windows.
- You are not allowed to use an existing framework like Bootstrap or Foundation, but you may learn from and use parts of those sort of things.

Teamwork Process

In your practical in week 7, you will meet with your team to get to know one other and discuss the plans for the teamwork and initial ideas for the website.

Each week your group will meet with your tutor during practical time to get feedback on your teamwork and site development. It is up to you how else you would like to work together each week. This is something to discuss in the first team meeting.

In week 12 you will follow a prescribed usability testing process involving realistic users, whom you will need to organise for a live testing session. You will then update and improve the site based on the results of this testing.

Version Control

Use GitHub (https://github.com) for version control and collaboration. One person should set up one repository (repo) and add the other team members as collaborators. Then as you work on the project together you can work on current files, making commits with clear messages so that we can keep track of who is doing what work, and you have a history of versions to help manage the process. Use wikis, issues and other features of GitHub as you wish.

Peer Assessment

Share the workload as equally as possible. Make sure you talk about how best to distribute the tasks. You will submit a peer assessment describing the breakdown of work, in order to handle any cases of inequity. The peer assessment will include listing what each member of the team did and rating their teamwork contributions.

Students who "freeload" by letting the other student do an unfair portion of the work will have their marks reduced. Students who do not manage the teamwork aspects effectively (e.g. are unnecessarily difficult to work with) will have their marks reduced even if they do a lot of work.

If there are problems in your group, please discuss this with the lecturer early on. Do not wait until the project is finished to deal with any issues. Be nice. Play fair. Work hard. Work together. Communicate well.

Milestone Details

Milestone 1 – Project Plan & Design Comps – 10%
Due: Week 10, Wednesday 07/10

This milestone is the initial planning (similar to assignment 1) and early stages of the design and development of the site.

Plan:
Complete the **plan.html** file with clear details, as follows:

Mission Statement
Concisely state what the goal (purpose) of the website is. Note that the mission must be to improve something in a measurable way. Why is the site needed? How does it benefit the client? Be clear and specific. Good mission statements are only a few sentences and contain no unnecessary information.

Success Evaluation
Describe the process(es) by which the site's success will be evaluated. How do you know that the site does what the client wanted? Measure the mission you stated above.

Target Audience
Describe two things clearly and specifically:
1. the target audience that your site is intended for (be specific; you can't aim for everyone)
2. how you will intentionally design the site to cater to this group (as distinct from any other, different target audience).

Content
This section should contain a dot-point list or table of the **pages** you intend to make and the **content** to go on each of those pages. Create the flowchart based on this.

Site Flowchart
Create a site flowchart to show the hierarchy of pages in the site and their relationships.
Each page should be represented by one box. Each line/arrow represents a link. The order of boxes is the order these links should appear on the site.
If you don't have a preferred drawing program for flowcharts, use www.draw.io.
Save your flowchart as a PNG and insert the image in your plan file under this heading.

GitHub Repository Link

Design Comps & Developed Pages:
Create design comps (comp = comprehensive dummy, a good mock-up of a page that clearly shows the intended design) for two "levels" or styles of pages. You may create your comps either as images (using a drawing program like Photoshop) or as HTML pages.

Comps required:
- Home page
- Text-based page designed for reading, not scanning (like About Us or something - depends on your plan and what pages you decide on)

Develop any two pages you choose using HTML and CSS.

Your pages and designs should be completed as much as possible (no place-holder text/images), but you can modify your work for the final submission. So they should be mostly complete, but do not need to be perfect. An important goal of this milestone is to give your group something to talk about with each other and your lecturer to improve on for the final site.

Submission:
1. Upload your work to a folder called **m1** in your group's space on ditwebtsv or ditwebcns:
   http://ditwebcns.jcu.edu.au/~broXX/m1   (where XX is your group number)
   Complete the provided index.html file that links to all of the requirements.
2. Upload a zip file containing all of the files for this milestone to LearnJCU.
3. Ensure everything is up to date on GitHub. Tag this commit "m1".

Marking

	Exemplary (3 marks)	Satisfactory (2 marks)	Marginal (1 mark)	Unsatisfactory (0 marks)
Mission	Mission is clear in the first sentence, contains goals for the improvement of the company that are measurable, does not contain unnecessary or vague content	Statement is not as clear as it should be, contains unnecessary information, too brief or too long	Statement is vague, not clearly measurable, too brief or too long, goals are not to do with the company that would be paying for the site	No discernable mission, nothing measurable, inappropriate length
Success Evaluation	Specifically explains how the mission (improvement) will be measured (quantified)	Measurement is not the best match for the actual mission, or does not use quantifiable metrics	Does not measure the actual mission or does not use quantifiable metrics	Vague or inappropriate success definition (e.g. hits)
Target Audience	Clearly identifies a specific target group, and specifically describes how the site will be designed to suit that target audience	Audience definition lacks clarity, description of site design is not specific enough to suit the target audience	Audience definition is too broad or too narrow, does not clearly describe site design for the target audience	Audience is vague or inappropriate, does not describe site design for the target audience
Content	All content is clearly listed by page, well organised	Content is mostly well organised	Some content is missing and/or organisation is poor	Missing content and poor organisation
Flowchart	Clear layout, shows hierarchy and page/section relationship, correctly shown as one box per page	Diagram is sufficient but lacks clarity	Diagram has mistakes in it (e.g. not every box is a page), inconsistent or incorrect visual language used	Diagram is unhelpful, hierarchy is not represented
Information Architecture (based on plan)	Content has been thoughtfully organised to be suitable for site goals, calls-to-action are clearly used	Content is mostly well-organised, not sufficiently goal-driven	Not all content is well-organised, missing clear calls-to-action	Content placement seems illogical
Interface Design (comps & pages)	Design is professional, consistent, suitable for site goals and audience	Design is fairly good, not as suitable for site goals and audience as it should be, minor inconsistencies across different pages	Design is not suitable for site goals and audience, obvious inconsistencies across different pages	Poor quality, not suitable for site goals and audience
Information Design (comps & pages)	Text has been reformatted to be suitable for scanning and for this site's goals, images enhance meaning of text	Most content is well-formatted but some text needs to be made more scannable, images mostly help	Some content is well-formatted but not all, contains large blocks of text designed for reading not scanning	Text appears just copied from client content
HTML + CSS (developed pages) worth double	Content and design elements are all present, HTML & CSS used appropriately	Content and design elements are mostly present, HTML & CSS mostly used appropriately	Important content and design elements are missing, HTML & CSS problems	Content and design elements are mostly missing, HTML & CSS problems

Milestone 2 – Finished Site –30%
Due: Week 13, Wednesday 28/10

This is the finished website, the result of your team going through the complete design and development process. Assessment of this milestone is for both completeness and quality.

Complete the provided report file called **report.html**, which must contain brief dot-point details for:

- a link to the GitHub repo where you stored and collaborated on this project - this allows the lecturer to view the progress/history of your development work and see who made which commits at what times

- the work that you have completed and any details required to test the site, including any instructions if needed, outstanding issues (e.g. things that look like they work but don't)
- references for any code, images or content that you have used that is not your own
- PMI - your group should spend some time reflecting on the process and describe here the **P**luses, **M**inuses and **I**nteresting aspects of your teamwork process and result

Please note that it is acceptable to find and use code for parts of your site. You must write the core functionality yourself. You cannot use any existing content management systems or existing frameworks or templates. The work you submit must be substantially your own, but using existing libraries to achieve parts of it is actually good practice and is recommended. In particular, you are welcome to use existing JavaScript libraries and example code for adding interest and functionality. Please ask on the LearnJCU discussion board or Facebook group if you are unsure about what is considered acceptable.

You must reference any code that you use that you did not create in your **report.html** file.

Submission
1. Upload your site to the public_html folder for your group:
   http://ditwebtsv.jcu.edu.au/~broXX
2. Upload a zip file containing all of the files for this milestone to LearnJCU.
3. Ensure everything is up to date on GitHub. Tag this commit "final".

Marking

	Exemplary	Unsatisfactory
Content (5 marks)	The content of the website is complete and of a high standard. Content has been written/edited to suit the Web, the audience and site goals. Content is goal-driven.	Content is incomplete and/or of a low standard, containing errors and not being suitable for the Web, audience or site goals. Not goal-driven.
Information Design (10 marks)	Text has been (re)formatted to be suitable for page purposes and for this site's goals, images enhance meaning of text. Calls-to-action are used appropriately and well designed.	Text appears just copied from client content or is poorly presented, images not used or not used well to enhance communication. Missing calls-to-action or these are not well designed.
Interface Design (10 marks)	Design is professional, consistent, suitable for site goals and audience. Navigation is well presented.	Poor quality, not suitable for site goals and audience. Navigation is poorly presented.
Information Architecture (10 marks)	Content has been thoughtfully organised to be suitable for site goals. Good naming of pages/links. Processes are easy to follow due to good design. It is easy to locate all of the important elements.	Content placement seems illogical. Poor naming of pages/links. Processes are hard to follow due to poor design. It is often difficult to locate important elements; or information is missing.
HTML & CSS, Technical Aspects (10 marks)	CSS is used effectively to separate form and function. The content structure is correct and viewable with styles disabled. External style sheet(s) used as appropriate. Selectors are well-chosen (elements, classes or ids as appropriate). Class names are meaningful. HTML and CSS code is appropriate and all code is valid. alt attributes and sizes are used correctly for all images. Website performs at a user-friendly speed, file sizes are appropriate. No technical problems can be found.	CSS is barely used or poorly used. Class names are not meaningful. Styles are inappropriately embedded in HTML. Content structure is not suitable without styles, or form and function are inextricably linked. HTML code is used inappropriately (e.g. use of deprecated elements or attributes). alt attributes are not used for images. Broken links, images not displayed at actual size. Website performs slowly, file sizes are too big or images are over-compressed. HTML and CSS code does not validate.
JavaScript (10 marks)	Sufficient use of JavaScript to enhance the presentation and functionality of the site. All code used is of a high standard in terms of identifier naming, formatting and commenting.	Insufficient use of JavaScript. Code used is of a low standard in terms of identifier naming, formatting and commenting.
Report (5 marks)	Report is complete and shows thoughtful reflection on the group development process.	Report is incomplete and/or reflection is insufficient or unthoughtful.