CP1406/CP2010 Group Website Project

Overview

In the project, CP1406 and CP2010 students will work together as part of a team with different roles to create a website doing the planning, design, production, usability testing and publishing.

CP1406 students will primarily work on the front-end HTML, CSS and JavaScript, and CP2010 students will develop the dynamic back-end part of the site with PHP and SQLite. The project will require research, self-directed learning, teamwork and consultation with your lecturer and tutor.

The project is to (re)develop a site for the Townsville Community Music Centre (TCMC). You will be provided with some content and a reasonable idea of mission and target audience.

> **Important:** The old (existing) TCMC site (http://townsvillemusic.org.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.

Please ask any questions about this assignment on the LearnJCU discussion board or Facebook group.

You have 2 (CP1406) or 3 (CP2010) separate milestones as part of this one project. These are summarised here with further details below:

CP1406 Milestone 1 - Project Plan & Design Comps (10%, due week 9)
Create a project plan (including goal and audience analysis, flowchart, text, images and screen designs), which your group will continue developing to make the finished site.

CP2010 Milestone 1 - Database Code (10%, due week 9)
This milestone will help CP2010 students get started developing the dynamic side of the site. The deliverable will be a working SQLite database and PHP code that demonstrate displaying, adding, modifying and deleting data in a database. To help get you started, you have been given sample code (phonerecords) that demonstrates much of this functionality.

Milestone 2 - Finished Product (30% for CP1406 / 25% for CP2010, due week 13)
This is the full, finished product website, the result of your team going through the complete website design and development process. 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 during the week 12 practical. Assessment of this milestone is for both completeness and quality with a focus on the front-end side for CP1406 and back-end side for CP2010.

CP2010 Milestone 3 - Presentation (5%, due week 13)
You will present your finished product to your peers, staff and the (fictional) website "client". You should think of this presentation a bit like a sales pitch – showing how you achieved the client's goals and highlighting the good aspects of the site.
Note: CP1406 students do not have this third milestone.

Finished site components at a minimum are:

> **Important:** The requirements here are not specified as pages, but as features or functionality. The information architecture is up to you to decide and the page/feature titles (e.g. "bulletin board") are also able to be changed. E.g. the old site has a separate sponsors page, but you might like to combine this with the contact or about us page, or whatever you think is best as a result of careful consideration in your planning.

Home Page with content written to rank well on search engines (including meta data)

Artists (Musicians):
- display all artists (list) - short information text and an image
  - filter artists by category (categories should be created/edited by the admin)
  - artists can be in multiple categories
- featured artist (customisable) - only one (or zero) at a time, so setting one as featured should unset any other existing one
- clicking on an artist to display more detail on a separate page - detailed information and larger image

Events:
- display all events (list), sorted by date (soonest first)
- events featuring a registered artist should link to that artist's page
- events should 'expire' and not display on the site after their date

Bulletin Board:
- registered users can submit notices, which display on this page
- each notice should have an expiry date and may have an external link

Membership Registration:
- this should describe registration and membership benefits and allow users to sign up online using details from the Word doc form on the old site, but handled all online
- users should use their email as login and create a password (stored encrypted)
- users can become registered users for free, which allows them to log in and submit and edit/delete their own notices (as above)
- registered users can be made into paid members by an admin (back-end); they can then also submit and edit/delete artist information
- you do NOT need to handle any payments for membership, but can simply link to PayPal as on the old site.

So there are three kinds of users with login accounts:
- registered users (can submit/edit notices)
- paid members (can submit/edit notices and artists)
- administrator (single account, can submit/edit everything including content and users)

One "Feeder" Page - this is a content page designed to capture users looking for something related (music) and feed them back into the site.

Plus: **contact information, sponsor details and information about the organisation**

Dynamic Functionality

This section describes more detail for the functionality of the various features listed above and the administration back-end.

Content Management

The CP1406 students will provide representative HTML/CSS pages with static content (e.g. a page with a number of artists on it), which CP2010 students will turn into dynamic PHP pages that use this structure to present the information retrieved from your SQLite database.

Details (including images, dates, links, descriptions) must be stored in and retrieved from one SQLite database. (Images themselves do not need to be stored in the database, but you can store file names in the database and images as regular files on the server.)

Back-End Administration

All dynamic data (whether submitted by users or admin) needs to able to be created, edited and deleted by an administrator using a password-protected 'admin' section of the site. This includes: users, notices, artists and artist categories.
(This means that testing of your site for marking will include this adding/removing/editing.)

These requirements form the 'base standard' for the functionality, but you may decide to go beyond this as appropriate, and within reason (e.g. you are welcome but not expected to make other content like sponsors dynamic). Exactly how you choose to implement the required functionality is for your team to decide based on thoughtful planning.

Teamwork Process

In your practical in week 8, 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 swapping with other groups. You will then update and improve the site based on the results of this testing.

CP2010 students present the final site in either the lecture or a practical class in week 13.

Version Control

Use GitHub (https://github.com) for version control and collaboration. One person should set up one repository (repo) and add all of the members of the team as collaborators. Then as you work on the assignment 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 issues and other features of GitHub as you wish.

Team Assessment

You need to share the workload as equally as possible. It is important to talk about how best to distribute the tasks, and to keep working consistently in an equitable manner.
Teams will need to submit a written 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. Likewise, 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

CP1406 Milestone 1 – Project Plan & Design Comps – 10%
Due: Week 9, Thursday 23/04

CP1406 students are responsible for the initial planning (similar to assignment 1) and getting started with the design and preliminary 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 usually 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 another, different target audience).

Content
This section should contain a dot-point list of the pages you intend to make and the content to go on each of those pages. Use a table or nested list or something clear. Create the flowchart from 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. The order of boxes is the order these links should appear on the site. Note that this flowchart does not need to include the "back-end" processes like adding and editing dynamic content.
If you don't have a preferred drawing program for flowcharts, use www.draw.io.
Save your flowchart as a PNG file (normally the best file format for plain, straight-lined diagrams like this) and insert the image in your plan file under this heading.

GitHub Repository Link

Design Comps:
By this stage, you must have completed design comps (comp = comprehensive master, a good mock-up of a page that clearly shows the intended design) for three "levels" or styles of pages, and developed at least one page using HTML and CSS.
You may create your comps as either images (using Photoshop or something) 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 have)
- Artists page (list of artists)

Developed page:
- Single artist detail page

Your page and designs should be completed as much as possible (no place-holder text or images), but you can modify your work for the final submission. So they should be 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/tutor to improve on for the final site.

Submission

1. Upload your work to a folder called **m1** in your group's space on ditwebtsv/cns, e.g. **http://ditwebcns.jcu.edu.au/~tcmc01/m1**
   Do NOT include an index.html file. This means that viewing this site should show a list of files including your plan and comps. Name your files appropriately.
2. Upload a zip file containing all of the files for this milestone to LearnJCU.

Marking

	Exemplary (3 marks)	Satisfactory (2 marks)	Marginal (1 mark)	Unsatisfactory (0 marks)
Mission Statement	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)	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)	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 page) 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

CP2010 Milestone 1 – Database Code – 10%
Due: Week 9, Thursday 23/04

This project milestone is to ensure that your group is on track with the development and is able to successfully create and interact with an SQLite database using PHP (through PDO) on your Web server (ditwebtsv/cns).
Implement the following functionality in a small, easily navigable site:

- Display a summary list of artists with images and simple details (not in a form)
- Display full details for a single artist, after clicking on the artist in the list described above
- A form for adding a new artist
- A form for updating an artist's details
- A way of deleting an artist

The sample code you have been provided with (phonerecords.zip) is a good starting point for this as it demonstrates all of these things, but use it intelligently, with understanding.
You do not need to integrate your milestone 1 with the CP1406 milestone 1 at this stage. You will see there are no marks here for design, HTML or CSS.

Submission
1. Upload your work to a folder called **db** in your group's space on ditwebtsv/cns, e.g. **http://ditwebcns.jcu.edu.au/~tcmc01/db**
2. Upload a zip file containing all of the files for this milestone to LearnJCU.

Marking

Criteria	Score	Out Of
SELECT and display list of artists – not in a form		2
SELECT and display artist content		2
INSERT new artist		2
UPDATE existing artist		2
DELETE existing artist		2
Total:		**10**

Milestone 2 – Finished Site – 25% / 30%
Due: Week 13, Friday 29/05

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

You need to upload your site to your group's folder on ditwebtsv/cns, and include a file called **report.html**, which must contain a brief (dot-point) description of:

- a link to the GitHub repo where you stored and collaborated on this project - this allows staff to view the progress 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 usernames, passwords, instructions if needed, outstanding issues
- references for any code 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 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, e.g.
   http://ditwebtsv.jcu.edu.au/~tcmc01
2. Upload a zip file containing all of the files for this milestone to LearnJCU.

Marking

	Exemplary	*Unsatisfactory*	Mark
Content & Information Design	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. Feeder page is appropriate. Content is goal-driven. Text has been (re)formatted to be suitable for page purposes and for this site's goals, images enhance meaning of text.	Content is incomplete and/or of a low standard, containing errors and not being suitable for the Web, audience or site goals. Feeder page is missing or inappropriate. Not goal-driven. Text appears just copied from client content or is poorly presented.	10
Interface Design & Information Architecture, including creating, editing, etc.	Design is professional, consistent, suitable for site goals and audience. Navigation is well presented. Content has been thoughtfully organised to be suitable for site goals, calls-to-action are clearly used. Good naming of pages/links. Processes are easy to follow due to good design. It is easy to locate all of the important elements. Controls and/or information provided are helpful to the user and it is always clear what the current state is and what the next step is.	Poor quality, not suitable for site goals and audience. Navigation is poorly presented. Content placement seems illogical. Poor naming of pages/links. Processes are hard to follow due to poor design. The controls and/or information provided are inappropriate or confusing. It is often difficult to locate important elements; or information is missing.	10
HTML & CSS, Technical Aspects	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.	10
Artists, including featured artist, categories, sorting	The functionality is completed as described in the requirements, to a high standard.	The functionality is not provided or is of a very low standard.	10
Events & Bulletins, including date control			10
User Registration			10
Access Control (3 types of users/functionality)			10
Total			**70**

CP2010 Milestone 3 – Presentation – 5%
Due: Week 13, Thursday 28/05 in Townsville, Friday 29/05 in Cairns

The final deliverable for the group website project is a presentation. CP2010 students in the group, you will give a 3-5 minute presentation of the finished product to your peers and staff, and do so as if to the website client. Demonstrate the site's design and functionality and highlight its good aspects. Explain what the goals of the site are, who the target audience is, and how the site has been designed and developed to meet the goals for the target audience.

Your presentation will be given using the usual lecture/practical computer and browser with the standard projection screen resolution (1024 * 768 pixels). You may not use any PowerPoint or other files. Your site needs to be demonstrated at its final submission location.

The CP2010 members of your team should plan, prepare and practise to work together well. Aim for a nicely organised presentation where each member speaks and there is a clear flow from introduction to conclusion. Plan what parts of the site you will demonstrate and how you will explain these to highlight the quality of your site. For demonstrating functionality like adding data to the site, use plausible ("real") data instead of gibberish, but be quick and efficient about it (e.g. if you have to log in, have an account ready with a very short username and password) so people don't have to wait for you.

Marking

	Exemplary (3 marks)	*Satisfactory (2 marks)*	*Marginal (1 mark)*	*Unsatisfactory (0 marks)*
Content	Coverage of topics is appropriate and well balanced. Demonstrations are effective and well planned. The presentation appears to have a clear audience and goal.	Coverage of topics is good. Demonstrations are not as seamless and well planned as they could be. Audience and goal could be clearer.	Coverage of topics is reasonable but not well balanced. Demonstrations are not good. Audience and goal could be clearer.	Important content is missed. Demonstrations are missing or messy. No clear audience and goal.
Structure	Students present information in a logical sequence which audience can follow. Strong introduction and conclusion.	Presentation sequence could be improved. Introduction and/or conclusion are evident but not as strong as they could be.	Presentation sequence makes it harder for audience has to follow than it should be. Introduction and/or conclusion are not strong.	Poor sequence of information means audience cannot understand presentation. Start and finish are weak.
Delivery Style	Students maintain eye contact with audience, seldom returning to notes. Students' voices are clear and they pronounce words correctly. Audience can hear presentation. Use of voice is dynamic and enhances meaning of presentation.	Students use some eye contact, but read some of presentation. Students' voices are not as clear and interesting as they could be.	Students use minimal eye contact, read much of presentation. Students' voices are low or unclear. Tone is not good.	Students read majority of presentation with little to no eye contact. Students mumble, incorrectly pronounce terms, and speak too quietly for people in the back of the class to hear. Tone is monotonous or uninteresting.
Group Work	Presentation is shared evenly, each person's part logically flows, contributing to one well-organised presentation.	Presentation could be shared more evenly, each person's part flows reasonably well.	Presentation is not shared evenly, each person's part is separate.	Not all members contribute and/or sharing is problematic.