

COMP1220 2019-20 Sem II Project 2
Creating an Interactive Website (15%)
Due Friday May 15, 2020 by 11:55pm

Build a website (using Weebly.com) on one of the major topics from the COMP1220 course, as listed on the OURVLE slides and the course outline.

This is a group project, and each person has responsibility for a specific aspect of the topic. Groups can be of size 2 to 6, provided that the topic merits the size and responsibility.

- Each group is to send a message to me on OURVLE stating the topic they want to do and a paragraph describing what they plan to put in the site, in order to get approval/comments and so that I have a list of who is doing what. Only a limited number of groups will be allowed to do the same topic so decide quickly – I need to hear by Tuesday April 29 11:59 pm.
- A site can consist of a topic, a set of subtopics of a topic, or a set of related topics.
- Each member must be responsible for a specific topic or subtopic, specific set of pages, or specific parts of pages. This will ensure that if one person does little or no work, the rest of the group can receive marks for their hard work.
- Each member of the group should use some of the content of their personal web page in the About Us page on the group website site to provide info on themselves (but change it as you see fit).
- This assignment will be graded for a total of 15%
 - Submit by emailing the Weebly link and list of group members names and id's to comp1220.uwi@gmail.com
 - No demo is required for this project

Objectives of the Assignment

- To learn to use modern state-of-the-art tools for building websites quickly
- To get basic first-hand experience with client-server systems
- To gain experience that can be applied to your profession (in Computing or any field) and to entrepreneurial ventures.
- To gain experience with designing, writing, and presentation of technical and socially responsible topics using modern media.

This project has two parts:

Designing a Personal Web Page (each team member submits one of these) - worth 2%

Designing the Website (one submission for the entire team) – worth 13%

Designing a Personal Web Page (each team member submits one of these) - worth 2%

First, read the posted Introduction to HTML chapter and try the examples in the chapter in the Try-it editor.

Next, create a web page that includes

- Your name
- Schools you attended
- Where you grew up
- goals after graduation

Don't include any personal information that you should not be broadcast on the internet, e.g. your birthdate, your UWI ID #, your address, telephone number, parents names, etc. Initially, only use the html, head, title, and body tags. Test it in the Try-it editor (http://www.w3schools.com/html/tryit.asp?filename=tryhtml_basic). But after that you should save your file using a text editor or code editor that allows you to edit and format the HTML more easily:

Save the file to your computer using notepad or vscode or wordpad or your favourite editor:

- If you are using Notepad, **Save** (or **Save As**), then use the *pulldown menu below the file name that says **Save as Type*** and choose **All Files** (*make sure you do this*), then give your file a name with the .html extension (e.g. mypage.html).
Note that if you don't choose **All Files**, and name your file (e.g. mypage.html), Notepad will actually save your file as mypage.html.txt, and then the browser won't open it properly as an html file.
- You can use a code editor that does nice things like automatic indentation/formatting of the HTML. For Windows, VSCODE works well and is simple. It is a free install from Microsoft at <https://code.visualstudio.com/> . Highly recommended.
To autoindent and reformat your HTML code (will also highlight tags in colour and highlight errors in colour), first **Select All**, then press **Ctrl-KF** (keep holding down the Ctrl then press K then F)
- If you are using WordPad, when you save, choose File, then **Save As**, then type the file name, e.g. MyPage.html
and choose Text in the '**Save as Type**' box (*make sure you do this*)

You should then be able to view the file in a web browser by simply double-clicking the file, or choosing File Open in the web browser.

Add the break, paragraph, and horizontal rule tags to your web page to help enhance its appearance.

Next, modify your web page to use all the elements mentioned in the chapter on HTML I posted, e.g.:

- links to three favorite websites (which provide useful information)
- Use alignment in paragraphs
- Add a table of a few of your favorite books
- Add an image on an external site (e.g. UWI image)

Finally, add a form to input an **email** address (if someone wants to send you their info), a **text area** for feedback on your page, and show a couple **checkboxes**, a set of radio buttons and a **drop-down menu**. These won't actually do anything if they are clicked in this assignment. Also:

- When the link for website is submitted, also attach a link to a folder on a google drive (or OneCloud drive etc) containing the html pages for each member.
- If you are including your own images/photos, they have to be in the folder you uploaded,
OR you can upload them to a site such as google drive and use the URL of the photo in your HTML file (try it!)

Designing the Website (one submission for the entire team) – worth 13%

- **Look at positive aspects/solutions as well as any negative aspects of the topic.**
- As a group, each of you should do a quick paper sketch of what you want the site to contain and look like. Then meet as a group and come up with a final plan to agree on what the site should contain and look like, and divide the work.
 - *This is how it works in the real world of web design, and it can be done in a day or two!*
- **Aim at good content design. See**
 - http://www.redish.net/images/stories/PDF/Redish_Maximus_7_10.pdf (important!)
 - Don't use long blocks of text, and don't just copy blocks of text from other websites.
 - Keep your terminology as simple and clear as possible.
- **layout, use of colours, etc.**
 - Examples of Good Design
 - Note their design style, layout style, use of fonts and colours.
 - News: <https://www.theguardian.com>
<https://www.democracynow.org/>
<http://www.bbc.com/>
<http://www.nytimes.com/>
 - Tourism: <http://www.islandoutpost.com>
 - ICT: <http://www.apple.com> (note how different parts of the site are designed)
- While you are planning the site, each member should be learning Weebly by watching the videos and trying to make a site without any content, but just to get familiar with adding various Weebly elements.

Learning and Using Weebly

- Sign up to join Weebly – **the free part** – and choose a name for your site, e.g. **eWasteComp1220uwi.weebly.com**
 - The site name must have **Comp1220uwi.weebly.com** as part of the URL
- A good overview of Weebly (good overview video and article, you don't have to read the whole article) is at <https://www.websitetooltester.com/en/reviews/weebly-review/>
- Watch the basic Weebly Videos (intro, getting started,) and consult the other videos as needed at <https://www.youtube.com/playlist?list=PL7zsP07K6dN3Ae0GO0gS7jl4H1zxfJ512>
 - The **Support/help** section has step-by-step instructions on using each feature. Also see the official weebly tutorial videos
 - look at the videos before you start exploring and experimenting – it will save you time
- I suggest that when you are working on your site, you have
 - one browser window open so you can look up instructions and
 - another browser window open in which you are creating/editing the site.
 - A third browser window open in which you are display the published site every time you need to see what it looks like so far
- If you are part of a group, the person who starts the site must add the other group members as **Editors**.
 - This allows everyone to work on the site at the same time from different computers.
- Note that after you click **Publish** in Weebly, a dialog box that says **Website published** will be displayed. *You should click on the link/URL of your website that says **yourWebSiteName.weebly.com**, then close the dialog box.*
 - **Ignore** the message that says yourWebsiteName.com is also available –
 - They will try to get you to buy a domain name from them, and you buy a domain name elsewhere for much less – from about US\$12 per year up.
 - *Also, you can get a free .jm domain from MITS (e.g. mycompany.com.jm).*

What Elements of Weebly Should be Used?

- *Only use the free parts/features of Weebly (unless you have US\$ to spend...).*
- When you are editing (building) your Weebly website, you will see that the elements/widgets you can add are divided into free features and upgrade (paid features – marked with a lightening bolt))
- You can use any of the free elements
- Divide the site into pages, where each page covers a sub-category. The pages will appear in the menu.
- Include diagrams or photos if relevant to your subject
- Include a link to a relevant video
 - If you use a youtube video from the class notes, also find another relevant youtube video
 - You can also make a locally relevant video with a cell phone and upload it, but this is not required.
- Add a **contact** form
 - Test it with a real-looking entry to see that it works
- Add a **blog**
 - Test it by making a real-looking thread/comment
- List the names (with photo or icon) of each team member and their contribution to the group project under an About or Team or Developers page on your weebly site. Don't include all the extras from your personal web page, especially information that you don't want the whole world to see on the Internet.

List of Website Topics (you may also propose a topic)

- History of computing
 - Underrepresented Pioneers of computing.
 - Contributions of Caribbean region and of other developing countries.
- Social implications of computing and networked communication and social media in general and on youth, particularly of this region and other developing countries.
- Effect of social media on elections/politics
- Effect of social media on conflicts (ethnic, religious, between countries, racism, etc)
- The social and cultural context of design.
 - Potential of using ICT for dissemination and marketing of positive cultural output of this region
- Computing and education
- Analysis of the government and business policies of developing and developed countries with successful computing industries.
- Entrepreneurship in ICT and use of ICT for Entrepreneurship
 - in particular for our region and on developing countries
- Public safety issues, e.g.
 - cybercrime, privacy, stalking, etc
- Intellectual property and ICT, including concerns of our region and developing countries
- Growth, access and control of the Internet
- Environmental Issues and Computing, e.g.
 - E-waste
 - Green computing
- Professional ethics in computing, including
 - Making and evaluating ethical choices in designing and implementing ICT for physical safety, design for safety of personal information from cybercrime, cyberstalkers, etc
- Safety and Health Issues and ICT
 - Ergonomics
 - Cellphone Radiation, wireless/5G
 - Computers embedded in cars, planes, ships, etc
 - Computers in electric, hybrid cars, planes, ships
 - Autonomous/Robotic cars, trucks, buses, planes, etc
 - Addiction - Internet Addiction, Social Media Addiction, Game Addiction
- Software design and Implications of software complexity and the limits of computing
 - software risks and its implications, globally and for our region and on developing countries
 - implications for business practices and government policies, laws and regulations
 - best practices for software design and testing to minimise software risks, particularly for small businesses, developing countries
- Future of Computing
 - its implications, globally and in particular for our region and on developing countries.
 - How computing relates to the United Nations Sustainable Development Goals (SDG's)