**FINAL ASSESSMENT COVER PAGE**

| TERM | COURSE NAME | COURSE CODE | VERSION |
| --- | --- | --- | --- |
| 2nd | Web Programming Principles | 222 | Final |

| Name | Param Singh Virdi |
| --- | --- |
| Student Number | 164073215 |
| Section | NRA |

DATE: \_\_\_\_\_\_\_\_\_\_\_

TIME ALLOWED: \_\_\_\_\_\_\_\_\_\_\_

PERCENTAGE: \_20%\_\_\_\_\_\_\_\_\_\_

TOTAL MARKS: \_100\_\_\_\_\_\_\_\_\_\_

PROFESSOR(S): \_\_Blessing Ajiboye\_\_\_\_\_\_\_\_\_

SPECIAL INSTRUCTIONS *(example)*:

1. A reference sheet is permitted [or NOT permitted] and must be submitted with the exam [and any other info about the reference sheet]
2. Write your answers in the spaces provided [or in one or more exam booklets]
3. Other special instructions [if necessary]

This exam includes a *cover page*, plus \_\_*X\_\_ (X)* pages of questions.

| SENECA’S ACADEMIC INTEGRITY POLICY |
| --- |
| As a Seneca student, you must conduct yourself in an honest and trustworthy manner in all aspects of your academic career. A dishonest attempt to obtain an academic advantage is considered an offense, and will not be tolerated by the College. |

APPROVED BY:

Kathy Dumanski, Chair, SDDS

Overview

The WEB222 final assessment is equivalent to a final exam but can be done remotely and submitted online.

The assessment has three parts and builds on your knowledge from the course to create websites. Specifically, you will be asked to do the following:

1. Create a real estate website for a local real estate agent consisting of at least 7 pages. (worth 10%)
2. Research and Implement a Static Hosting solution for your final assignment, so it can be viewed online (worth 5%)
3. Create a Reflection Video Walk-Through about the work you did in steps 1 & 2 and upload it to YouTube (worth 5%)

Submission

All 3 parts of your final assessment are due by **Friday August 11th by 11:59pm**. In your submission to Blackboard, please include:

* A .zip file of your complete web site code (part 1)
* A link to your publicly hosted web site (part 2)
* A link to your private YouTube video (part 3). NOTE: make sure you publish the video **unlisted/private**, so only the people who have the link can view the video

You **may** consult your notes, class recordings, and use the web, but you **may not** discuss any part of this final assessment with other students. All work must be your own. You may not collaborate or copy material from other sources or students.

You **may not** use existing web sites. All HTML, CSS, and JavaScript must be your own work.

Honesty Statement:

*I declare that my assessment is wholly my own work in accordance with Seneca Academic Policy. No part of this assessment has been copied manually or electronically from any other source (including web sites) except for the information supplied by the WEB222 instructors and / or made available in this assessment for my use. I also declare that no part of this assignment has been distributed to other students.*

Part 1. Website Design (10%)

For the purpose of this ***individual term project*** you will assume that a local real estate agent has contracted you to develop his public website consisting of at least 7 **pages**:

1. ***Home Page*** - Shows the agent’s own picture and other information that reflects his professional profile (mission statement, feedback from former customers, etc.) Also inside a video to show case previous property listed by the agent(**1 page**)
2. ***3 Property Listing Pages***– Describe in detail his current listings. He wants a separate HTML document for each individual property showing pictures of the property and additional information (price, address, lot size, number and type of rooms, etc.) (3 **pages**).
3. ***Available Properties for sale Page*** - He also wants a web page showing all the properties as thumbnail pictures, with a brief description of the property, price information and a hyperlink to the detailed page (as per item 2. described above) for each property (**1 page**).
4. ***Contact Form*** - An HTML page containing a form that can be completed by the visitor with his own preferences for the type of property he is interested in. The form should contain fields for the visitor’s first name, last name, phone, email, type of property (house or condominium), number of bedrooms, number of bathrooms, price range, and an additional comments text area. The information on the form is submitted by email to the agents’ email address. You will be required to validate your form. Create a JavaScript function to activate an event on the submit button to display an alert window Registered Successfully (**1 page**).
5. ***Site Map and Credits Page*** – An HTML page containing a sitemap (a list of links to all the pages in the agent’s website) and a list of websites that have been used for graphics and properties information (**1 page**).

The design of the website should be airy and optimistic, using light neutral colors and easy to read fonts.

The general page layout has to be the same for all the pages in the website.

All the styling for fonts, colors, and hyperlinks has to be done with a ***CSS style sheet, CSS Grid Layout, flexbox layout that is attached to each page in the website***.

All CSS and JavaScript should be put in separate .css or .js files (i.e., not embedded in the HTML), and use proper indentation, formatting, and include appropriate comments.

All the pages have to share a ***common look and feel***, achieved through consistent placement of graphics and navigation and through sharing of a common color scheme.

Special attention should be given to the ***proper use of whitespace*** in order to create an airy and optimistic design (use a light color scheme and make sure pictures are not touching the text on the pages).

Collect yourself all the required information, graphics and pictures by researching free resources on the Web. (Mention credits for graphics and property info on the ***Credits Page***).

Part 2. Static Hosting (5%)

You are asked to research and implement a static hosting solution for your web site, so that it is accessible via a public URL. You do not need to spend any money to achieve this, since many free hosting services exist:

1. Netlify - <https://www.netlify.com/>
2. Vercel - <https://vercel.com/>

Please submit the public URL for your project. All pages, images, etc. must work and not return 404s or other errors.

Part 3. Reflection Video (5%)

You are asked to create a Reflection video that is 5 minutes or less in length and upload it as a private video to YouTube (i.e., only the people you share the URL with will be able to see it).

Your video should include audio of you talking and a screen-capture or screenshots of all the elements you discuss (i.e., you don’t have to be on camera if you aren’t comfortable doing so, it’s up to you). Use the video to give a walk-through of your website and the technologies you used.

In your reflection, please discuss and demo all of the following:

* Give a tour of your website, discussing all areas.
* Discuss the techniques, technologies, and patterns you used?
* Which other web sites did you use as inspiration and why?
* Demonstrate and explain how you made your web site responsive, so that it works well on both phone and desktop browsers. Show how your website adjusts to window sizes less than, and more than, 400 px.
* Explain some of the main features of HTML Forms and Input elements you used to help make sure the user’s input was valid for your forms, and to keep them from submitting mistakes.
* How did you test that your responsive design and web form were both working, and did this testing find any bugs in your implementation? How did you address these?
* What advice would you give to other web developers building forms for their pages based on your own experience? What lessons did you learn?