

Course: (WEB322) -Web Programming Tools and Frameworks	Assignment 1 of 6	Contribution:9% of course
Instructor: Haytham Qushtom	Date Given: Sep 19, 2021	Date Due: Sep 26, 2021

Notes for the Student: This Assignment is one of six that is designed to give you practical experience in building Dynamic websites and Server-Side Web applications using Node.js and Express.

Background: You will need to have access to a code editor. You will also need a thorough understanding of HTML 5, CSS3, JavaScript, “Node.JS”, Express.

Assignment Submission Requirements

- An electronic copy of your work (both the web application and the link to your website under Heroko) should be uploaded to the Blackboard by midnight on the deadline date.
- This Assignment WILL NOT BE ACCEPTED VIA EMAIL.

Assignment Regulations

- This assignment must be done individually.
- Please review Seneca’s policies on Academic Integrity, specifically:

“Each student should be aware of the College's policy regarding Cheating and Plagiarism. Seneca's Academic Policy will be strictly enforced. To support academic honesty at Seneca College, all work submitted by students may be reviewed for authenticity and originality, utilizing software tools and third party services. Please visit the Academic Honesty site on <http://library.senecacollege.ca> for further information regarding cheating and plagiarism policies and procedures. .” Thus, ensure that your code or any part of it is not duplicated by another student(s). This will result in a percentage of zero (0%) assigned to all parties involved.

Technical Requirements

- All back-end functionality **MUST** be done using **Node JS and Express**.
- Your website pages **MUST** be created using **HTML and CSS**
- Your website must be designed by using s Bootstrap as a CSS framework to make your website responsive and aesthetically pleasing
- You are not allowed to use any other Front-End CSS or JavaScript Frameworks

Detailed App Specification

Web Hosting Canada (WHC) (<https://whc.ca/>) has consistently been ranked the #1 Canadian domain name provider by the .CA registry. You have been contracted as a Full Stack developer to develop your version of the Web Hosting Canada website.

Your website does not have to look the same as theirs but you should rather use their website (or similar websites) to inspire the look and feel for your implementation.

The implementation of the entire functionality for the website will be spanned over 5 Assignments.

In this assignment, you will **ONLY** focus on building views for your website/web application. **No database connectivity is required for Assignment 2.**

REMINDER:

All back-end functionality **MUST** be done using **Node JS and Express**.

Your views **MUST** be created with **HTML**

Your project must be uploaded to Heroku and provide the like.

Specifically, you are **ONLY** required to implement the following:

Features

Express web server set up

Create an Express web server that listens to incoming HTTP requests.

Route Handlers Implementation

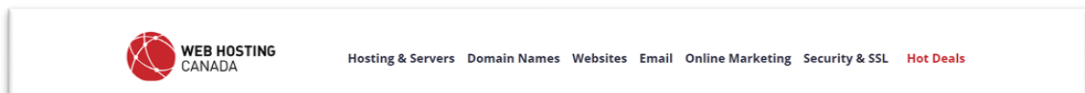
Ensure that you create route handlers that will direct users to specific views (Static Content) when they navigate to the following routes:

- Home Page ([home.html](#))
- Canadian Web Hosting Page ([cwh.html](#))
- Create an Account Page ([registration.html](#))
- Sign in to WHC Page ([login.html](#))

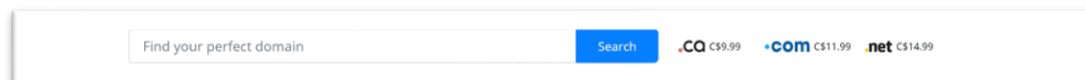
Home Page

You are required to build a **well designed** home page that can be access through this “/home” route. This page consists of the following sections:

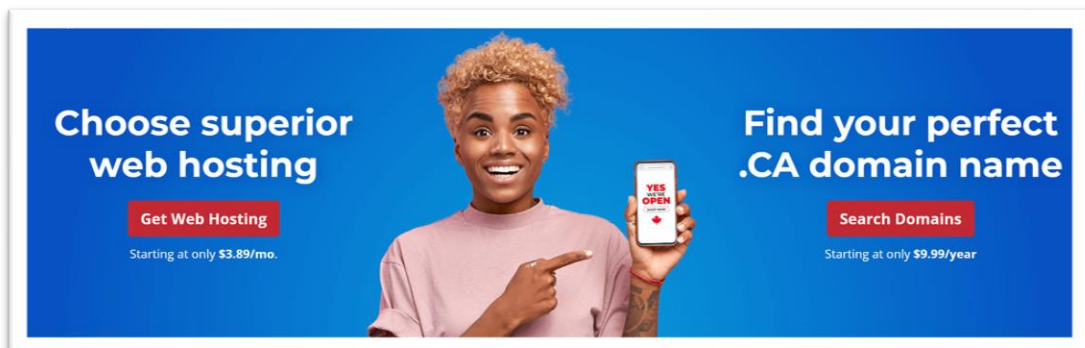
1. **Header** - The header **MUST** contain the logo of your website and could contain the navigation bar and any other content you deem necessary.
2. **A Navigation bar** - The navigation bar can be within the header or defined as an entirely new area. It **MUST** have links that navigate visitors to a sign-up page and the login page.



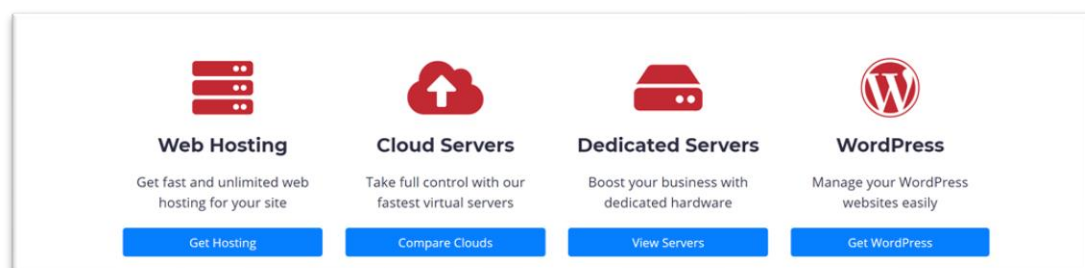
3. **A Search section** – placed below the header and navigation section.



4. **A Hero Section**- The section must have a prominent image or video element that is placed at the top of your pages, below the Search section. Example:



5. **Content Section(s)** - The sections **MUST** use a combination of grids, words, headings and images with the sole purpose of highlighting some selling features of the website. See the below example:



6. **Footer** - This section **must** include footer menu items, social media links, and any other information you deem necessary.

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[Web Hosting Plans page](#)

You are required to build a **well designed** Web Hosting Plans page that can be access through this “/plans” route. This page must have at least three (3) plans, as shown in figure below. Please note, for this Assignment, Assignment 1, the data for this section must be static, i.e, it will not be pulled from a database. However, you are required to define the data in the html page. Each plan must display an image/icon, title, price, and details.

The screenshot displays the 'Canadian Web Hosting' website. The header includes the logo 'WEB HOSTING CANADA' and a navigation menu with links: 'Hosting & Servers', 'Domain Names', 'Websites', 'Email', 'Online Marketing', 'Security & SSL', and 'Hot Deals'. The hero section features the title 'Canadian Web Hosting' and the subtitle 'Your Website's Perfect Home', followed by a description: 'Get your new project online today on one of Canada's fastest, most reliable, and most secure web hosting platforms.' and a 'Compare Web Hosting Plans' button. Below the hero section, three hosting plans are presented in a grid:

- Starter**: Affordable plan, great for personal projects. As low as **C\$3.89/mo** (SAVE 57% from C\$8.99). Features include: STARTER Performance, Single Website, Unlimited Space & Traffic, Powered by renewable energy, All-Inclusive STARTER Email, Standard Hosting Features, and Free Site Migration.
- Pro**: Pro performance, premium features, free domain², and more! As low as **C\$3.92/mo** (SAVE 67% from C\$11.99). Features include: PRO Performance, Unlimited Websites, Unlimited Space & Traffic, Powered by renewable energy, All-Inclusive PRO Email, Standard Hosting Features, Free Site Migration, Free Domain², Optimized for WordPress, Premium Features, Email Marketing (500 contacts), and SSL Certificate.
- Enterprise**: Best performance for demanding websites, with SSL & dedicated IP³. As low as **C\$11.89/mo** (SAVE 43% from C\$20.99). Features include: ENTERPRISE Performance, Unlimited Websites, Unlimited Space & Traffic, Powered by renewable energy, All-Inclusive ENTERPRISE Email, Standard Hosting Features, Free Site Migration, Free Domain², Optimized for WordPress, Premium Features, Email Marketing (1000 contacts), SSL Certificate, and Dedicated IP³.

Note: This view must also have a header, navigation, hero section, and footer like the home page.

Registration Page

You are required to build a **well designed** user registration form as shown in figure below in a html page that can be access through this “/registration” route.

The registration form is titled "Create an Account" and features a red circular logo with a white network pattern at the top center. The form is divided into three main sections: "Personal Information", "Billing Address", and "Account Security".

Personal Information

- First Name (text input)
- Last Name (text input)
- Email Address (text input)
- Phone Number (text input)

Billing Address

- Company Name (Optional) (text input)
- Street Address (text input)
- Street Address 2 (text input)
- City (text input)
- Country (dropdown menu, currently showing "Canada")
- Postcode (text input)
- Tax ID (Optional) (text input)

Account Security

- Password (text input)
- Confirm Password (text input)

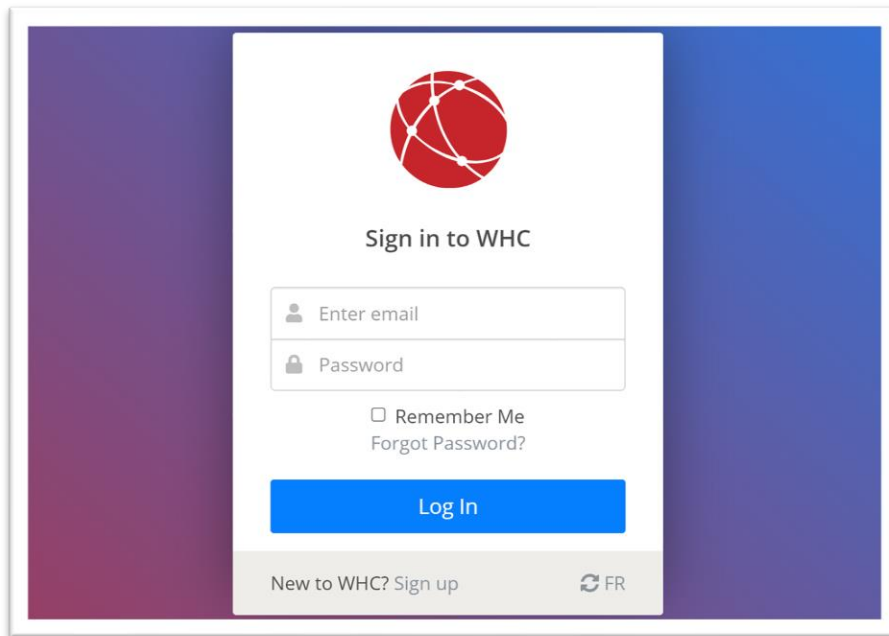
Below the password fields, there is a "Password Strength" indicator and a "Terms of Service" section. The Terms of Service section includes a checkbox and the following text: "By submitting this order, you agree to the Terms of Service and Privacy Policy. You agree that WHC will automatically attempt to renew your services prior to their next due date unless you request otherwise from your Client Area."

A large blue "Register" button is located at the bottom of the form.

At the bottom of the page, there is a link "Already a client? Log in" and a small "FR" icon.

Login Page

You are required to build a **well designed** login form as shown in figure below in a html page that can be access through this “/login” route.



Rubric

Criteria	Not 0	Partially 1.5	Fully 2.5
Home page <ul style="list-style-type: none"> Header Navigation Search section Hero Section Content Section Footer Section 			
Web Hosting Plans page <ul style="list-style-type: none"> Header Navigation Hero Section Plan Packages Listing in a grid Each plan package lists set of features Footer Section 			
Registration /Login pages <ul style="list-style-type: none"> Registration form 			

<ul style="list-style-type: none"> • Login form 			
<p>Overall look and feel</p> <ul style="list-style-type: none"> • Overall site is polished • Used pleasing typography, colour palettes, and imagery • Colour and layout are cohesive throughout the site • Appropriate use of grids 	Poor (0)	Average (0.5)	Exceeds (1.5)