

Course: (WEB322) -Web Programming Tools and Frameworks	Assignment 2 of 6	Contribution:9% of course
Instructor: Haytham Qushtom	Date Given:	Date Due:

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 source code of the web application and the link to your website under Cyclic) 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 like React.

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

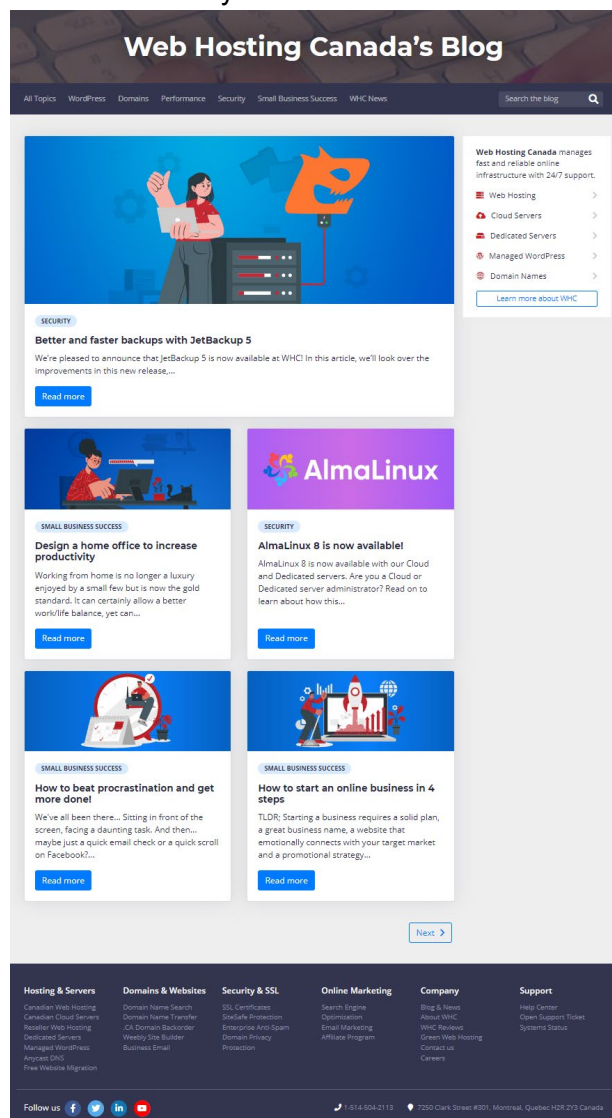
Ensure that you create route handlers that will direct users to specific views (Static Content) when they navigate to the following routes:

- Blog Page ([blog.html](#))
- Article Page ([read_more.html](#))
- Create an Account Page ([registration.html](#))
- Sign in to WHC Page ([login.html](#))

Blog Page (<https://whc.ca/blog/en>)

You are required to build a **well designed** Blog page that can be access through this “/Blog” 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 below the header and navigation section.
4. **Content Section(s)** - The sections **MUST** use a combination of grids, words, headings and images with the sole purpose of listing set of **articles**.
5. **Footer** - This section **must** include footer menu items, social media links, and any other information you deem necessary.



[Article page \(https://whc.ca/blog/almalinux-8-is-now-available/\)](https://whc.ca/blog/almalinux-8-is-now-available/)

You are required to build a **well designed** page that view the entire article, which can be access through this “/article/:id” route. This page must have at least three (3) parts (the article image, the title, the content, and the comment form, as shown in figure below.

Please note, for this Assignment, Assignment 2, the data for this section must be static, i.e, it will not be pulled from a database.

The screenshot shows a blog article on the Web Hosting Canada website. The article title is "AlmaLinux 8 is now available!" by Tim Roberts, dated August 25, 2022, under the "Security" category. The article content discusses the availability of AlmaLinux 8 on Cloud and Dedicated servers, its status as an enterprise-grade OS, and its benefits over CentOS. A "Leave a Reply" form is at the bottom, including fields for Name, Email, and a Comment box, with a "Post Comment" button. The website header includes navigation links for Hosting & Servers, Domains, Websites & Email, Marketing & SEO, and Security & SSL. A sidebar on the right lists services like Web Hosting, Cloud Servers, and Dedicated Servers, along with a "FAST WEB HOSTING" banner.

WEB HOSTING CANADA

Hosting & Servers Domains Websites & Email Marketing & SEO Security & SSL

All Topics WordPress Domains Performance Security Small Business Success WHC News Search the blog

AlmaLinux

AlmaLinux 8 is now available!

Tim Roberts August 25, 2022 Security Share this article

AlmaLinux 8 is now available with our [Cloud](#) and [Dedicated](#) servers.

Are you a Cloud or Dedicated server administrator? Read on to learn about how this affects you.

What is AlmaLinux 8?

AlmaLinux 8 is an enterprise-grade operating system (OS), like CentOS, that provides a powerful platform for your servers to deliver websites and email. It was developed in response to the announcement that CentOS 8 support has reached 'end of life'. This means essential security updates will soon no longer be available for this OS.

How do I get it?

If you activate a new Cloud or Dedicated server, you will now have the option to have AlmaLinux 8 pre-installed as your OS.

Why choose AlmaLinux 8?

Here are some of the notable benefits you'll get with AlmaLinux 8:

- **Built for enterprise:** It's an enterprise-grade OS that is more than capable of handling substantial server workloads.
- **Long support windows:** Support for AlmaLinux 8 has been committed to until at least 2029, including thoroughly tested updates and security patches.
- **Easy to switch over:** AlmaLinux is a 1:1 binary replacement for Red Hat Enterprise Linux (RHEL). This makes switching from the same versions of CentOS to AlmaLinux a breeze, requiring minimum effort.
- **Full cPanel Support:** Having partnered with AlmaLinux from the beginning, you can expect the same high level of support from cPanel & WHM as provided for CentOS.

If you have a Cloud or Dedicated server and are running CentOS 7 (or earlier versions), you should consider upgrading to AlmaLinux 8 or CloudLinux by summer of 2024, as June 30, 2024, is end-of-life (EOL) for CentOS 7.

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About the author: Tim Roberts
Tim is WHC's Technical Writer & Integrator. When he's not writing user guides or filming tutorials, you'll likely find him building websites or enjoying the great outdoors.
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Leave a Reply
Your email address will not be published. Required fields are marked *

Comment *

Please note that replies containing links will not be published.

Name *

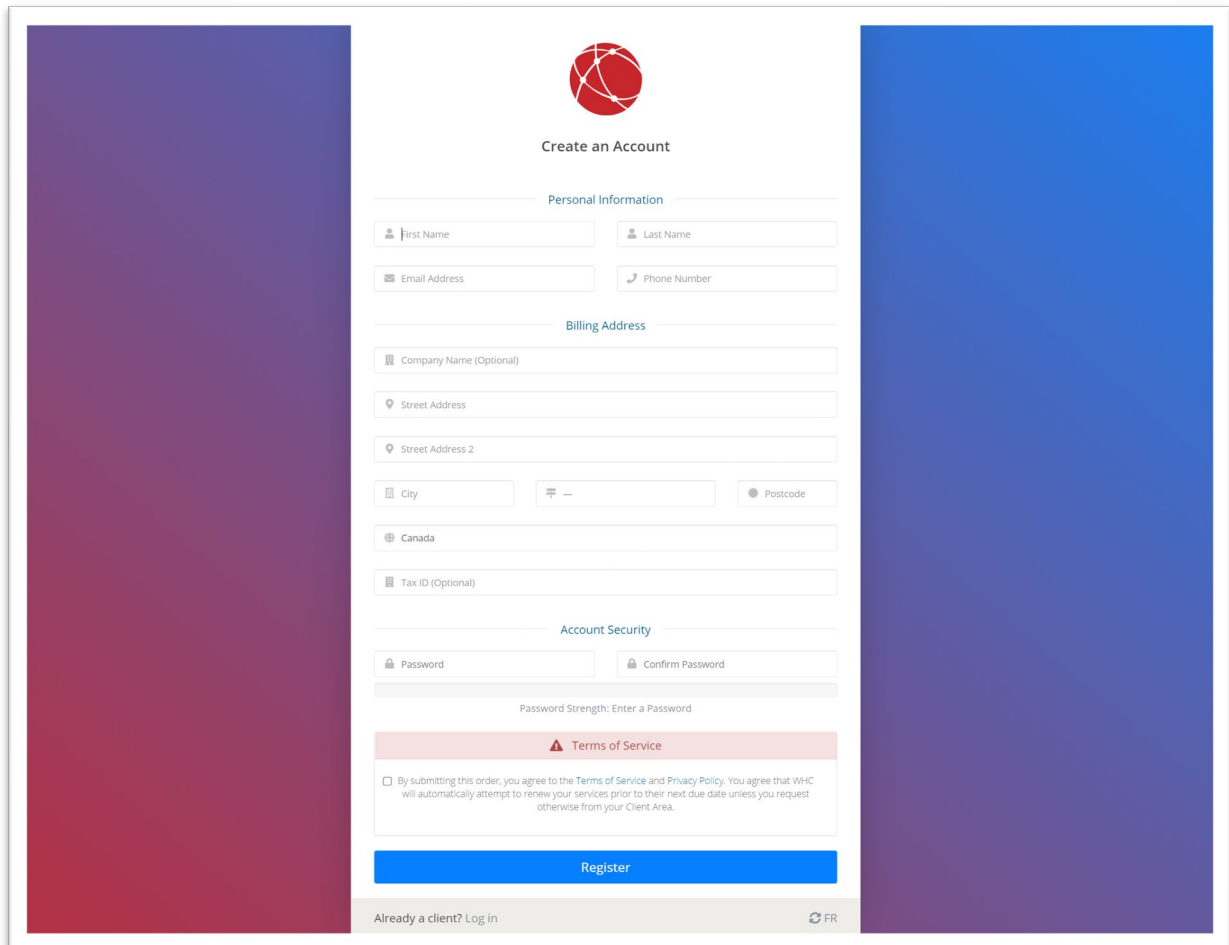
Email *

Post Comment

Note: This view must also have a header, navigation, hero section, and footer like the Blog 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 globe logo at the top. It is divided into three main sections: Personal Information, Billing Address, and Account Security. The Personal Information section includes fields for First Name, Last Name, Email Address, and Phone Number. The Billing Address section includes fields for Company Name (Optional), Street Address, Street Address 2, City, Country (set to Canada), and Postcode. The Account Security section includes fields for Password and Confirm Password, with a password strength indicator below. A Terms of Service section with a checkbox and a "Register" button are at the bottom. The footer includes a link to "Log in" for existing clients and a language selector for French (FR).

Create an Account

Personal Information

First Name Last Name

Email Address Phone Number

Billing Address

Company Name (Optional)

Street Address

Street Address 2

City Country Postcode

Canada

Tax ID (Optional)

Account Security

Password Confirm Password

Password Strength: Enter a Password

Terms of Service

☐ 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.

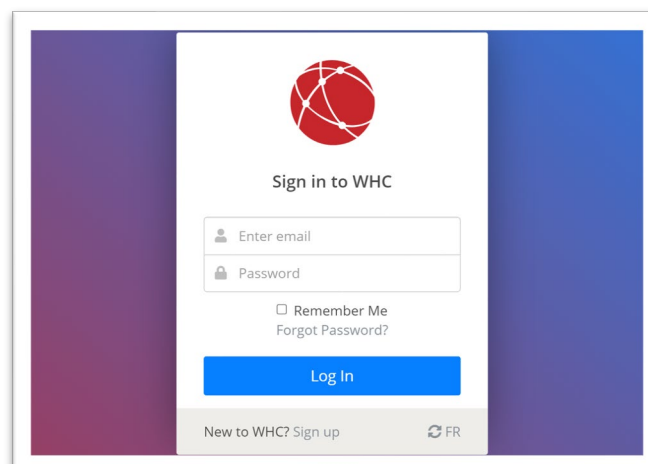
Register

Already a client? Log in

FR

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.



The login form is titled "Sign in to WHC" and features a red globe logo at the top. It includes fields for "Enter email" and "Password". Below these fields are checkboxes for "Remember Me" and a link for "Forgot Password?". A "Log In" button is at the bottom. The footer includes a link to "Sign up" for new users and a language selector for French (FR).

Sign in to WHC

Enter email

Password

☐ Remember Me

[Forgot Password?](#)

Log In

New to WHC? Sign up

FR

Rubric

Criteria	Not 0	Partially 1.5	Fully 2.5
Blog page <ul style="list-style-type: none"> • Header • Navigation • Search section • Hero Section • Content Section • Footer Section 			
Article page <ul style="list-style-type: none"> • Header • Navigation • Hero Section • Article details • Footer Section 			
Registration /Login pages <ul style="list-style-type: none"> • Registration form • Login form 			
Overall look and feel <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)