

Seneca

WEB322 – Web Programming Tools and Frameworks

Professor: George Kougoumtzoglou

Assignment 1 of 5

Total Weight: 10%

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

Background: You will need to have access to an IDE or good text editor. You will also need a thorough understanding of HTML 5, CSS3, Vanilla JavaScript, Node JS, Express and the Handlebars templating engine.

Assignment Submission Requirements

- An electronic copy of your work (both the web application and a written report) should be uploaded to the Blackboard by midnight on the deadline date.
- **This Assignment WILL NOT BE ACCEPTED VIA EMAIL.**
- The written report must be in pdf format and must contain the following: -
 - A cover page.
 - A table of contents.
 - Screenshots of your website, with relevant descriptions, detailing whether the functionality was met or not met, as specified below.

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 views **MUST** be created with **Express-Handlebars**

Detailed App Specification

AirB&B is a travel website that allows people to book rooms around the world. You have been contracted as a Full Stack developer to emulate the AirB&B website.

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

In this assignment, you will **ONLY** focus on building the views for your website/web application. **No database connectivity is required for Assignment 1.**

REMINDER:
All back-end functionality **MUST** be done using **Node JS and Express**.
Your views **MUST** be created with **Express-Handlebars**

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

Features

[Express Web Server Set up](#)

[Set up of Routes and implementation of route handlers](#)

[Creation of the following views :](#)

- [Home Page](#)
- [Room Listing Page](#)
- [Registration Page](#)

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 when they navigate to the following routes:

- Home
- Room Listing
- User Registration

Home Page

You are required to build a **well-designed** home page that consists of the following sections:

- **Header** - The header **MUST** contain the logo of your Airbnb's website and could contain the navigation bar and any other content you deem necessary.
- **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. Please note, **instead of creating a separate page for the sign up page, you can render it as modal pop-up boxes**. Check : <https://www.airbnb.ca/> for example and inspiration.
- **A booking search form**- The form can be placed anywhere you deem aesthetically pleasing, the top area of the web page may be the most favorable. The form should be designed similarly to the **Figure 1.1** and should capture the following data from the user :
 - City in Canada where the user wants to book a room. This should be a drop-down list of at least four (4) cities/provinces in Canada
 - Check-in Date
 - Check-out Date
 - No of guests

Seneca

Figure 1.1

Book unique places to stay and things to do.

WHERE

Anywhere

CHECK-IN CHECKOUT

Thu, 19th Sep Sat, 21st Sep

GUESTS

1 guest

Search

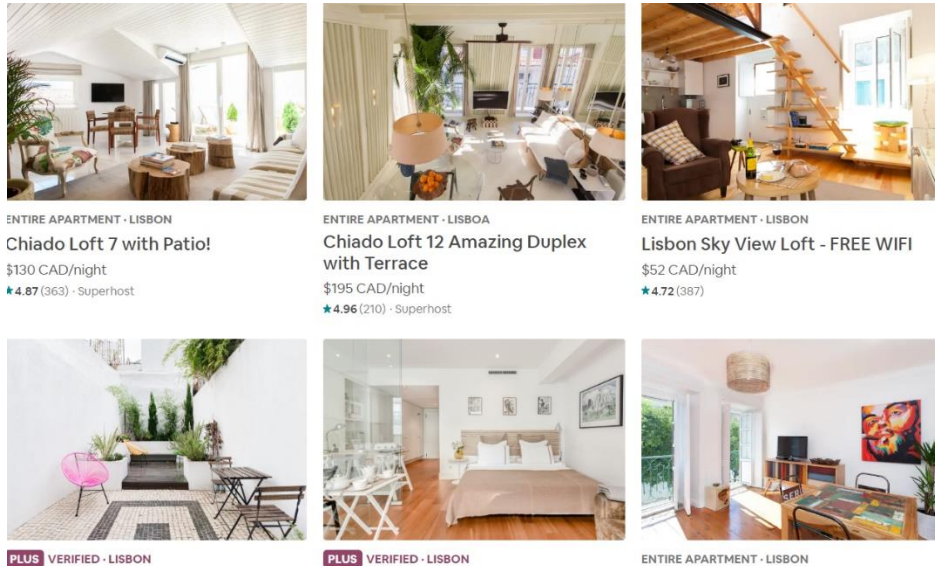
- Promotional Section - This section should present a banner depicting a promotion for your website.
- Informational Section- For this section you **must** provide content, images and a video explaining why “**Airbnb**” is to the visitors/customers.
- Footer - This section must include footer menu items, social media links, and any other information you deem necessary.

Room Listing page

You are required to build a **well-designed** room listing page that lists **6 sample rooms** in a **3 X 2 grid**, as shown in the below Figure 1.2 :

Figure 1.2

Seneca




Note, every room must have an image, title, and price rate per night. This view must also have a header, navigation and footer like the home page.

Registration Page

You are required to build a **well-designed** user registration form as shown in **Figure1.3**. This can be implemented as an entirely new page or as a pop-up modal. In the event you implement this as a new page then you must ensure that the page maintains consistency regarding its structure, header, nav, footer, etc. as the home page.


Figure 1.3


Seneca





Sign up with [Facebook](#) or [Google](#)

or












Birthday
To sign up, you need to be at least 18. Other people who use Airbnb won't see your birthday.

Month 

Day 

Year 

We'll send you marketing promotions, special offers, inspiration, and policy updates via email.

Sign up

Login Form

You must add a login form to your website. The login form must contain fields that will allow a user to enter their username and password. You can choose how you want this to be rendered and implemented on your website. You can implement it as a modal or within an area on your home page or on an entirely separate page.

REMINDER:

All back-end functionality **MUST** be done using **Node JS and Express**.
Your views **MUST** be created with **Express-Handlebars**

Seneca

Rubric

Criteria	Not Implemented 0	Partially Implemented 1	Fully Implemented 2
Home View (25%) <ul style="list-style-type: none">• Header• Navigation• Booking search form• Promotional Section• Informational Section• Footer	Not included	Included but not functionally or visually acceptable.	Included. Visually and functionally acceptable.
Room Listing View (25%) <ul style="list-style-type: none">• Header• Navigation• Room Listing Area• Footer	Not included	Included but not functionally or visually acceptable.	Included. Visually and functionally acceptable.
Registration View or Popup (25%) <ul style="list-style-type: none">• Registration form• Login form	Not included	Included but not functionally or visually acceptable.	Included. Visually and functionally acceptable.

Seneca

Overall look and feel (25%)	Poor	Average	Exceeds
<ul style="list-style-type: none">• Overall site is polished• Used pleasing typography, color palettes, and imagery• Color and layout are cohesive throughout the site• Appropriate use of grids			

Total : 100 MARKS

THE END