Assignment – 1

Refactoring of HTML/CSS/Accessibility

1. In some of the pages the header tags like h2,h3 are used without h1.

A screen shot of a computer program

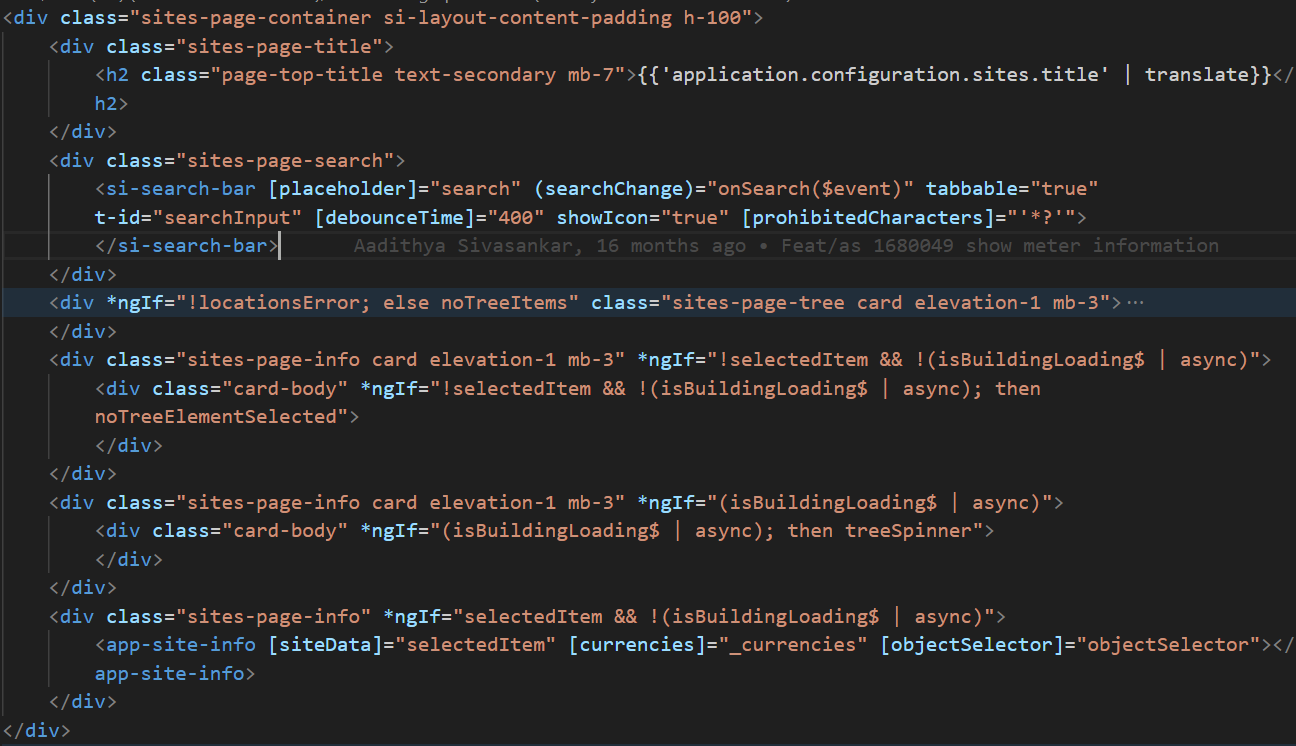
Description automatically generated

This can be refactored by changing the h2 🡪 h1 and h3 🡪 h2 as follows.

A screen shot of a computer program

Description automatically generated

1. In order to clearly indicate the role of the content the HTML contain, we should use more semantic HTML tags like <header>,<article>,<footer> etc. Below is the screenshot of a page where the semantic HTML tags are not used adequately.



The above screen is the HTML code for the below page

A screenshot of a computer

Description automatically generated

So, the HTML code for this page can be refactored as below. We can use,

* <section> tag for the whole content
* <header> tag for the title
* <nav> tag for the search part
* <aside> tag for the card with tree structure on the left
* <main> tag for the card with building details

A screen shot of a computer screen

Description automatically generated

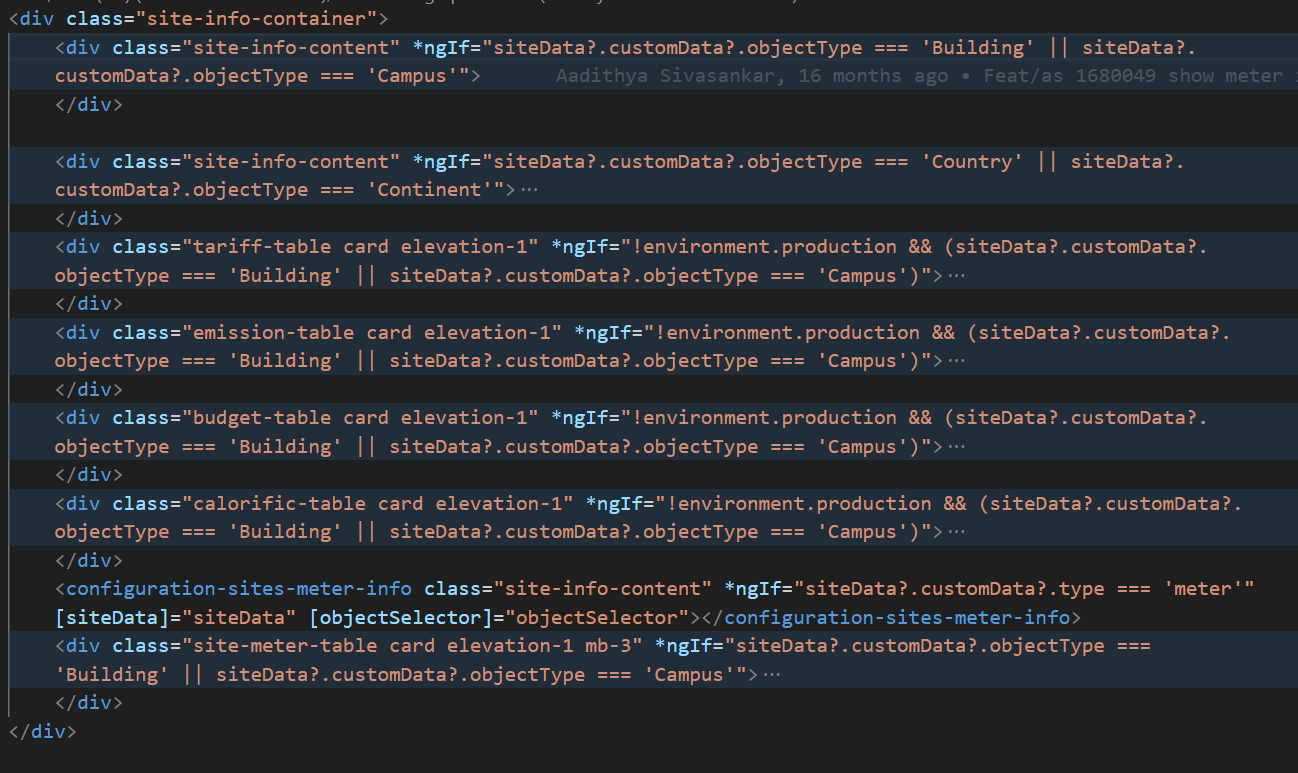
1. As a part of improving the semantics, the below page can also be refactored

A screenshot of a computer

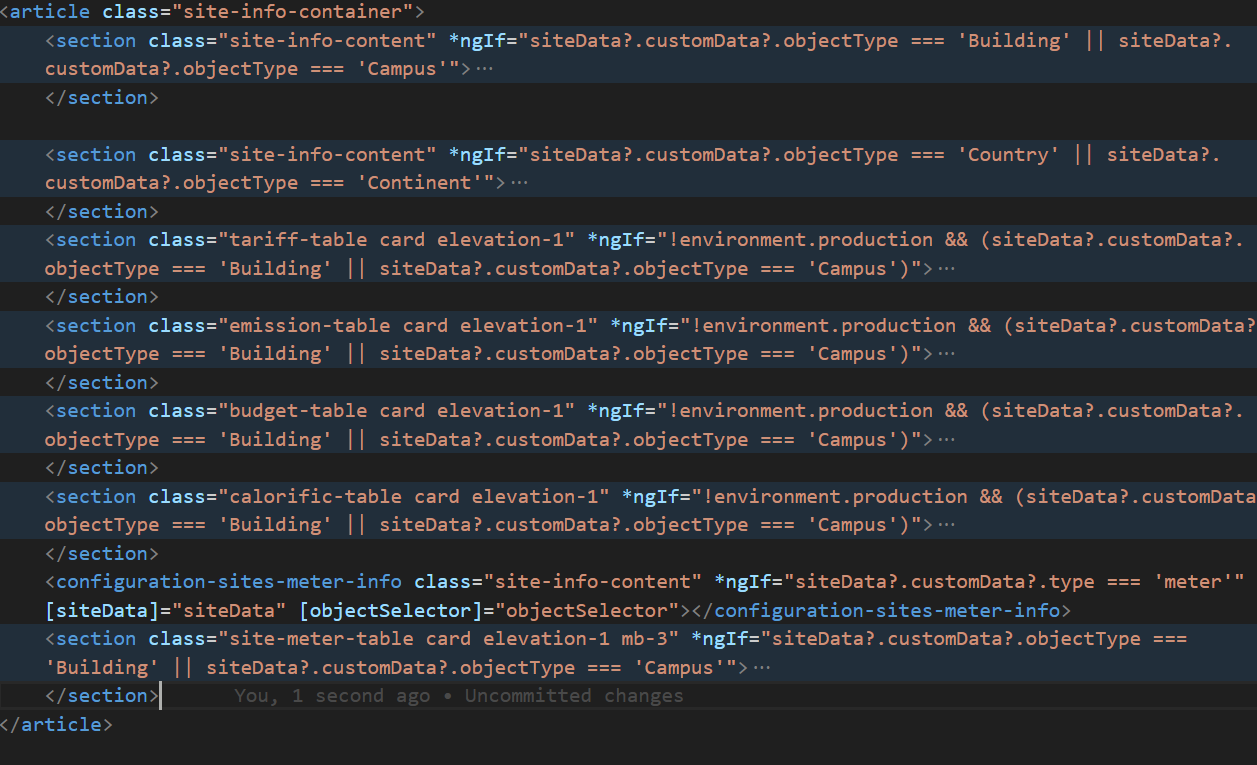
Description automatically generated

The HTML code for this page is show below. The <div> tag is used for all the card.

Each Card has header and its own content.



The above code can be refactored by using <article> and <section> tags.



1. The below shown screenshot is a modal, which is used to create a calorific value.

The semantics can be improved by adding tags like header, main, and footer.

A screen shot of a computer program

Description automatically generated

This HTML code for a modal can be improved as follows.

A screen shot of a computer program

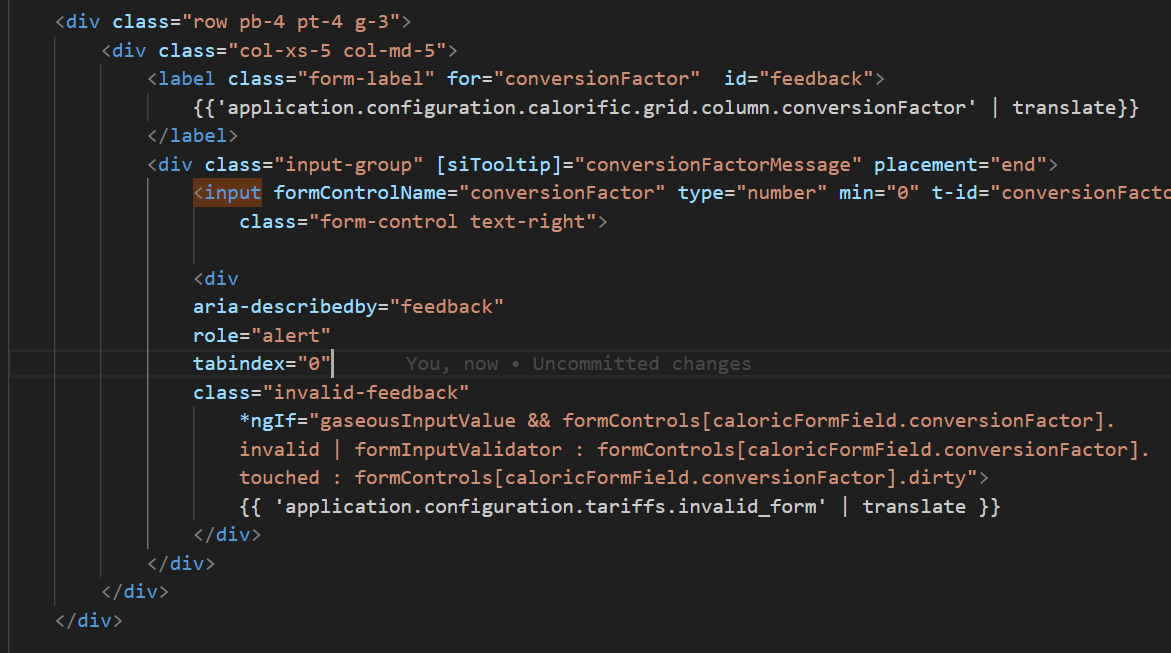
Description automatically generated

1. The accessibility of an input field can be improved by adding,

* ‘required’ text can be added along with the label instead of ‘\*’.

When we use some patterns to convey the user that the input is required, it won’t be understandable by a screen reader.

* ‘Aria-invalid = true’ can be used to specify an invalid input field
* We can make an inline alert message more accessible by adding the ‘role=” alert”’ attribute, tabIndex = 0.



1. The accessibility of a charts can be improved by adding the ‘aria’ object in the options as below

