Lab Exercise: Creating a Web Page using Pug Template

Introduction:

In this lab exercise, you will learn how to create a structured web page for a fictional Apple information website. You will create the following elements: header, navigation, main content section with articles, an aside section, and a footer. This exercise will help you practice HTML markup and structuring content.

Prerequisites:

Basic understanding of HTML elements and CSS properties.

Instructions:

1. **Create a Pug file:** In your project's views directory, create a new file with a .pug extension (e.g., apple_info.pug). This will be your Pug template.
2. **Write your Pug template:** Pug uses a different syntax than HTML, but it's quite straightforward. The web page structure is outlined in page 2. Sample layout and dummy contents are available in page 3 and 4 respectively.
3. **Create a route:** In your app.js file, create a route that will render your Pug template when visited.

```
app.get('/apple_info', (req, res) => {
  res.render('apple_info');
});
```

4. Use the CSS file provided (style.css) to style up the page
5. View the page in the browser (http://localhost:3000/apple_info)

Page Structure

1. Header:
   - Create a header element.
   - Inside the header, create an h1 element with the text "Apple".
2. Navigation:
   - Create a navigation element nav.
   - Inside the navigation, create three anchor a elements with placeholder href attributes, each representing different types of apples (e.g., Fuji, Summerred, Sciros). Use the br>\ tag to separate them.
3. Main Content Section:
   - Create a section element section.
   - Inside the section, create a main element main.
   - Inside the main element:
     - Create an h1 element with the text "Apples".
     - Create two paragraphs p with informative content about apples. You can use the provided text in page 4 as a reference.
4. Article:
   - Inside the main element, create an article element article.
   - Inside the article:
     - Create an h2 element with the text "Granny Smith".
     - Create a figure element figure with an img element inside it. Use any image (or placeholder) and set its src and alt attributes accordingly.
     - Add a figcaption element with the text "Granny Smith" below the image.
     - Create a paragraph p with information about Granny Smith apples. You can use the provided text in page 4 as a reference.
5. Aside Section:
   - Create an aside element aside.
   - Inside the aside, create two details elements details.
   - In each details element, create a summary element summary with the text "Jonagold" and "Belle de Boskoop", respectively.
   - Inside each details element, create a paragraph p with information about Jonagold and Belle de Boskoop apples. You can use the provided text in page 4 as a reference.
6. Footer:
   - Create a footer element footer with the text "© Apple Inc.".
7. Use appropriate CSS properties to layout the elements.

Apple

Apples

An apple is an edible fruit produced by an apple tree (Malus domestica). Apple trees are cultivated worldwide and are the most widely grown species in the genus Malus. The tree originated in Central Asia, where its wild ancestor, Malus sieversii, is still found today.

Apples have been grown for thousands of years in Asia and Europe and were brought to North America by European colonists. Apples have religious and mythological significance in many cultures, including Norse, Greek, and European Christian tradition.

Granny Smith

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The Granny Smith, also known as a green apple or sour apple, is an apple cultivar which originated in Australia in 1868.[1] It is named after Maria Ann Smith, who propagated the cultivar from a chance seedling. The tree is thought to be a hybrid of Malus sylvestris, the European wild apple, with the domesticated apple Malus domestica as the polleniser.

▼ Jonagold

Jonagold is a cultivar of apple which was developed in 1953 in New York State Agricultural Experiment Station of Cornell University's College of Agriculture and Life Sciences, a cross between the crisp Golden Delicious and the blush-crimson Jonathan; the name Jonagold is a portmanteau of these two variety names.

▶ Belle de Boskoop

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Belle de Boskoop

Belle de Boskoop (also called Goudrenet, Goudreinet or Goudreinnette) is an apple cultivar which originated in Boskoop, Netherlands, where it began as a chance seedling in 1856. Variants include Boskoop red, yellow and green.