ENSF-381: Assignment 1

Winter 2026

Department of Electrical and Software Engineering

University of Calgary

Due: February 20, 2026 at 11:59 PM

Purpose:

The purpose of this assignment is to build the front-end of an Ice Cream Shop Ordering system. The focus will be on designing and organizing HTML components to simulate an Ice Cream Shop Ordering system.

Administrative Details:

- The submission should be a single compressed file (.zip) containing the complete source code and resources (e.g., images), ready for execution without modifications.

- Name the submitted zip file as: Assignment1_ENSF381_Section#_Group#. For example: Assignment1_ENSF381_L01_Group01.

- The assignment must be completed in groups of two students.

- Include the group members' names and UCIDs at the top of the main HTML file (index.html) as source code comments.

- Students are expected to use only the HTML tags and properties introduced during lectures and mentioned in this assignment ONLY.

Specifications:

The goal is to create a visually appealing and user-friendly Ice Cream Shop Ordering System with the following pages: Homepage, Login Page, Menu View, Customize Order, and Order Summary. Focus solely on the HTML structure and CSS styling to create pages that are professional, visually appealing, and user-friendly.

NOTE: All styles must be within the _styles.css_ file.

File Organization:

Organize your files as follows in a dedicated project directory:

- index.html: The homepage of the Ice Cream Shop application.

- login.html: The login page.

- menu_view.html: The menu view page for customers.

- customize_order.html: The page where customers customize ice cream orders.

- order_summary.html: The page displaying the summary of a completed ice cream order.

- styles.css: CSS file for styling.

1. Homepage (index.html)

Create the homepage layout with HTML, including:

HTML Structure Requirements (index.html) (10 Marks):

- ***Header*** (*<header>*):
  - Include the ice cream shop logo.
  - Place the shop name immediately to the right the logo.
- ***Navigation*** (*<div>* directly below the header):

  The navbar should include links to the following pages*:*
  - Home (*index.html*)
  - Login (*login.html*)
  - Menu (*menu_view.html*)
  - Customize Order (*customize_order.html*)
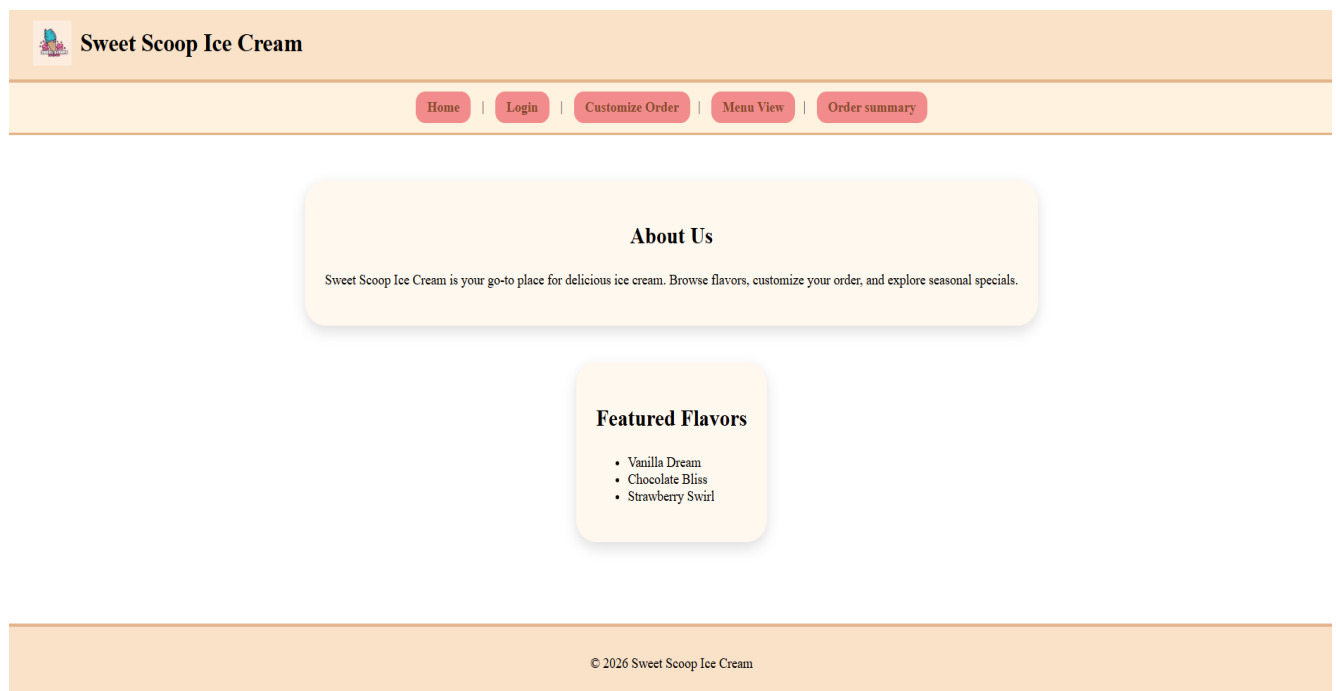 - Order Summary (*order_summary.html*)
- ***Main Content*** **(*<main>*)***:*

  This segment of the page should include:
  - **An "About Us" Section (***<section>*)*:* A short description of the shop, with text that highlights key features such as browsing flavors, customizing orders, and viewing popular items.
  - **A "Featured Flavors" Section** *(<section>):* A list of at least three ice cream flavors.
- ***Footer*** (*<footer>):*
  - Include a copyright notice.

CSS Requirements (10 Marks):

- *Header (<header>):*
  - Set background color to **#f9e2c8** (soft beige).
  - Use **Flexbox** to align the Ice Cream logo and shop name horizontally (left) and vertically (center) within the header.
  - The spacing between the logo and shop name should be managed using a Flexbox *gap* of *10px*.
  - Add padding **of *15px 30px*** for spacing.
  - Add a bottom border using **#e4b48c** (darker beige) color to visually separate the header from the navigation bar.

- *Navigation Bar (<div>):*
  - Set background color *#fff3e0* **(light cream).**
  - **Center-align** all navigation links horizontally.
  - Apply a **padding** of 10px for spacing.
  - Add a bottom border to distinguish the navigation from the main content.
  - Style navigation links with:
    - **No** underline by default.
    - Brown text color.
    - Background color: *#f28c8c* (**soft pink**).
    - **Bold** font weight.
    - Use margins left and right *10px* for horizontal spacing.
    - Border radius set to *12px*.

- *Main Content (<main>)*
  - *About Us / Featured Flavors Sections:*
    - Set background color to #fff8ee **(light cream).**
    - Apply rounded corners (border radius 25px).
    - **Center-align** section headings.
    - Apply **padding** of *25px* for spacing.
    - Add **bottom margins** *40px* to separate sections.

- Apply subtle **shadow** effects to create visual depth.

- Center the main container using flexbox

- Set maximum width for main container: *1100px*

- *Footer (<footer>)*
  o Set **background color** to *#f9e2c8* **(soft beige)** for consistency with the header.

  o **Center-align** the footer text.

  o Apply **padding** of *15px*.

  o Add a top border using *#e4b48c* to visually separate the footer from the main content.

2. Login Page (login.html)

HTML Structure Requirements – Login Page (login.html) (10 Marks)

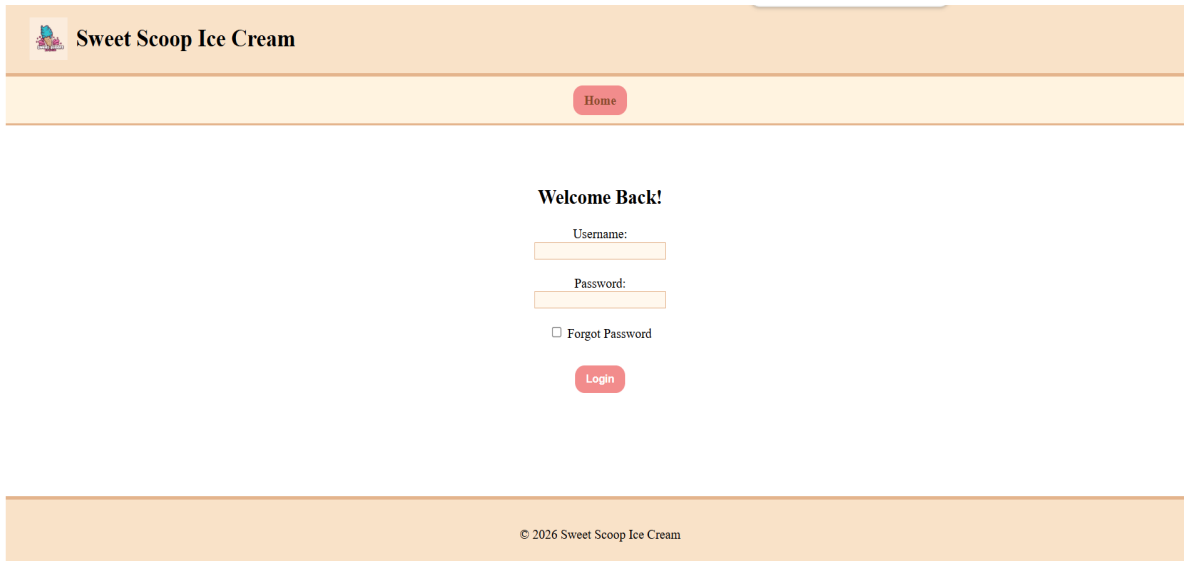Create a login page for Sweet Scoop Ice Cream with the following elements and structure:

- *Header (<header>)*:
  o Contains the ice cream shop logo and shop name.

- *Navigation (<div> directly below the header):*
  - Includes a link to the Home page only (*index.html*).

- *Main Content (<main>):*
  - A login form with:

    - A short **welcome message** above the form.

    - **Username** field (text input).

    - **Password** field (password input).

    - **Login button** that navigates to *menu_view.html* when clicked.

    - **"Forgot Password"** checkbox (non-functional).

    - *
* for spacing between elements.

- *Footer (<footer>):*
  - Displays a copyright notice.

CSS Requirements (10 Marks):

- *Header, Navigation, Footer*
  - Same styling as **Homepage**.
- *Login Form (<main> and <form>)*
  - **Center-align** the login form using flexbox.

  - Apply **maximum width** of the main content to 1100px**.**

  - Add **padding: 20px** inside the main container.

  - **Form Styling:**

    - **Center-align** all form elements using text alignment.

    - Add bottom margin of 70px to create spacing between the form and the footer.

- *Input Fields*
  - Style **username** and **password fields** with:

    - Set background color to #fff8ee (**light cream**).

- *Login Button*
  - Set background color *#f28c8c* (**Soft pink**), White text, Bold font weight.

  - Apply border radius *12px*.

o Set padding to *8px* on the top and bottom, and *14px* on the left and right.

o The cursor should change to **pointer** when hovering over the button.

3. Menu View (menu_view.html)

HTML Structure Requirements - Menu View (menu_view.html) (15 Marks)

Display the current season or promotion, selectable from a drop-down menu (last 4 seasons).
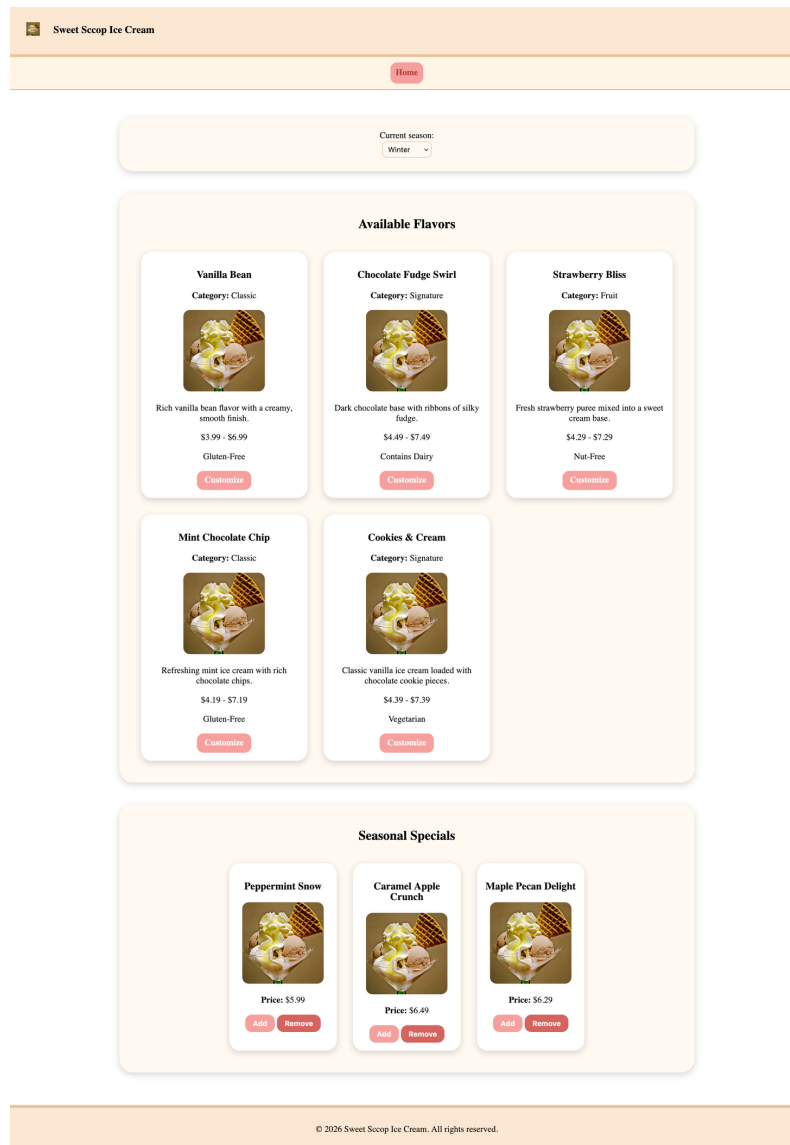
- *Header (<header>)***:**

  o Contains the ice cream shop logo and shop name.

- *Navigation (<div> directly below the header):*
  o Includes navigation links (Homepage).

- *Main Content (<main>):*
  o Includes a drop-down menu to display the current season or promotion (last four seasons).

  o Displays ice cream items in a tiled layout (three tiles per row).

  o Includes an **Available Flavors** section with tiles that contain:

    ▪ Ice cream name and category.

- Image.

- Description.

- Price range.

- Dietary information.

- A hyperlink to customize the order (customize_order.html).

o Includes a **Seasonal Specials** section with tiles that contain:

- Ice cream name and image.
- Price.
- Two non-functional buttons:
  - "Add" button (soft pink).
  - "Remove" button (darker red).

- *Footer (<footer>):*
  o Displays a copyright notice.

CSS Styling Requirements (15 Marks):

- **Header, Navigation, Footer**

  o Same styling as **Homepage**.

- *Season / Promotion Dropdown (<select>)*
  o Styles for the dropdown menu:

  - Set background color to *#fff8ee* (**light cream**).

  - Set border radius to *10px*.

  - Add padding *6px 10px*.

  - Add border *#e4b48c*.

  - Center the dropdown horizontally using flexbox or text alignment.

- *Ice Cream Tiles. Each tile should:*
  o Set background color of **#ffffff.**

  o Apply border 20px, padding 15px, margin 15px.

  o Use **box-shadow effect** for better visibility.

o Display tiles using inline-block to allow multiple tiles per row.

o center-aligned text and content inside tiles.

o Hyperlink to customize_order.html: soft pink background (*#f28c8c*), white text, bold font, border-radius *12px*, padding *8px 14px*.

- *Add / Remove Buttons (Seasonal Specials)*
  o **Add Button:** soft pink background (*#f28c8c*), white text, bold font, border-radius *12px*, padding *8px 14px*.

  o **Remove Button:** darker red background (*#c94c4c*), white text, bold font, border-radius *12px*, padding *8px 14px*.

  o Cursor should change to *pointer* on hover.

4. Customize Order Page (customize_order.html)

HTML Structure Requirements – Customize Order Page

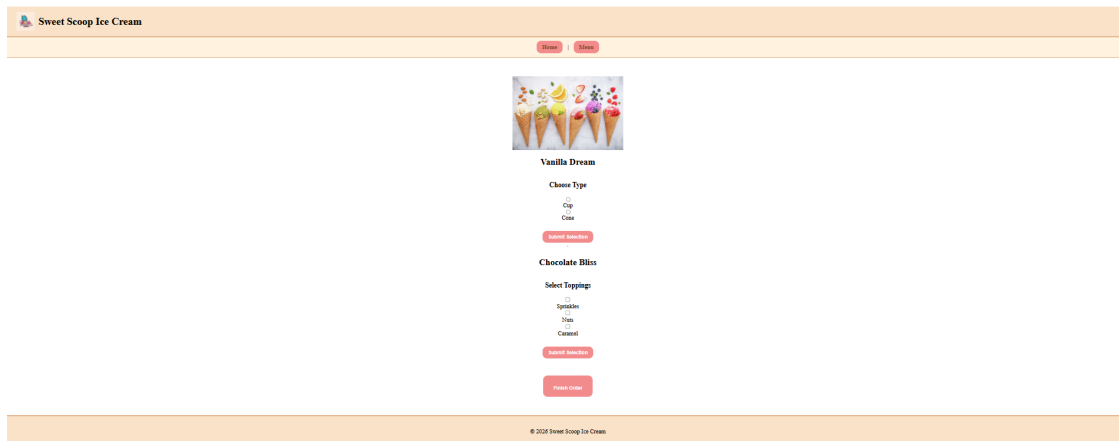*(customize_order.html) (10marks)*

Create a customized order page for Sweet Scoop Ice Cream with the following elements and structure:

- **Header** *(<header>):*
    - Contains the ice cream shop logo and shop name.

- **Navigation** (*<div>* directly below the header):
    - Includes navigation links (e.g., links to *Home(index.html)* and *Menu(menu_view.html*).

- **Main Content (**<main>**):**
    - Displays two hardcoded ice cream orders on the same page using a form.
    - Includes a banner image at the top of the main content.
    - Vanilla Dream:
        - Allows the user to choose the ice cream type using radio buttons (Cup or Cone).
        - Includes a non-functional "Submit Selection" button.
    - Chocolate Bliss:
        - Allows the user to choose toppings using checkboxes.
        - Includes a non-functional Submit Selection button.
    - Includes a **Finish Order button** that navigates to *order_summary.html*.

- **Footer (**<footer>**):**
    - Displays a copyright notice.

CSS Styling Requirements (5 marks):

- ***Header, Navigation, Footer***
    - Same styling as **Homepage**.
- ***Main Container* (**<main>**)**
    - Center the main content using flexbox.

- Set maximum width of main content 1100px.

- Add padding inside main container 20px.

- Center-aligned Content to be vertically stacked.

- **Banner Image**
  - Set the banner image to be centered within the main container.

  - Ice Cream Options

  - Apply spacing between radio button and checkbox options using line breaks *(<br>)*.

5. Order Summary (order_summary.html)

HTML Structure Requirements – Order Summary Page (order_summary.html)

(10 Marks)

Create an order summary page for Sweet Scoop Ice Cream that displays a completed ice cream order with the following elements and structure:

- **Header** (*<header>):*
  - Contains the ice cream shop logo and shop name.

- **Navigation (<div> directly below the header):**
  - Includes navigation links to the Homepage and Menu View.

- *Main Content* **(<main>)***:*

  o Displays a hardcoded summary of a completed ice cream order.

  o Uses a *<table>* to present the order details.

  o Order Summary Table includes:

  - Four rows: Flavor, Type, Toppings, and Price.
  - Displays the ice cream name.
  - Shows the selected type (cup or cone).
  - Lists the selected toppings.
  - Shows a price.

- *Buttons:*
  o Includes an "Edit Order" button that navigates back to **customize_order.html**.
  o Includes a "Confirm Order" button that is non-functional.

- *Footer (<footer>):*
  o Displays a copyright notice.

CSS Styling Requirements (5 Marks):

- *Header, Navigation, Footer*
  o Same styling as **Homepage**.
- *Order Summary Table*
  o Add a border to the table: **1px solid black**.

  o Remove double borders using border-collapse.

  o Center the table horizontally.

  o Set the table background color to **#fff8ee**.

  o Add padding for **top and bottom:** 10px.

  o Add padding for **left and right:** 15px.

  o Set the text alignment to **left**.

- *"Edit Order" and "Confirm Order" Buttons:*
  o soft pink background (*#f28c8c*), white text, bold font, border-radius *12px*, padding *8px 14px*.

Order Summary

Item	Details
Ice Cream	Vanilla Dream
Type	Cone
Toppings	Sprinkles, Nuts
Total Price	$6.50

Edit Order

Confirm Order