

HTML and CSS Review Part 1 – HTML Lab Work

Advanced Web Programming

Important Notes:

- This lab must be done individually. Do not share your work with others, it's not a group lab-work
- The lab should be submitted (online - GitHub Account) before the due date in order not to lose marks (*Please inform me if you have any issue in accessing your online private shared folder*)
- Follow the exact naming rules for all your lab-work files as explained in the instructions and shown in the diagram
- At the end of this , you should have a **folder named “YourFirstName-html-css-lab”**

Example: If your name is: Martin Smith → the folder name will be: “Martin-html-css-lab”

- Upload the main folder of the lab into the Canvas based on the instructions. *As shown in the class*

(5 Marks)

Lab-work Contents:

- It will be a demonstration of your skills in using HTML for creating a * **micro website of a fictional company** “The stripped Umbrella” that is consisted of **4 pages**.
- You will write the entire lab-work using only HTML language and no styling for now. The lab-work is consisted of using the last version of HTML which is HTML5
- The lab-work covers all the important and the basic HTML elements that we have covered in the class
- All the required files for the lab-work like the images, videos, and audios will be provided to you
- You can also copy all the paragraphs and the titles from the pdf file the contains the lab-work paragraphs

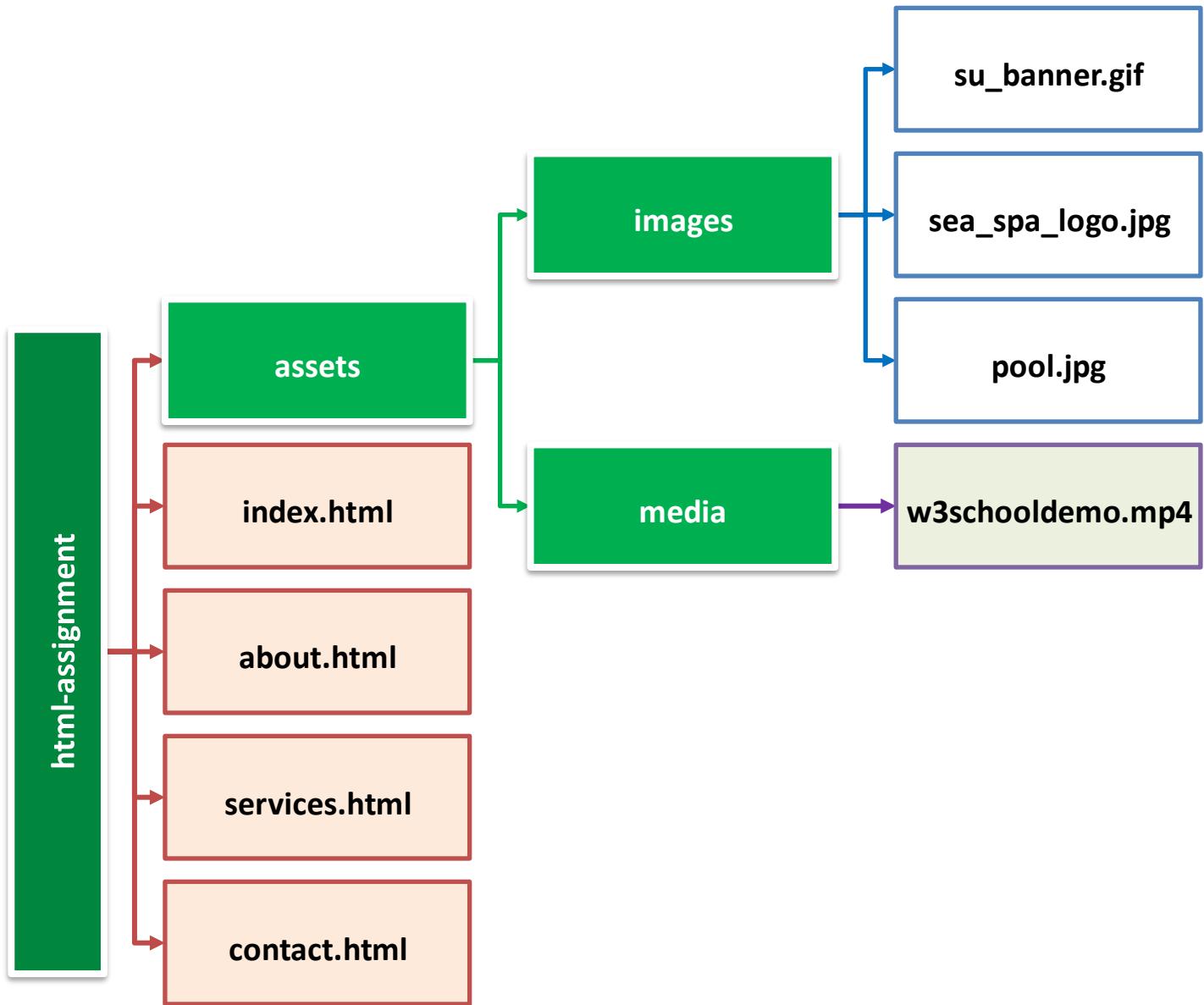
*NOTES:

- You can come up with different ideas, images, paragraphs about a different website if you like, but make sure to answer or apply the same instruction to your other website.
- All the required files for this lab-work will be provided to you. If you want to come with other content you will need to search for other images or media that fit or suit your website subjects
- The second/next lab-work will be based on the HTML content of this one but with adding all the CSS (styles).

Lab-work Instructions:

- All the lab-work files and **subfolders** must be inside a **root folder** of your lab-work “html-lab-work” □ The website is consisted of **4 HTML pages as described below:**
 - The **link name/title** in the navigation is **Home** but the **actual file name** is **index.html** And so on for the rest of the pages:
 - **The title → About Us:** The file name → **about.html**
 - **The title → Our Services:** The file name → **services.html**
 - **The title → Contact Us:** The file name → **contact.html**
- All the **images, audios, and videos** must be inside a subfolder folder named “**media**” and “**images**” which are inside the “**assets**” folder (*Please refer to the diagram in the next page for more details*)
- Make sure to have your website folder structure like the diagram, **notice that the folders have green colours**
- **Any extra folders or unused files are NOT ALLOWED to be inside the lab-work folder**

Lab-work Folder Structure:



Please pay attention to the folder structure diagram:

- All the folders and files names are the actual names that must be used in your lab-work (notice that the images files and the video files are given to you so you should not rename them)
- All the HTML files are inside the main lab-work root folder **[NOT inside assets]**
- The folder “assets” is inside the main lab-work root folder
- The two folders (images and media) are inside assets folder
- All the pictures’ files (images) are inside images folder
- The video file (w3schooldemo.mp4) is inside media folder

(10 Marks)

General Contents and Rules for All Pages:

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1. All pages must have the following **HTML5 template** and **Element Layout**. You can use the VS Code to generate the **HTML5 boilerplate** and you will have the meta element for edge and the meta element for RWD:

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="utf-8">
    <title>Page Title</title>

        Add here the full optional meta elements for:
        author, content and description

</head>

<body>
    <div class="container">

        <header>
        <!--
The banner image (su_banner.gif) has to be here
[Check point 3 part 1]
-->
            <nav id="main-nav">
                <!--
Place your main navigation items here,
as explained in the instructions [Check point 3 part 2]
-->
            </nav>
        </header>

        <main class="content">
            <!-- place your main page contents here,
            as explained in the instructions for each page -->
        </main>

        <footer>
            <!-- place the footer content here -->
        </footer>
```

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```
</div>  
</body>  
</html>
```

2. Write an appropriate and short **title <title>** for **each page** based on your opinion when you start coding the next pages
3. All pages must have the **same main banner** and the **same navigation items** Inside the **<header>** element, complete (implement) the following two parts (sections) Inside the **<header>** element:
Part1: Insert the image “su_banner.gif”, **before the navigation (nav)** as explained in the code comment:

This image “su_banner.gif” will be the first child of **<header>** element



Part2: Insert a **<nav>** element. **Inside the <nav> element** (which represents the main navigation), write the following **unordered list** and **list items with their corresponding hyperlinks**:

- **Home** → Hyperlink to an HTML file named: **index.html**
- **About Us** → Hyperlink to an HTML file named: **about.html**
- **Our Services** → Hyperlink to an HTML file named: **services.html**
- **Contact Us** → Hyperlink to an HTML file named: **contact.html**

4. Inside the **footer element <footer>**, write the following content in **one line**:

Copyright © 2023 ILAC and EFREI Paris – HTML-CSS major lab-work - created by: Your Full Name - All rights reserved

5. All your code in all the pages must be **free of warnings and errors**. You can use the online tool of **W3C Markup Validator** website [<https://validator.w3.org>]. (*Note: Don't worry about the errors or the warnings that you might have when using iframe with google map if you can't avoid or correct them all or table border and don't worry about the errors for using obsolete attributes like bgcolor or border if you want to use them*)

HINTS:

- Create the template (first) page with HTML5 required elements and the other shared elements like the header, nav, and footer
- Save it as **index.html**. validate it using W3C validator,
- Then save the file “**index.html**” as:
 - **about.html**
 - **services.html**
 - **contact.html**
- Write the content of each html page based on the lab-work instructions

(15 Marks)

Home Page (**index.html**):

This page should have the following contents with the same order (a heading, a paragraph, an image, and a video):

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1. Heading 2:

Welcome to Our Amazing Spa ➔ **Code Example:** <h2> Welcome To Our Amazing Spa </h2>

2. Paragraph:

Welcome to The Striped Umbrella — a full-service resort and spa just steps from the Gulf of Mexico and ten miles east of Crab Key, Florida. Come enjoy the best of both worlds, a secluded sandy beach populated with beautiful birds, yet a short drive down the road from world-class shopping, restaurants, and entertainment. Bring a good book and leave your laptop at the office. You won't want to go home.

3. Image:



4. Video:

Use the file “**w3schooldemo.mp4**”:

- Set the width to 400px
- Add Controls (like play and speaker options)
- Load the **3-popular video file formats** that we discussed in our class **Notes:**
 - No need to have the 3 actual files in your folder or even converting the video file, just put their links in the code assuming that you have 2 more audio files beside **the .mp4 file**
 - Also assume that these two files are also saved inside the media folder so make sure to set the source attribute in your code based on this assumption
- Make sure to provide an **alternative text** in case if the browser doesn't support HTML5 video with any descriptive text you prefer
- Don't make the video auto play (run automatically)
- Add a **poster image** to your video to be displayed as a background before playing the video



Note: Please be advised that this short movie was taken from W3Schools website to be used only to answer this labwork. Due to the copyright, this movie is not for any commercial use.

Home Page Image Sample:



- [Home](#)
- [About Us](#)
- [Our Services](#)
- [Contact Us](#)

Welcome to our amazing Spa

Welcome to The Striped Umbrella — a full-service resort and spa just steps from the Gulf of Mexico and ten miles east of Crab Key, Florida. Come enjoy the best of both worlds, a secluded sandy beach populated with beautiful birds, yet a short drive down the road from world-class shopping, restaurants, and entertainment. Bring a good book and leave your laptop at the office. You won't want to go home.



(15 Marks)

About Us Page ([about.html](#)):

This page should have the following 12 contents (**inside the body**) with the same order:

1. **Heading 2 Element:** → Tip 😊 → **<h2>What you need to know about spa!</h2>** What you need to know about spa!

2. Paragraph:

A spa is a location where mineral-rich spring water (and sometimes seawater) is used to give medicinal baths. Spa towns or spa resorts (including hot springs resorts) typically offer various health treatments, which are also known as balneotherapy. The belief in the curative powers of mineral waters goes back to prehistoric times. Such practices have been popular worldwide, but are especially widespread in Europe and Japan. Day spas are also quite popular, and offer various personal care treatments.

3. List Items:

1. Origins of the term
 - a. Bathing in Greek and Roman times
 - b. Bathing in medieval times
 - c. Bathing in the 18th century
 - d. Bathing in the 19th and 20th centuries
2. Treatments
3. Recent trends
4. Types of treatments



- For this sub ordered list, you can use attribute “type” to have the value of “a” in order to get the letters (Just for testing).
- You will use CSS to style the ordered/unordered list later

Note: you will have to make the points (list items) 1, 2, 3, and 4 to work as hyperlinks to their corresponding titles within the same page (like the Wikipedia) using “fragment identifiers”:

Hint: using id attribute for every heading that you want to connect to.

1. **Origins of the term** → linked to heading 3: Origins of the term
2. **Treatments** → linked to heading 3: Treatments
3. **Recent trends** → linked to heading 3: Recent trends
4. **Types of treatments** → linked to heading 3: Types of treatments

4. Heading 3:

Origins of the term

5. Paragraph:

The term is derived from the name of the town of Spa, Belgium, whose name is known back from Roman times, when the location was called Aquae Spadanae, sometimes incorrectly connected to the Latin word spargere meaning to scatter, sprinkle or moisten. The word spa itself denotes "fountain". Some experts also suggest that the word "spa" originated from the name of the Belgian town named Spa where a curative natural spring was discovered in the 14th century.

6. Heading 3:

Treatments

7. Paragraph:

A 'body treatment', 'spa treatment', or 'cosmetic treatment' is non-medical procedure to help the health of the body. It is often performed at a resort, destination spa, day spa, beauty salon or school.

8. Heading 3:

Recent trends

9. Paragraph:

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In the modern world spa therapies are linked to various domains including beauty, pampering, indulgence, and health. Spa industry is thought to be growing at a significantly high rate, and most importantly it is observed to embrace wellness as its core business. By the late 1930s more than 2,000 hot- or cold-springs health resorts were operating in the United States.

10. Heading 3:

Types of treatments

11. Unordered list:

- Day spa, a form of beauty salon.
- Destination spa, a resort for personal care treatments.
- Spa town, a town visited for the supposed healing properties of the water. □ Foot spa

12. Paragraph:

To learn more about spa in general, you can visit the [Spa Page in Wikipedia](#).

NOTES:

Make these words “[Spa Page in Wikipedia](#)” a **hyperlink (Absolute Link)** to the spa page in Wikipedia website:

- The page should be **opened in a new tab** or a new window
- The URL link is: <https://en.wikipedia.org/wiki/Spa>

(20 Marks)

About Us Page Image Sample:



- [Home](#)
- [About Us](#)
- [Our Services](#)
- [Contact Us](#)

What you need to know about spa!

A spa is a location where mineral-rich spring water (and sometimes seawater) is used to give medicinal baths. Spa towns or spa resorts (including hot springs resorts) typically offer various health treatments, which are also known as balneotherapy. The belief in the curative powers of mineral waters goes back to prehistoric times. Such practices have been popular worldwide, but are especially widespread in Europe and Japan. Day spas are also quite popular, and offer various personal care treatments.

1. [Origins of the Term](#)
 1. Bathing in Greek and Roman times
 2. Bathing in medieval times
 3. Bathing in the 18th century
 4. Bathing in the 19th and 20th centuries
2. [Treatments](#)
3. [Recent Trends](#)
4. [Types of Treatments](#)

Origins of the term

The term is derived from the name of the town of Spa, Belgium, whose name is known back from Roman times, when the location was called Aquae Spadanae, sometimes incorrectly connected to the Latin word spargere meaning to scatter, sprinkle or moisten. The word spa itself denotes "fountain". Some experts also suggest that the word "spa" originated from the name of the Belgian town named Spa where a curative natural spring was discovered in the 14th century.

Treatments

A 'body treatment', 'spa treatment', or 'cosmetic treatment' is non-medical procedure to help the health of the body. It is often performed at a resort, destination spa, day spa, beauty salon or school.

Recent trends

In the modern world spa therapies are linked to various domains including beauty, pampering, indulgence, and health. Spa industry is thought to be growing at a significantly high rate, and most importantly it is observed to embrace wellness as its core business. By the late 1930s more than 2,000 hot- or cold-springs health resorts were operating in the United States.

Types of treatments

- Day spa, a form of beauty salon.
- Destination spa, a resort for personal care treatments.
- Spa town, a town visited for the supposed healing properties of the water.
- Foot spa

(15 Marks)

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Our Services Page ([services.html](#)):

This page should have the following contents:

1. Heading 2:

What we can provide you!

2. Heading 3:

Massages

3. Definition

list:

Definition title: Sports Massage

Definition data: Our deepest massage for tense and sore muscles. Not recommended for first-time massage clients. Do the same thing for the following two items:

Swedish Massage

A gentle, relaxing massage. Promotes balance and wellness. Warms muscle tissue and increases circulation.

Hot Stone Massage

Uses polished local river rocks to distribute gentle heat. Good for tight, sore muscles. Balances and invigorates the body muscles. Advance notice required.

The same structure

4. Table:

- First two rows inside the `<thead>` element
- The last row inside the `<tfoot>` element
- The rest of the rows (in between) inside the `<tbody>` element
- Add border to your table using the deprecated attribute for the border **(Just for this lab-work only)**

Note: Please be advised that the table diagram below is just to show you the table structure (how many columns, how many rows, or the merged cells) and the content only. So, you don't need to worry about the width and the height of rows, columns, or the cells.

The service you need for your body			
Service	Description	Service	Description
Revitalizing Facial	A light massage with a customized essential oil blend that moisturizes the skin and restores circulation.	Gentlemen's Facial	A cleansing facial that restores a healthy glow. Includes a neck and shoulder massage.
Milk Mask	A soothing mask that softens and moisturizes the face. Leaves your skin looking younger.	Salt Glow	Imported sea salts are massaged into the skin, exfoliating and cleansing the pores.
Herbal Wrap	Organic lavender blooms create a detoxifying and calming treatment to relieve aches and pains.	Seaweed Body Wrap	Seaweed is a natural detoxifying agent that also helps improve circulation.

All these services are provided on daily bases

NOTE:

To apply a border like the example (table) above, you can use the obsolete attribute named “border” only for this labwork, or you can ignore it so it's up to you 😊. Just remember that you will have to remove it in the final lab-work as you will use CSS instead.

Our Services Page Image Sample:



The Striped Umbrella
25 Beachside Dr. • Ft. Eugene, Florida 33775

- [Home](#)
- [About Us](#)
- [Our Services](#)
- [Contact Us](#)

What we can provide you!

Massages

Sports Massage
Our deepest massage for tense and sore muscles. Not recommended for first-time massage clients.

Swedish Massage
A gentle, relaxing massage. Promotes balance and wellness. Warms muscle tissue and increases circulation.

Hot Stone Massage
Uses polished local river rocks to distribute gentle heat. Good for tight, sore muscles. Balances and invigorates the body muscles.
Advance notice required.

The service you need for your body			
Service	Description	Service	Description
Revitalizing Facial	A light massage with a customized essential oil blend that moisturizes the skin and restores circulation.	Gentlemen's Facial	A cleansing facial that restores a healthz glow. Includes a neck and shoulder massage.
Milk Mask	A soothing mask that softens and moisturizes the face. Leaves your skin looking younger.	Salt Glow	Imported sea salt are massaged into the skin, exfoliating and cleansing the pores.
Herbal Wrap	Organic lavender blooms create a detoxifying and calming treatment to relieve aches and pains.	Seaweed Body Wrap	Seaweed is a natural detoxifying agent that also helps improve circulation.

All these services are provided on daily bases

(20 Marks)

Contact Us Page ([contact.html](#)):

This page should have the following contents:

1. Heading 2: Contact

Us:

2. HTML Form:

- You will determine the appropriate attributes and their values

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- Add the sign “*” beside the required fields labels like First Name: * even if it's now shown in the images below and the required fields are:
 - **First Name:** [Required Field + maximum characters = 25]
 - **Last Name:** [Required Field + maximum characters = 25]
 - **Email:** [Required Field + email input type + maximum characters = 35]

First Section <fieldset>: Personal Information

Personal Information:

First Name:

Last Name:

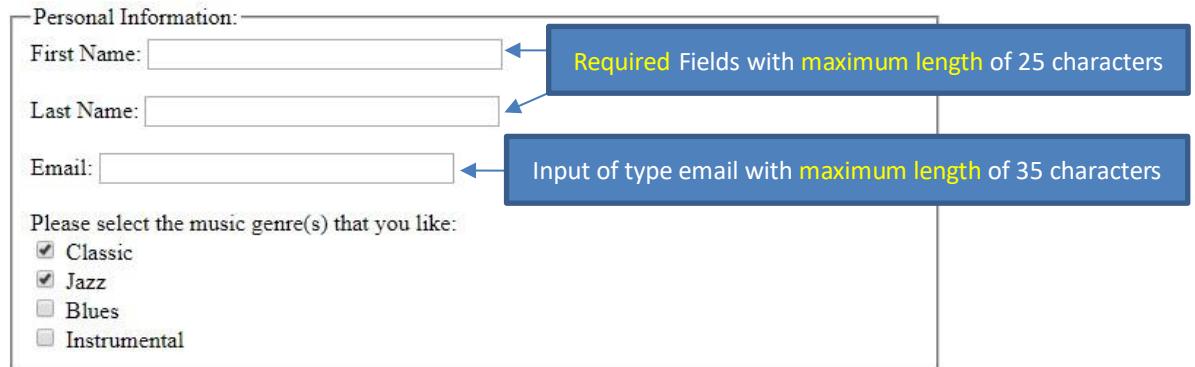
Email:

Please select the music genre(s) that you like:

Classic
 Jazz
 Blues
 Instrumental

Required Fields with maximum length of 25 characters

Input of type email with maximum length of 35 characters



Second Section <fieldset>: Your Message

Your Message:

How did you hear about us?

Would you recommend us to your friends?

Yes No Maybe

Your request:

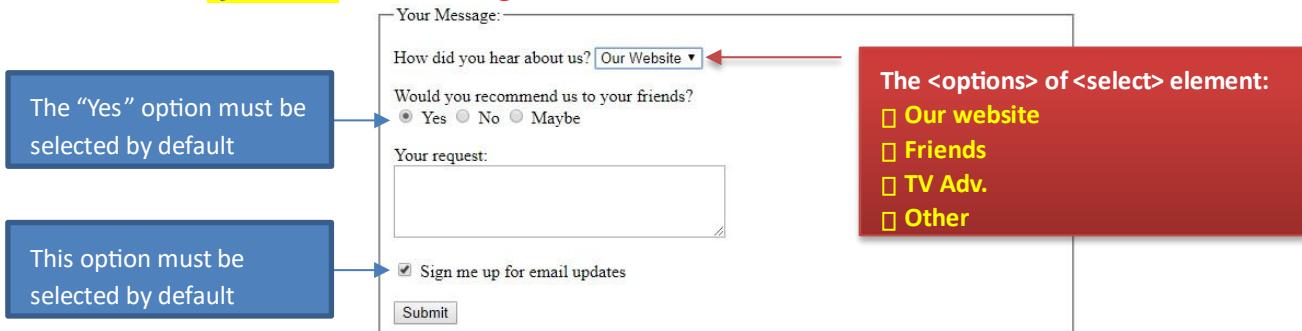
The “Yes” option must be selected by default

This option must be selected by default

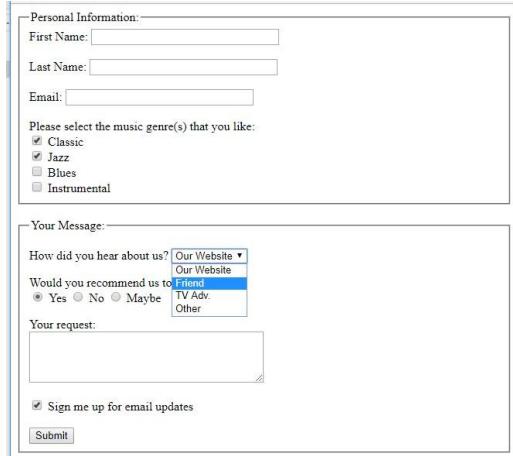
Sign me up for email updates

The <options> of <select> element:

- Our website
- Friends
- TV Adv.
- Other



Below is an image for the entire form:



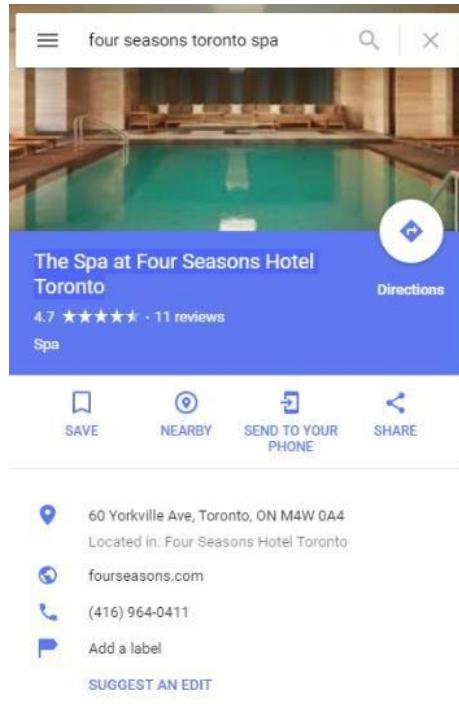
The screenshot shows the full form with both sections. The first section contains fields for First Name, Last Name, and Email, along with a checkbox group for music genres. The second section contains fields for hearing about us (with 'Our Website' selected), recommending to friends (with 'Yes' selected), a request text area, and checkboxes for email updates and submission.

3. Embedded Google Map with iframe:

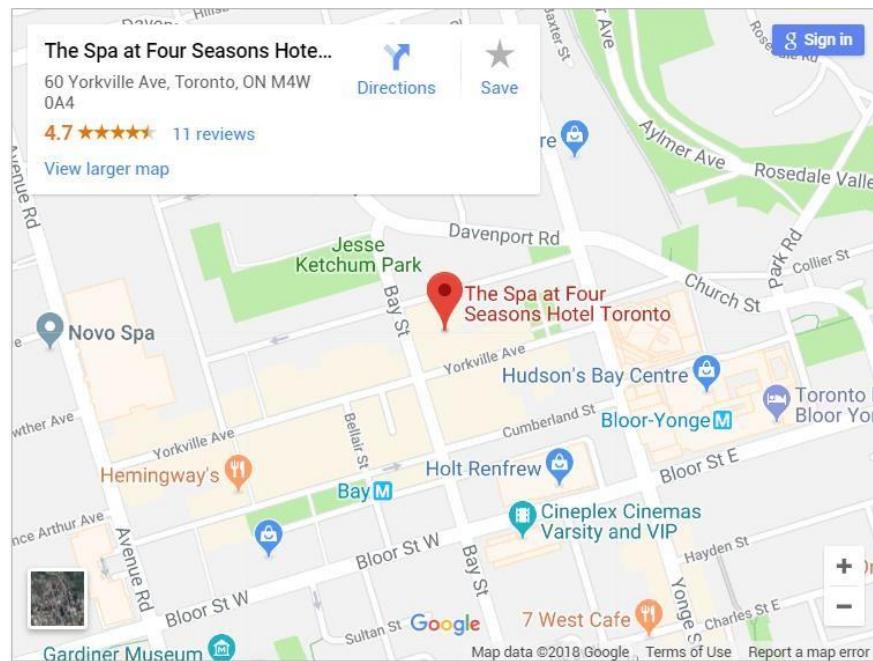
- Use your favourite browser with **Google search engine** to search for “four seasons Toronto Spa” and customize your result for “Maps”:

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- Embed the google map of that location into your page using iframe with any setting or attributes you prefer



Contact Us Page Image Sample:



- [Home](#)
- [About Us](#)
- [Our Services](#)
- [Contact Us](#)

Personal Information

First Name*

Last Name*

Email*

Please select the music genre(s) that you like:

- Classic
- Jazz
- Blues
- Instrumental

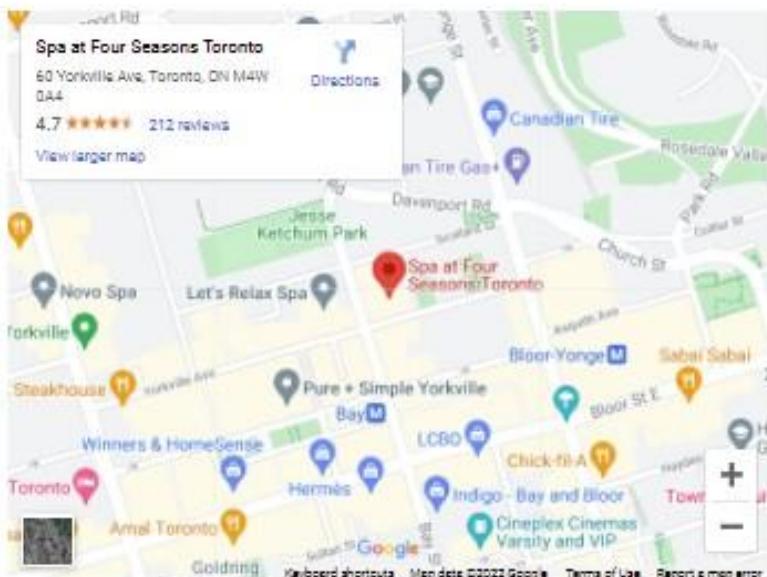
Your Message

How did you hear about us? Our Website ▾

Would you recommend us to your friends? Yes No Maybe Your request:

Sign me up for email updates

[Register](#)



(20 Marks)