SLIIT UNI
THE KNOWLEDGE UNIVERSITY

Faculty of Computing

BSc (Hons) in Software Engineering
Year 2 Semester 2 (2026)

SE2020 - Web and Mobile Technologies   Lab 01

Lab Exercise 01 – Develop a web page using HTML

Objectives

By the end of this lab session, you will be able to understand page structure and HTML tags.

Introduction

Website is a collection of web pages which are grouped together and usually connected in various ways. A web page is a document commonly written in Hypertext Markup Language (HTML)that is accessible through the Internet or other network using an Internet browser. A web page is accessed by entering a URL address and may contain text, graphics, and hyperlinks to other web pages and files. HTML stands for Hypertext Markup Language, and it is the most widely used language to write Web Pages. HTML describes the structure of Web pages using markup. HTML elements are the building blocks of HTML pages. HTML elements are represented by tags.

Basic HTML Example

```
<!DOCTYPE html>
<html>
<head></head>
<body></body>
</html>
```

- `<!DOCTYPE html>`

  It should include this tag even before the tag. It is not an html tag, but tells the browser, the version of HTML page has written.

- `<html>`

  This tag tells browser that this is the start of an html document. All the html document contains between '`<html>`' and '`</html>`'.

- `<head>`

  Text between '`<head>`' and '`</head>`' tags are the header information. These content does not display on the web page.

- `<body>`

  All the information which are displaying on the webpage include between the `<body>` Tag.

Exercise 01:

Get the following code and complete it using the given instructions. When completing the code, comment the letter of the exercise right before the answer code.

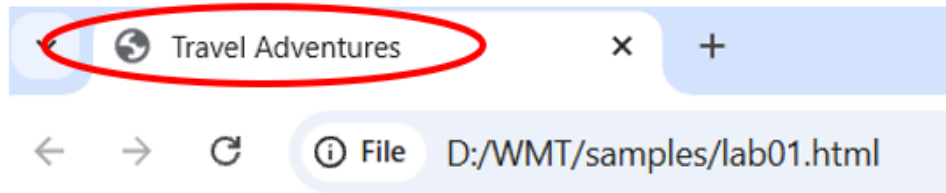## a. Add a title

- Title displays in the title bar of the browsing name.


```
<!DOCTYPE html>
<html>
<head>
    <!--a-->
    <title>Travel Adventures</title>
</head>
```

b. Add a Header

- `<h1>`, `<h2>`, `<h3>`, `<h4>`, `<h5>`, `<h6>` are the headers in HTML.
- Add a suitable header using those tags to display website name

```
<body>

    <!--b-->
    <h1>Travel Adventures</h1>
```

c. Add an Image

- Create a new folder as **images** in the same directory where the html file was created.
- Download the image from the given URL and save it inside the newly created images folder.

`https://unsplash.com/photos/green-grass-field-during-sunset-_RBcxo9AU-U`

- Add the specific image to the html code.
- Change the width to 300px and height to 200px.

```
<!--c-->
<img src="./images/travel2.jpg" alt="Travelling" width="300" height="200">
```

d. Add a link

- Insert the following link with the text 'Visit the official website of Sri Lanka Tourism' using `<a>` and `<p>` tags.

https://www.w3schools.com/html/html_links.asp

```
<!--d-->
<p><a href="https://www.srilanka.travel/">Visit the official website of Sri Lanka Tourism</a></p>
```

e. Add a horizontal line.

https://www.w3schools.com/tags/tag_hr.asp

```
<!--e-->
<hr>
```

f. Create the below section by adding `<h2>`, `<p>`, `<ol>`, `<ul>` and `<li>`

- Add the heading '**Packing Essentials**' using `<h2>` tag.
- Then add a paragraph using `<p>` tag. Paragraph content is 'Good preparation helps travellers enjoy a safe and comfortable journey.'
- Create an ordered list `<ol>` for the main items:
  - Clothes
  - Travel Documents
  - Gadgets
  - Toiletries

https://www.w3schools.com/html/html_lists_ordered.asp

- Inside the Gadgets item, create a nested list `<ul>` for:
  - Laptop
  - Smartphone

https://www.w3schools.com/html/html_lists_unordered.asp

```
<!--f-->
<h2>Packing Essentials</h2>

<p>Good preparation helps travelers enjoy a safe and comfortable journey.</p>

<ol>
    <li>Clothes</li>
    <li>Travel Documents</li>
    <li>Gadgets
        <ul>
            <li>Laptop</li>
            <li>Smartphone</li>
        </ul>
    </li>
    <li>Toiletries</li>
</ol>
```

g. Add a table

- Create a table to display Trip Cost Overview.

- Table should have 3 columns as **Item**, **Cost (USD)**, **Notes**.

- Add 3 data rows as given below.

- Use table attributes:
  - border="1"
  - cellpadding="8"
  - cellspacing="0"

https://www.w3schools.com/html/html_tables.asp

```
<!--g-->
<h3>Trip Cost Overview</h3>
<table border="1" cellpadding="8" cellspacing="0">
    <tr>
        <th>Item</th>
        <th>Cost (USD)</th>
        <th>Notes</th>
    </tr>
    <tr>
        <td>Flight Ticket</td>
        <td>1200</td>
        <td>Round trip</td>
    </tr>
    <tr>
        <td>Hotel</td>
        <td>800</td>
        <td>7 nights</td>
    </tr>
    <tr>
        <td>Food</td>
        <td>400</td>
        <td>Estimated</td>
    </tr>
</table>
```

h. Add a form

- Add the heading and paragraph as given.

- Create a form using `<form>`.

- Inside the form, add the following input fields with `<label>` and `<input>`:

  - `Name -> type="text"`
  - `Age -> type="number"`
  - `Email -> type="email"`

- Add a **submit button** using `<input type="submit" value="Submit">`.

- Use **line breaks `<br>`** to separate the inputs for clarity.

`https://www.w3schools.com/html/html_forms.asp`

```
<!--h-->

<h2>Traveler Information</h2>

<p>Please enter your details:</p>

<form>
    <label for="name">Name:</label><br>
    <input type="text" id="name" name="name"><br><br>

    <label for="age">Age:</label><br>
    <input type="number" id="age" name="age"><br><br>

    <label for="email">Email:</label><br>
    <input type="email" id="email" name="email"><br><br>

    <input type="submit" value="Submit">
</form>
```

i. Add a horizontal line.

`https://www.w3schools.com/tags/tag_hr.asp`

```
<!--i-->
<hr>
```

j. Add a footer

- Add a `<footer>` section **at the bottom of the web page**, just before the closing `</body>` tag.

- Inside the footer, add a paragraph.

- Display the text: **Student Name:** followed by the student's own name.

```
<!--j-->
<footer>
    <p>Created by: Kamal Perera</p>
</footer>
</body>
</html>
```

In-class-test – HTML Fundamentals

1. After the main heading (`<h1>`), add a paragraph that introduces the web page. The paragraph must:
   - Be written using the `<p>` tag.
   - Use `<b>` for bold text and `<i>` for italic text.
   - Be relevant to the given topic.
   - Don't use CSS or classes.

2. Group the image and the hyperlink using a `<div>` tag. Write a HTML comment above the `<div>` tag to explain its purpose.

3. Improve the **Trip Cost Overview** table by adding an extra column named **'Included Items'**.

4. Inside the **Included Items** column, add a bullet list with at least **two items**.