

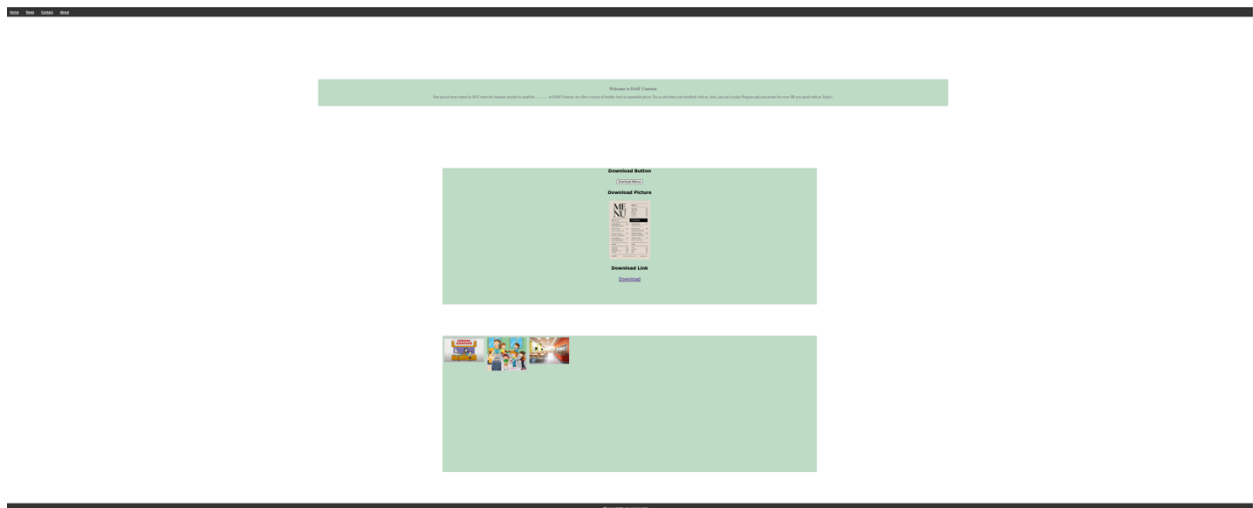
## More about HTML and CSS

### Lab Assignment 1

#### Learning Objectives:

- Using div tag
- Top Navigation Bar
- Download Function
- Adding effects to pictures when Hovering

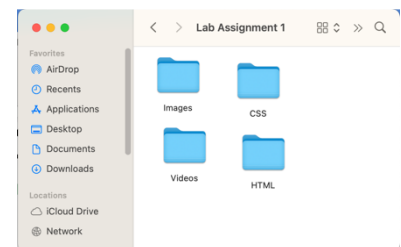
In this lab, you will implement the following page:



#### Step 1:

1) Create the following folders:

- Images
- HTML
- CSS
- Videos
- Downloads
- Lab Assignment 1



2) Place all the newly created folders in Lab Assignment 1

Lab Assignment 1

- 3) Download all the pictures and pdf file from BB. Places all of them in the appropriate folder.

Step 2: HTML Code

- 1) In the <head>, link the style sheet to your webpage by adding the following:

```
<head>
    <link rel="stylesheet" type="text/css" href="../CSS/style.css">
</head>
```

- 2) Top Navigation Bar:

```
<div class="topnav">
  <a href="index.html">Home</a>
  <a href="news.html">News</a>
  <a href="contact.html">Contact</a>
  <a href="about.html">About</a>
</div>
```

- 3) Adding Content:

```
<div class = Paragraph>
<h3>Welcome to DAH' Canteen</h3>
<p>Our special story started in 2012 when the founders decided to establish ..... At DAH' Canteen, we offer a variety of healthy food at reasonable prices. Try us and share your feedback with us. Also, join our Loyalty Program and earn points for every SR you spend with us. Enjoy!</p>
</div>
```

```
<div class="downloads">
<h4>Download Button</h4>
<a href="../Downloads/menu.pdf" download>
  <button>Download Menu</button>
</a>
<h4>Download Picture</h4>
<a href="../Downloads/menu.pdf" download>
  <img src = "../Images/menu.jpeg">
</a>
<h4>Download Link</h4>
<a href="../Downloads/menu.pdf" download>
  Download</a>
</div>
```

As we learnt, you can use the <a> to create links when hovering the mouse over an element. You can use the download property to make the content of this link downloadable.

```
<div class = "pictures">

<div class="gallery">
  <a href="../Images/canteen2.jpeg">
    
  </a>
</div>
```

We will place all the pictures in the gallery class. Each image will be opened in a new window when we click on it. Therefore, we added the <a>

## More about HTML and CSS

### Lab Assignment 1

```
<div class="gallery">
  <a href="../Images/canteen3.jpeg">
    
  </a>
</div>

<div class="gallery">
  <a href="../Images/canteen1.jpeg">
    
  </a>
</div>
</div>
```

We would like to change the opacity of this picture when hovering the mouse over it. Therefore, just give the image a class so we can add styling effect

#### 4) Adding Footer and closing all opened tags:

```
<footer>
  <p>All copyrights are reserved to .....</p>
</footer>
</body>
</html>
```

### Step 3: Styling the webpage:

#### 1) Top Navigation Bar

```
body{
  font-family: Verdana;
  font-size: 20px;
  text-align: center;
}
```

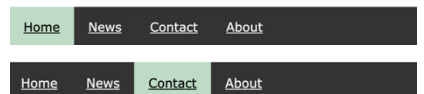
```
/* Top Navigation bar */
.topnav {
  background-color: #333;
  overflow: hidden;
}
```

```
/* Style the links inside the navigation bar */
.topnav a {
  float: left;
  color: #f2f2f2;
  text-align: center;
  padding: 14px 16px;
  font-size: 14px;
  font-family: verdana;
}
```

In the .topnav class: we added the links of other pages using <a>. To display the links in the left side, assign the value left to the float attribute.

```
/* Change the color of links on hover */
.topnav a:hover {
  background-color: #ddd;
  color: black;
}
```

We would like to change the color of the text in <a> when hovering the mouse over them. To make hovering effects, add **:hover** and add the effects you want to apply between the curly braces.



## Lab Assignment 1

### 2) Main Paragraph

```
.paragraph{
    width: 50%;
    position: static;
    margin-top: 5%;
    margin-bottom: 2.5%;
    margin-left: 25%;
    margin-right: 25%;
    color: gray;
    font-size: 16px;
    font-family: vardana;
    background-color: #bddbc5;
    padding-top: 15px;
    padding-bottom: 15px;
    padding-right: 15px;
    padding-left: 15px;
}
```

*Margin attribute controls the external space between the elements.  
Padding attribute controls the internal space between the element and its content.*

Home News Contact About

Welcome to DAH' Canteen

Our special story started in 2012 when the founders decided to establish ..... At DAH' Canteen, we offer a variety of healthy food at reasonable prices. Try us and share your feedback with us. Also, join our Loyalty Program and earn points for every SR you spend with us. Enjoy!

*This empty space is controlled by the margin attribute*

*This empty space is controlled by the padding attribute*

### 3) Styling the downloads section

```
.pictures{
    background-color: #bddbc5;
    width: 30%;
    height: 600px;
    margin-left: 35%;
    margin-right: 35%;
    margin-top: 2.5%;
    margin-bottom: 2.5%;
    position: initial;
    padding-bottom: 20px;
}
```

### 4) Styling the photo gallery

```
.downloads{
    background-color: #bddbc5;
    position: initial;
    margin-bottom: 2.5%;
    margin-top: 2.5%;
    width: 30%;
    height: 600px;
    margin-left: 35%;
    margin-right: 35%;
    padding-bottom: 20px;
}
```

### 5) Adding Effects to the image gallery when hovering the mouse

```
div.gallery {
    margin: 5px;
    border: 1px solid #ccc;
    float: left;
    width: 180px;
}
```

*/\* a border is displayed when hovering over pictures\*/*

```
.gallery:hover {
    border: 3px solid #777;
}
```

*A solid border is displayed when hovering the mouse over all pictures*

Lab Assignment 1

```
/*opacity of some pictures is changed when hovering the mouse over them*/  
.gallery:hover .images{  
  opacity: .5;  
}  
.gallery img {  
  width: 100%;  
  height: auto;  
}
```

The third picture has an opacity effect when hovering the mouse over it. We used the `images` class that we previously defined in the HTML code.

6) Styling Footer

```
footer{  
  background-color: #333;  
  width: 100%;  
  margin-top: auto;  
}  
footer p {  
  color: white;  
  text-align: center;  
  font-size: 14px;  
  font-family: verdana;  
}
```

**Submission:**

- 1) Implement all the previous steps and paste a screenshot of your code and the result.
- 2) Add 3 more pages: *News*, *Contact*, and *About*.
  - a. You have the freedom to add what you want in *News* and *About* pages. The only requirement is that they must be linked to the style sheet. Your page must have a different content and design compared to your classmates.
  - b. In *Contact* page, do the followings:
    - i. Use at least `<form>` and `<table>` tags. You should take some information from the user using the form and table tags. Once the user clicks on Submit button. In addition to the form, you should also give the user the option of sending a direct email to the website owner. Use `<a>` and `mailto` for this purpose.
- 3) Links of all pages in the header must be linked to each other.
- 4) Upload your website and post the link in the submission file. There are a plenty of available free hosts and you can use any of the *suggested websites in the following link*:

<https://www.geeksforgeeks.org/7-best-sites-for-free-web-hosting/>

You can follow the steps in the YouTube link if you decided to publish on 000websitehost

<https://www.youtube.com/watch?v=5WacVyiOU7E>

You are not allowed to use external CSS libraries and codes from the Internet. All the tasks must be implemented from scratch.

You are not allowed to complete this assignment in groups. Note that any plagiarized submission will be awarded ZERO