

Web Application Development

LAB 3: HTML Essentials

Main objectives

At the end of this activity, students should be able to:

- Insert and manage images using appropriate attributes
- Build ordered and unordered lists and create hyperlinks to web pages
- Design and format tables, including cell merging
- Develop basic HTML forms for user input

Exercise 1:

- 1) Create a Simple Page 'images.html'

```
<!DOCTYPE html>
<html>
<head>
</head>
<body>
<h1>My First Image</h1>
</body>
</html>
```

- 2) The title should be 'Images in HTML'
- 3) Insert an Image using this code:

NB: the image should be in same folder or mention the space
- 4) What is the role of the attribute **alt**
- 5) Is the tag a paired tag or self-closing tag?
- 6) Modify your image by adding the attributes:
 - width = "200"
 - height = "200"
- 7) Add a title to the image using the attribute **title**
- 8) What is the difference between **alt** and **title**?

Exercise 2:

- 1) Create a Simple Page 'Lists.html'

```
<!DOCTYPE html>
<html>
<head>
<title>My Lists</title>
</head>
<body>
<h1>My Lists</h1>
</body>
</html>
```

- 2) Add the following elements to your webpage: (use the , , and tags)
 - Create an unordered list of your favorite programming languages.
 - Create an ordered list explaining the steps to build a dynamic website.

Exercise 3: In the end of the code of Exercise2 add a link to your university website.

```
<h3>My university Website</h3>
<p>Visit <a href="https://www.univ-msila.dz" target="_blank">MSila Univeristy</a>
to learn something new. </p>
```

Exercise 4:

Create a table to display a list of products in a store. The table should include columns such as Product Name, Price, and Quantity. Use the <table>, <tr>, <th>, and <td> tags.

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Product Table</title>
</head>
<body>
<h1>Store Products</h1>
<table border="1">
  <tr>
    <th>Product Name</th>
    <th>Price</th>
    <th>Quantity</th>
  </tr>
  <tr>
    <td>Laptop</td>
    <td>1200$</td>
    <td>10</td>
  </tr>
  <tr>
    <td>Notebook</td>
    <td>3$</td>
    <td>50</td>
  </tr>
</table>
</body>
</html>
```

Exercise 5:

- 1) Create a table that demonstrates cell merging using colspan and rowspan.

```
<h3>Course Information</h3>
<table border="1">
<tr>
  <th colspan="2">Course Title</th>
  <th>Semester</th>
</tr>
<tr>
  <td rowspan="2">Web Development</td>
  <td>Theory</td>
  <td>Semester 1</td>
</tr>
<tr>
  <td>Practical Lab</td>
  <td>Semester 2</td>
</tr>
</table>
```

Exercise 6:

Create a registration form with the following fields:

- Full Name (text input)
- Email (email input)
- Password (password input)
- Gender (radio buttons)
- Country (dropdown list)
- Comments (textarea)
- Submit button

```
<h3>Registration Form</h3>
<form>
  <label for="fullname">Full Name:</label><br>
  <input type="text" id="fullname" name="fullname"><br><br>
  <label for="email">Email:</label><br>
  <input type="email" id="email" name="email"><br><br>
  <label for="password">Password:</label><br>
  <input type="password" id="password" name="password"><br><br>
  <label>Gender:</label><br>
  <input type="radio" id="male" name="gender" value="male">
  <label for="male">Male</label><br> <input type="radio" id="female" name="gender"
  value="female">
  <label for="female">Female</label><br><br>
  <label for="country">Country:</label><br>
  <select id="country" name="country">
    <option value="usa">United States</option>
    <option value="canada">Canada</option>
    <option value="uk">United Kingdom</option>
  </select><br><br>
  <label for="comments">Comments:</label><br>
  <textarea id="comments" name="comments" rows="4" cols="50"></textarea><br><br>
  <input type="submit" value="Register">
</form>
```