

EXPT 6 – DOM and DOM Tree Manipulation

CODE

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>To-Do List</title>

  <style>

    body {

      font-family: Arial, sans-serif;

    }

    ul {

      list-style-type: none;

      padding: 0;

    }

    li {

      margin-bottom: 5px;

    }

    .completed {

      text-decoration: line-through;

    }

  </style>

</head>

<body>

  <h1>To-Do List</h1>

  <input type="text" id="taskInput" placeholder="Enter task">

  <button onclick="addTask()">Add Task</button>

  <ul id="taskList"></ul>

  <script>

    function addTask() {

      var taskInput = document.getElementById("taskInput");

      var taskText = taskInput.value.trim();

      if (taskText === "") {

        alert("Please enter a task!");

        return;

      }

    }

  </script>

</body>

</html>
```

```
}

var listItem = document.createElement("li");

var checkBox = document.createElement("input");

checkBox.type = "checkbox";

checkBox.addEventListener("change", toggleCompleted);

var taskLabel = document.createElement("span");

taskLabel.textContent = taskText;

var editButton = document.createElement("button");

editButton.textContent = "Edit";

editButton.addEventListener("click", editTask);

var deleteButton = document.createElement("button");

deleteButton.textContent = "Delete";

deleteButton.addEventListener("click", deleteTask);

listItem.appendChild(checkBox);

listItem.appendChild(taskLabel);

listItem.appendChild(editButton);

listItem.appendChild(deleteButton);

document.getElementById("taskList").appendChild(listItem);

taskInput.value = "";

}
```

```
function toggleCompleted(event) {

    var taskLabel = event.target.nextSibling;

    if (event.target.checked) {

        taskLabel.classList.add("completed");

    } else {

        taskLabel.classList.remove("completed");

    }

}
```

```
function deleteTask(event) {

    event.target.parentNode.remove();

}
```

```
function editTask(event) {

    var listItem = event.target.parentNode;

    var taskLabel = listItem.querySelector("span");
```

```

var updatedTask = prompt("Edit task:", taskLabel.textContent);

if (updatedTask !== null && updatedTask.trim() !== "") {
    taskLabel.textContent = updatedTask.trim();
}
}

</script>
</body>
</html>

```

OUTPUT

To-Do List

☐ task1

☐ task2

To-Do List

☒ task1

☐ task2

To-Do List

☒ task1

☐ task2

127.0.0.1:5500 says

Edit task:

To-Do List

☒ task1

☐ task2

127.0.0.1:5500 says

Edit task:

To-Do List

☒ task1

☐ task2modified

To-Do List

☒ task1

EXPT 7 – jQuery

1. Change Button Color

CODE

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Change Color Button</title>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

<style>

.btn {

padding: 10px 20px;

font-size: 16px;

cursor: pointer;

}

</style>

</head>

<body>


<button id="colorBtn" class="btn">Change color</button>


<script>

$(document).ready(function() {

$('#colorBtn').mouseover(function() {

$(this).css('color', 'red');

$(this).css('background-color', 'white');

});

$('#colorBtn').mouseout(function() {

$(this).css('color', 'white');

$(this).css('background-color', 'green');

});

});

</script>

</body>
```

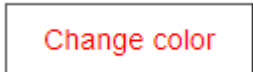
</html>

OUTPUT

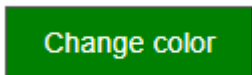
1. Default:



2. Mouse Over



3. Mouse Out



2. Insert Elements

CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>jQuery Inserting Elements</title>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<style>
.container {
    border: 1px solid #ccc;
    padding: 10px;
    margin-bottom: 10px;
}
</style>
</head>
```

```
<body>
```

```
<div class="container">
```

```
<h2>Original Content</h2>
```

```
<p>This is the original paragraph.</p>
```

```
</div>
```

```
<script>
```

```
$(document).ready(function(){
```

```
  $('<div>Before</div>');
```

```
  $('<div>After</div>');
```

```
  $('<p>Prepend</p>');
```

```
  $('<p>Append</p>');
```

```
});
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT

Before

Prepend

Original Content

This is the original paragraph.

Append

After

EXPT 8 – AJAX along with nginx?

CODE

book.html

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Books</title>

</head>

<body>

  <h1>Books</h1>

  <!-- HTML book content -->

  <div id="htmlBooks">

    <h2>HTML Books</h2>

    <div class="book">

      <h3>HTML Book 1</h3>

      <p><strong>Author:</strong> John Doe</p>

      <p><strong>Price:</strong> $20</p>

    </div>

    <div class="book">

      <h3>HTML Book 2</h3>

      <p><strong>Author:</strong> Jane Smith</p>

      <p><strong>Price:</strong> $25</p>

    </div>

    <div class="book">

      <h3>HTML Book 3</h3>

      <p><strong>Author:</strong> Mark Johnson</p>

      <p><strong>Price:</strong> $15</p>

    </div>

  </div>

</body>

</html>
```

book.json

```
{

  "books": [
```

```
{
  "title": "JSON Book 1",
  "author": "Mark Johnson",
  "price": "$15"
},
{
  "title": "JSON Book 2",
  "author": "Emily Brown",
  "price": "$18"
},
{
  "title": "JSON Book 3",
  "author": "David Lee",
  "price": "$20"
}
]
```

book.xml

```
<books>
  <book>
    <title>XML Book 1</title>
    <author>Jane Smith</author>
    <price>$25</price>
  </book>
  <book>
    <title>XML Book 2</title>
    <author>John Smith</author>
    <price>$30</price>
  </book>
  <book>
    <title>XML Book 3</title>
    <author>Alice Johnson</author>
    <price>$22</price>
  </book>
</books>
```


index.html

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Book Data</title>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

<script>

$(document).ready(function() {

    $("#htmlButton").click(function() {

        $.ajax({

            url: "books.html",

            dataType: "html",

            success: function(data) {

                $("#result").html(data);

            }

        });

    });

});

$("#xmlButton").click(function() {

    $.ajax({

        url: "books.xml",

        dataType: "xml",

        success: function(data) {

            var result = "<ul>";

            $(data).find("book").each(function() {

                var title = $(this).find("title").text();

                var author = $(this).find("author").text();

                var price = $(this).find("price").text();

                result += "<li>Title: " + title + ", Author: " + author + ", Price: $" + price + "</li>";

            });

            result += "</ul>";

            $("#result").html(result);

        }

    });

});

});

});
```

```

    });

});

$("#jsonButton").click(function() {
    $.ajax({
        url: "books.json",
        dataType: "json",
        success: function(data) {
            var result = "<ul>";

            $.each(data.books, function(index, book) {
                result += "<li>Title: " + book.title + ", Author: " + book.author + ", Price: $" + book.price + "</li>";
            });

            result += "</ul>";

            $("#result").html(result);
        }
    });
});

});

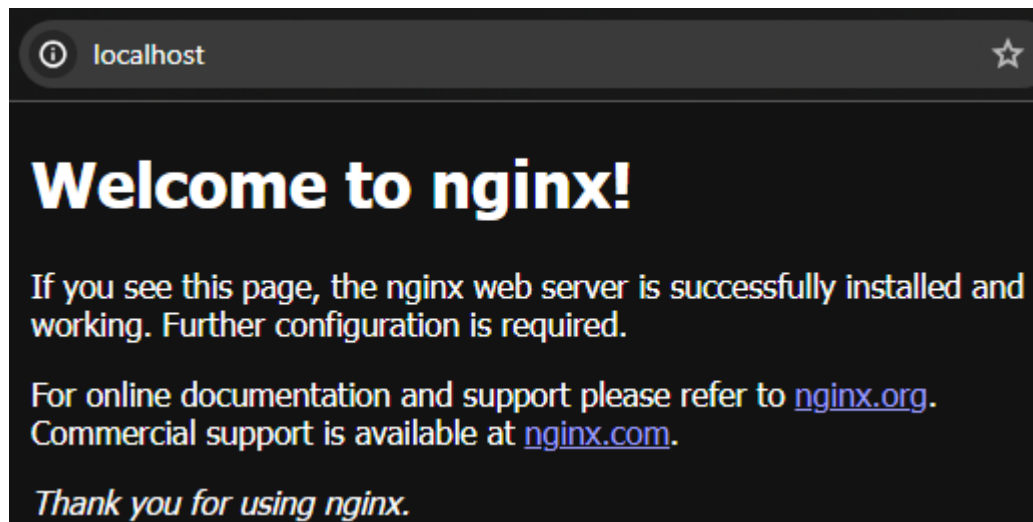
</script>
</head>
<body>

<button id="htmlButton">Load HTML Data</button>
<button id="xmlButton">Load XML Data</button>
<button id="jsonButton">Load JSON Data</button>

<div id="result"></div>

</body>
</html>

```



```
C:\Windows\System32>cd C:\Users\noelm\Documents\PROJECTS\College-Lab-Works\S6 MWA (Modern Web Applications)\Expt8 - AJAX with HTML, XML and JSON data\New\nnginx-1.25.5

C:\Users\noelm\Documents\PROJECTS\College-Lab-Works\S6 MWA (Modern Web Applications)\Expt8 - AJAX with HTML, XML and JSON data\New\nnginx-1.25.5>nginx.exe
```

- Title: JSON Book 1, Author: Mark Johnson, Price: \$15
- Title: JSON Book 2, Author: Emily Brown, Price: \$18
- Title: JSON Book 3, Author: David Lee, Price: \$20

- Title: XML Book 1, Author: Jane Smith, Price: \$25
- Title: XML Book 2, Author: John Smith, Price: \$30
- Title: XML Book 3, Author: Alice Johnson, Price: \$22

Books

HTML Books

HTML Book 1

Author: John Doe

Price: \$20

HTML Book 2

Author: Jane Smith

Price: \$25

HTML Book 3

Author: Mark Johnson

Price: \$15