Name: Mrunali Katta

Student ID : 017516785

Homework 2

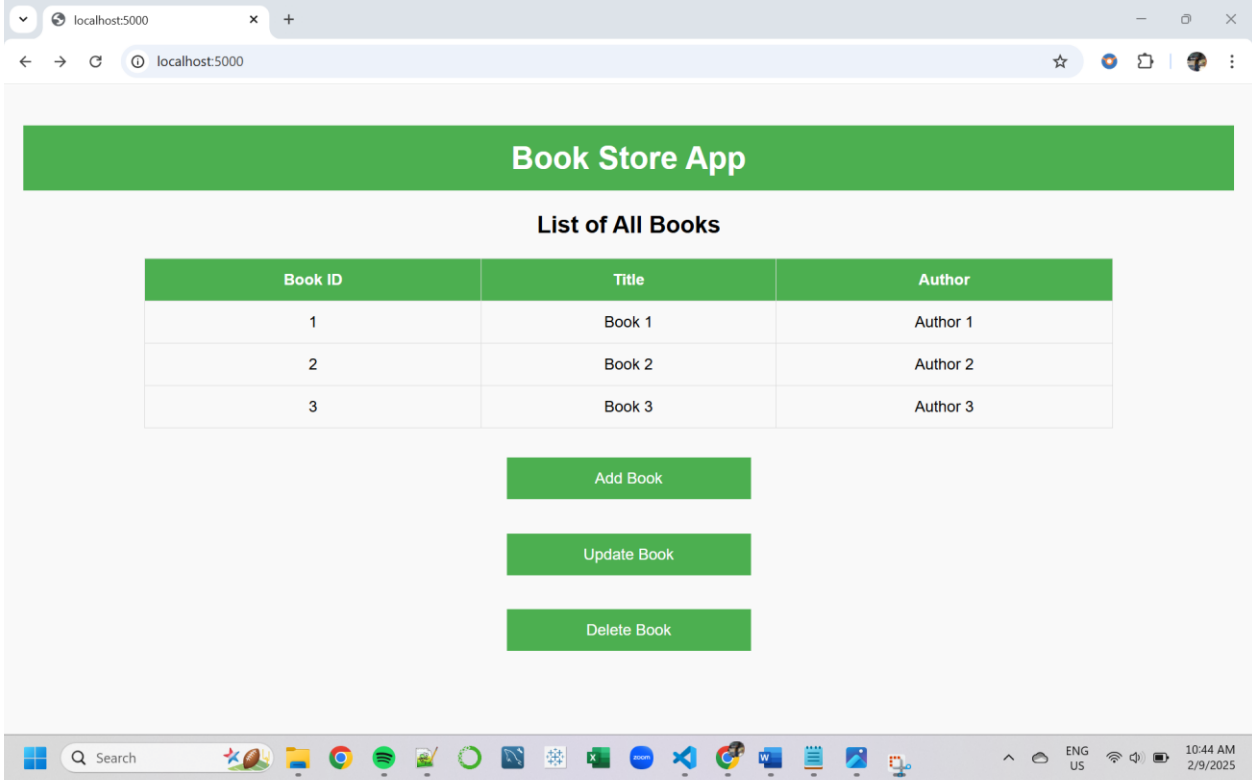
Part 1. HTML & CSS (4 points)

1. Center align all the content present on the home page (i.e the headings, text, buttons, table, etc. everything should be centered). (1 point)
   Here added the center align in **styles.css** on the homepage

styles.css

```css
body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 20px;
    background-color: #f9f9f9;
    text-align: center;             /*Q1-center aligned all content*/
}
```

Center alignment of homepage

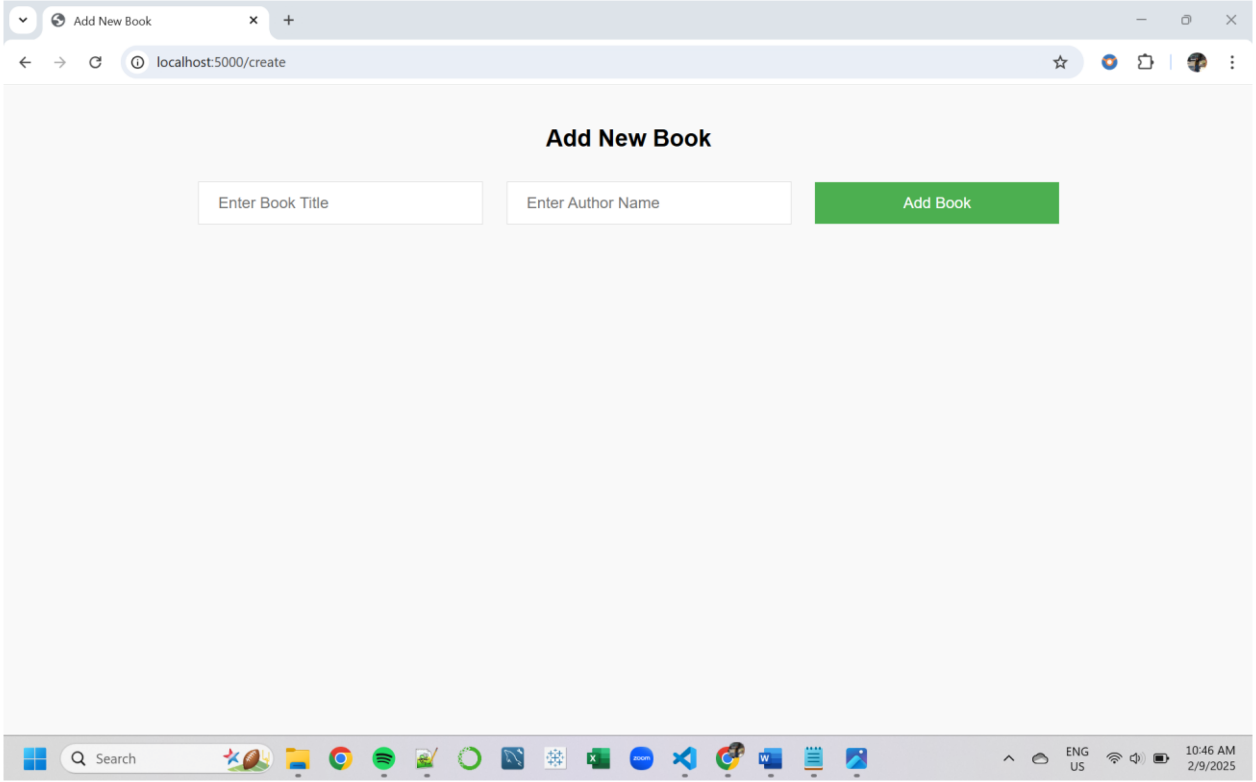


Book Store App

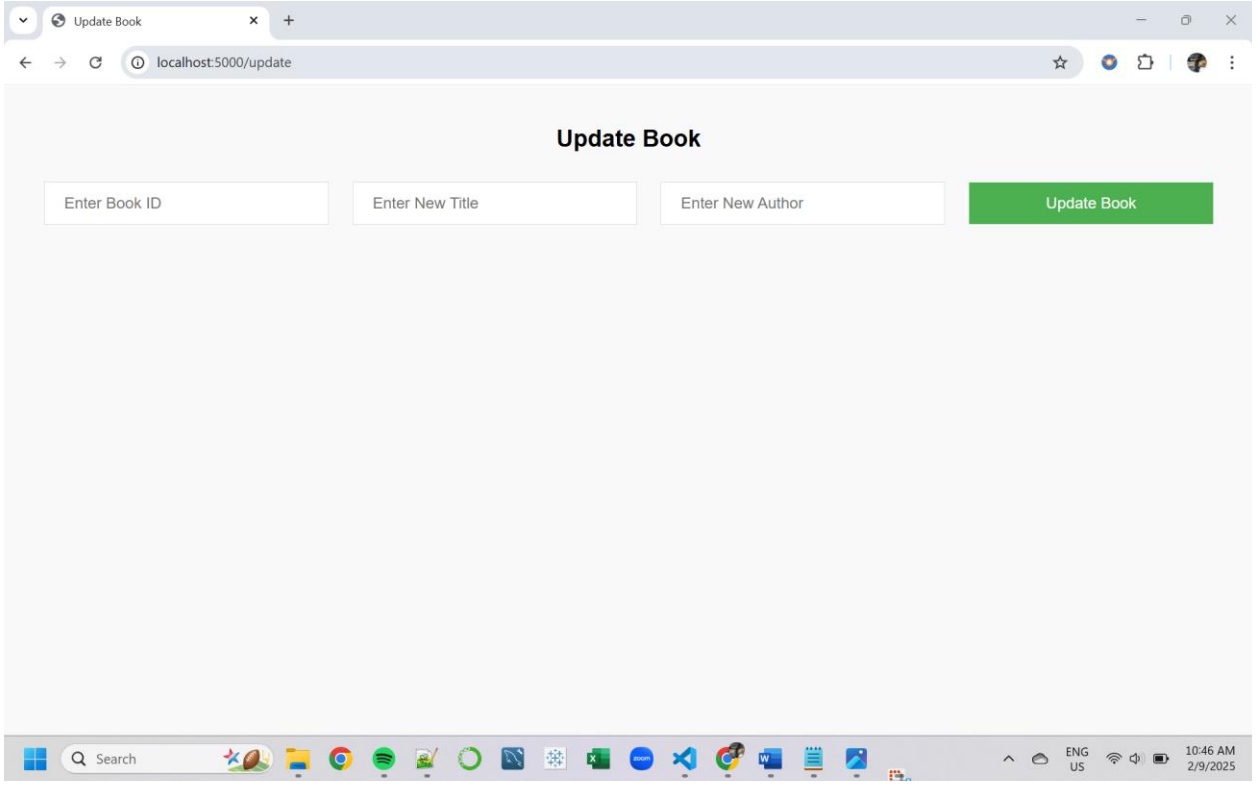
List of All Books

Book ID	Title	Author
1	Book 1	Author 1
2	Book 2	Author 2
3	Book 3	Author 3

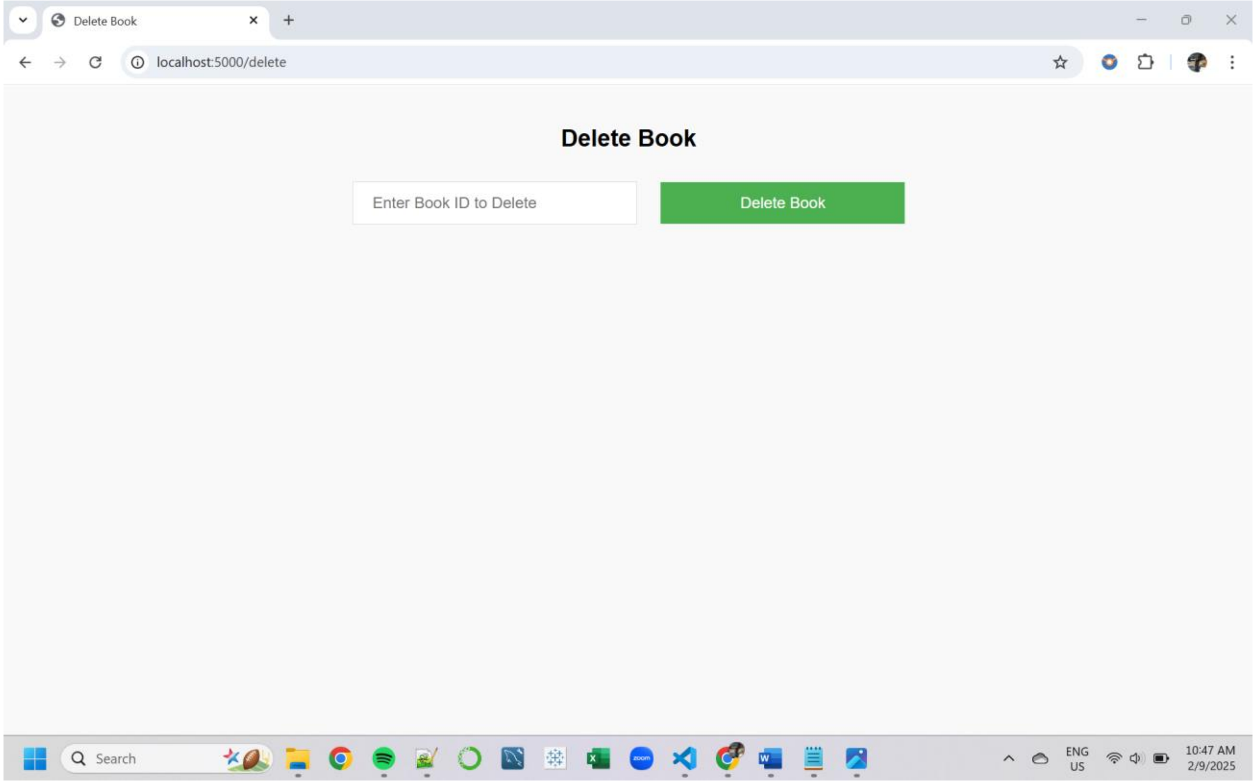
Center alignment of Add New Book Page



Center alignment of Update Book Page

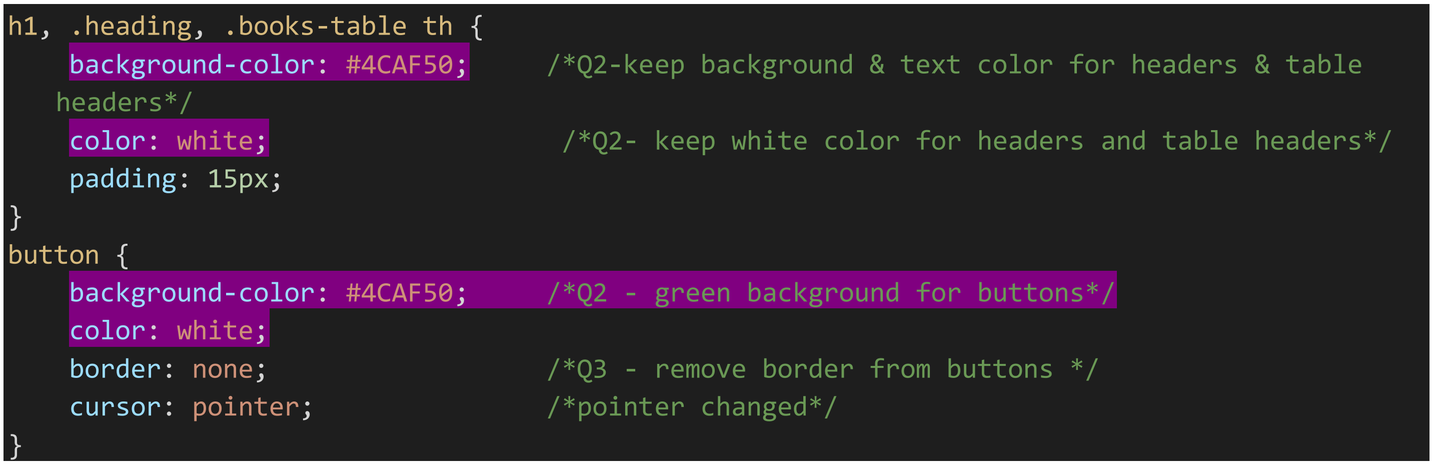


Center alignment of Delete Book Page



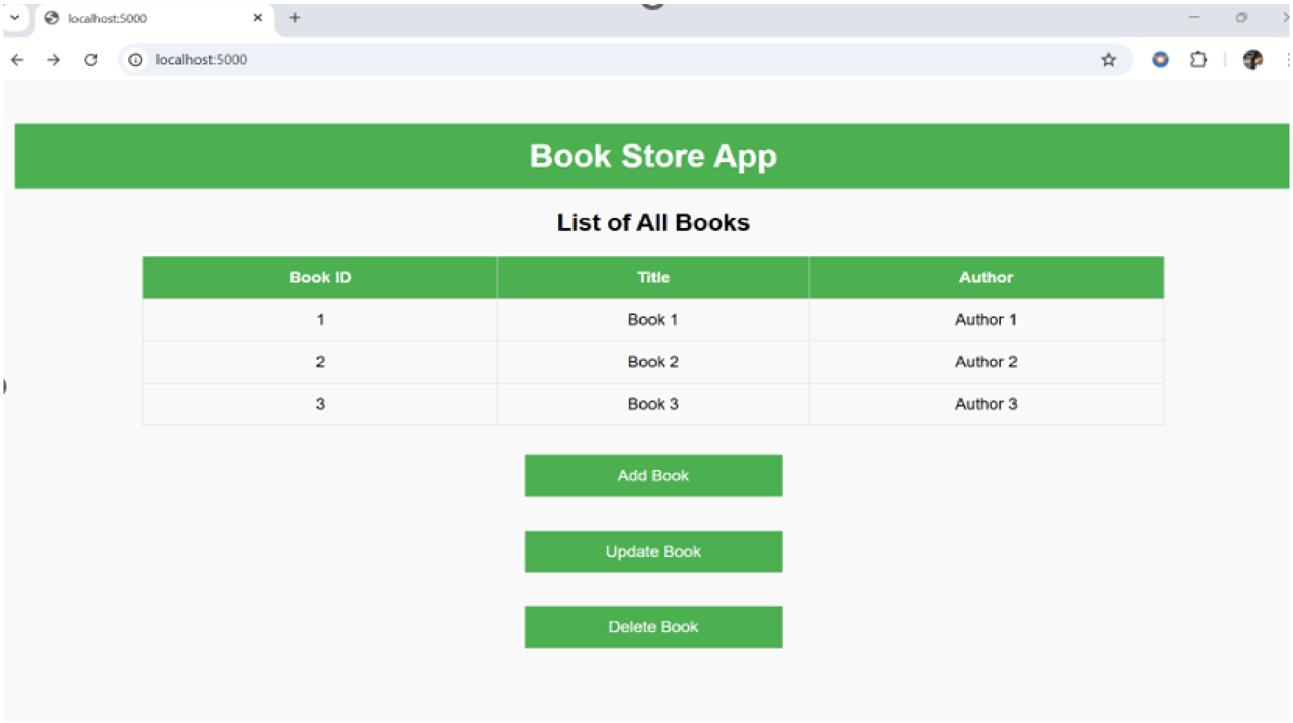
2. Make the background color of the heading, table header, and buttons to ##4CAF50 and set the text color to white for the heading, table header and buttons. (1 point)

styles.css



```
h1, .heading, .books-table th {
    background-color: #4CAF50;     /*Q2-keep background & text color for headers & table
   headers*/
    color: white;                   /*Q2- keep white color for headers and table headers*/
    padding: 15px;
}
button {
    background-color: #4CAF50;     /*Q2 - green background for buttons*/
    color: white;
    border: none;                  /*Q3 - remove border from buttons */
    cursor: pointer;               /*pointer changed*/
}
```

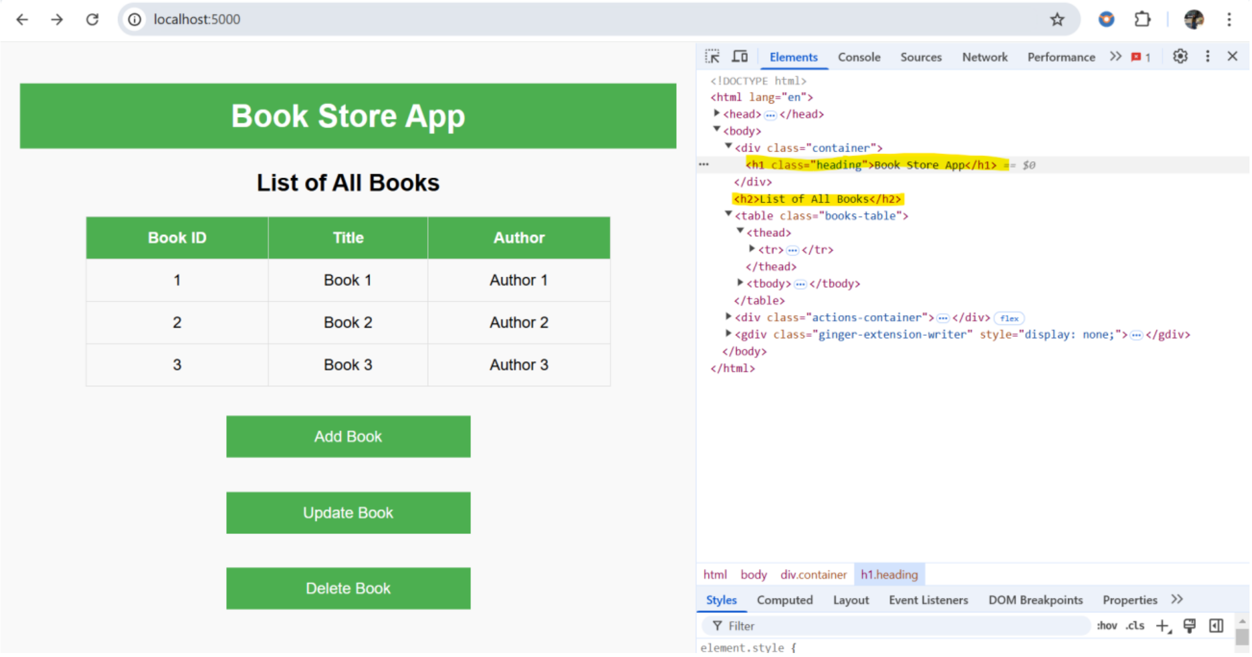
- background for heading, table header, and buttons set to ##4CAF50
- background for heading, table header, and buttons set to white.
- Text Other than heading, table header, and buttons set to black.
- Here “List of All Books”, “Add New Book”, “Update New Book”, “Delete New Book” tags set to <h2> while main heading Book Store App set to <h1>.



Book Store App

List of All Books

Book ID	Title	Author
1	Book 1	Author 1
2	Book 2	Author 2
3	Book 3	Author 3



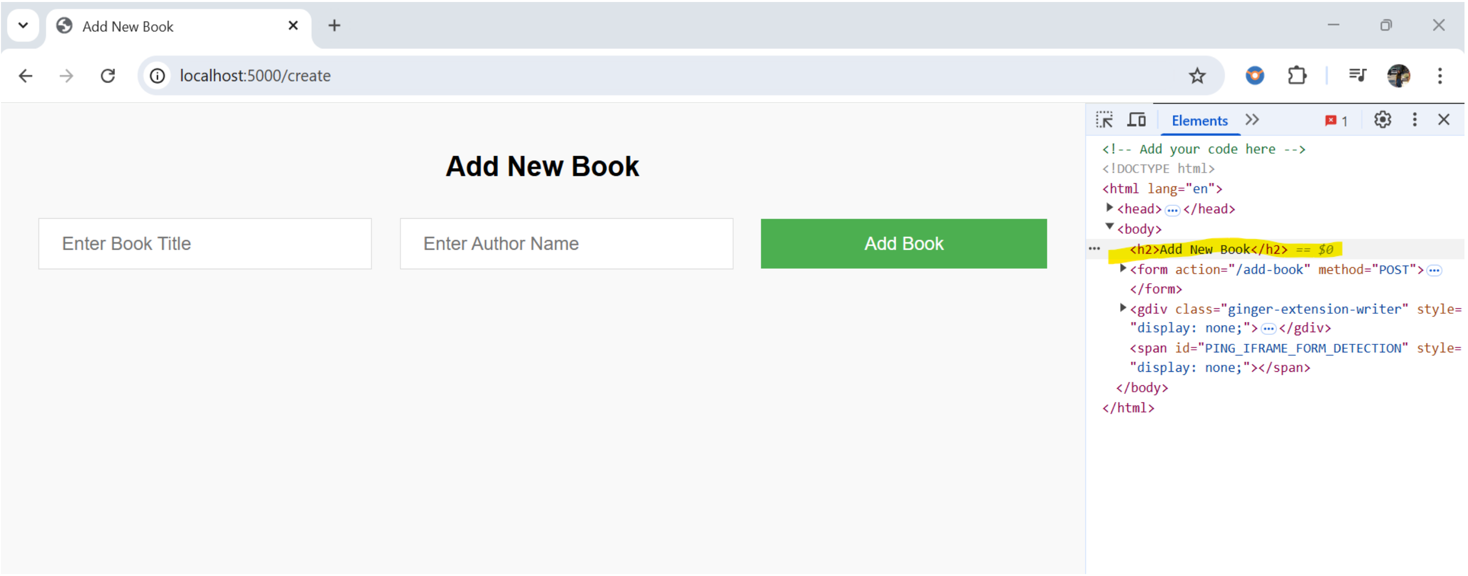
Book Store App

List of All Books

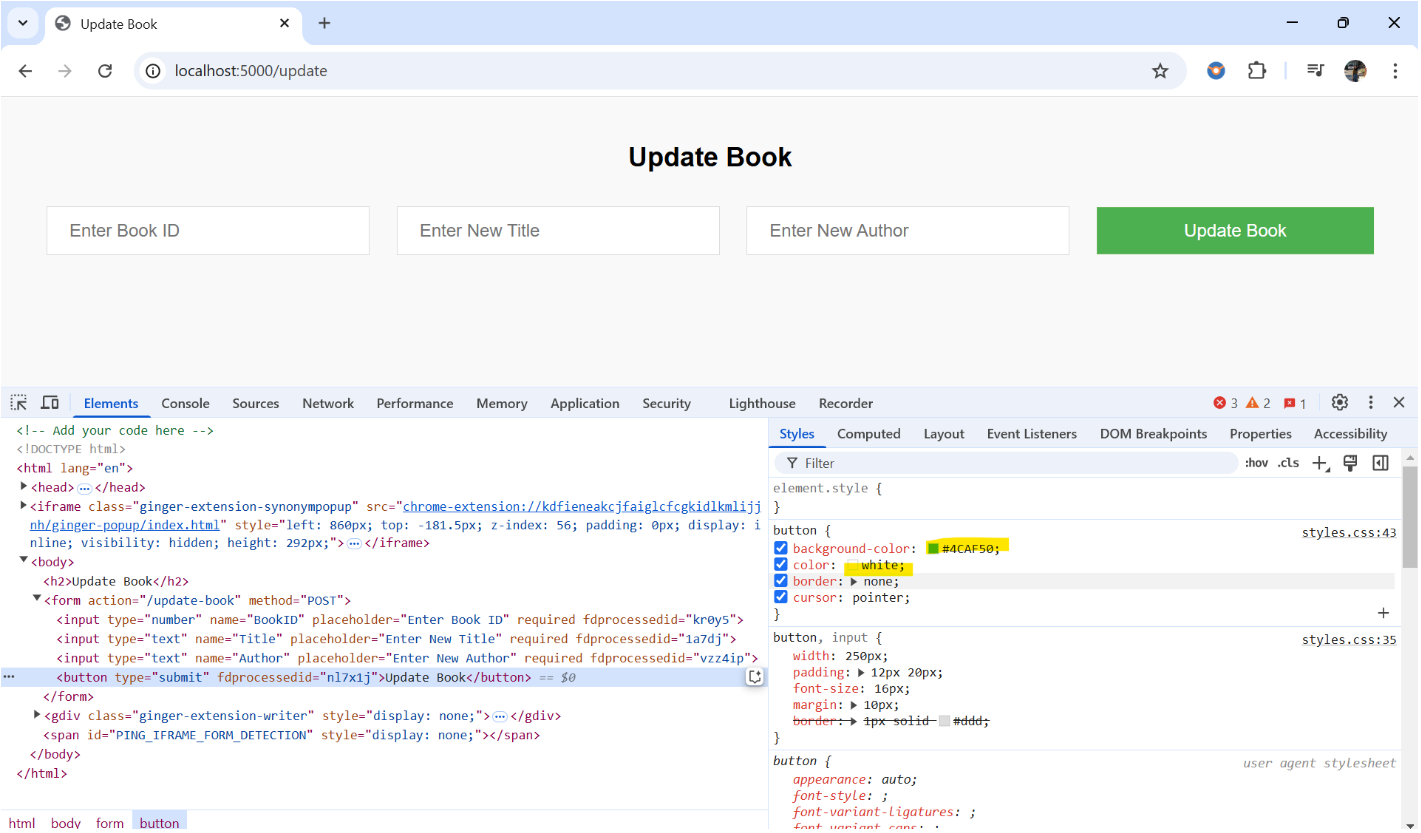
Book ID	Title	Author
1	Book 1	Author 1
2	Book 2	Author 2
3	Book 3	Author 3

```
<!DOCTYPE html>
<html lang="en">
 ▶<head> ··· </head>
 ▼<body>
   ▼<div class="container">
...      <h1 class="heading">Book Store App</h1> == $0
     </div>
     <h2>List of All Books</h2>
   ▼<table class="books-table">
     ▼<thead>
       ▶<tr> ··· </tr>
       </thead>
     ▶<tbody> ··· </tbody>
     </table>
   ▶<div class="actions-container"> ··· </div> flex
   ▶<gdiv class="ginger-extension-writer" style="display: none;"> ··· </gdiv>
   </body>
</html>
```

```
element.style {
```

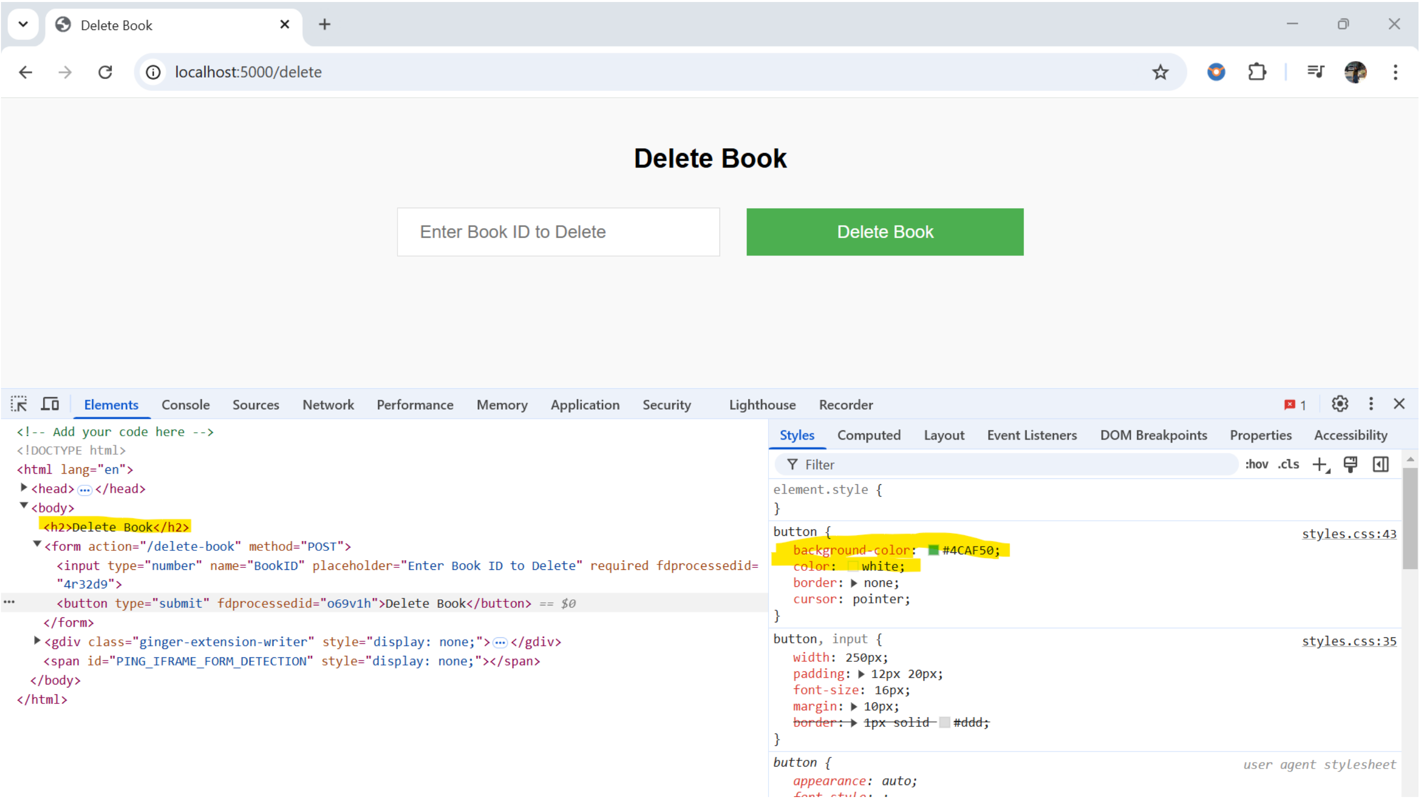


```
<!-- Add your code here -->
<!DOCTYPE html>
<html lang="en">
 ▶<head> ⋯ </head>
 ▼<body>
    <h2>Add New Book</h2> == $0
   ▶<form action="/add-book" method="POST"> ⋯
    </form>
   ▶<gdiv class="ginger-extension-writer" style=
    "display: none;"> ⋯ </gdiv>
    <span id="PING_IFRAME_FORM_DETECTION" style=
    "display: none;"></span>
  </body>
</html>
```



```
<!-- Add your code here -->
<!DOCTYPE html>
<html lang="en">
 ▶<head> ⋯ </head>
 ▶<iframe class="ginger-extension-synonympopup" src="chrome-extension://kdfieneakcjfaiglcfcgkidlkmlijj
  nh/ginger-popup/index.html" style="left: 860px; top: -181.5px; z-index: 56; padding: 0px; display: i
  nline; visibility: hidden; height: 292px;"> ⋯ </iframe>
 ▼<body>
    <h2>Update Book</h2>
   ▼<form action="/update-book" method="POST">
      <input type="number" name="BookID" placeholder="Enter Book ID" required fdprocessedid="kr0y5">
      <input type="text" name="Title" placeholder="Enter New Title" required fdprocessedid="1a7dj">
      <input type="text" name="Author" placeholder="Enter New Author" required fdprocessedid="vzz4ip">
      <button type="submit" fdprocessedid="nl7x1j">Update Book</button> == $0
    </form>
   ▶<gdiv class="ginger-extension-writer" style="display: none;"> ⋯ </gdiv>
    <span id="PING_IFRAME_FORM_DETECTION" style="display: none;"></span>
  </body>
</html>
```

```
element.style {
}
button {                                              styles.css:43
☑ background-color: 🟩 #4CAF50;
☑ color: □ white;
☑ border: ▶ none;
☑ cursor: pointer;
}
button, input {                                       styles.css:35
   width: 250px;
   padding: ▶ 12px 20px;
   font-size: 16px;
   margin: ▶ 10px;
   ~~border: ▶ 1px solid □ #ddd;~~
}
button {                                    user agent stylesheet
   appearance: auto;
   font-style: ;
   font-variant-ligatures: ;
   font-variant-caps: ;
```



```
<!-- Add your code here -->
<!DOCTYPE html>
<html lang="en">
 ▶<head> … </head>
 ▼<body>
    <h2>Delete Book</h2>
   ▼<form action="/delete-book" method="POST">
      <input type="number" name="BookID" placeholder="Enter Book ID to Delete" required fdprocessedid=
      "4r32d9">
...   <button type="submit" fdprocessedid="o69v1h">Delete Book</button> == $0
    </form>
   ▶<gdiv class="ginger-extension-writer" style="display: none;"> … </gdiv>
    <span id="PING_IFRAME_FORM_DETECTION" style="display: none;"></span>
  </body>
</html>
```

```
element.style {
}
button {                                             styles.css:43
   background-color: 🟩 #4CAF50;
   color: □ white;
   border: ▶ none;
   cursor: pointer;
}
button, input {                                      styles.css:35
   width: 250px;
   padding: ▶ 12px 20px;
   font-size: 16px;
   margin: ▶ 10px;
   ~~border: ▶ 1px solid □ #ddd;~~
}
button {                                   user agent stylesheet
   appearance: auto;
```

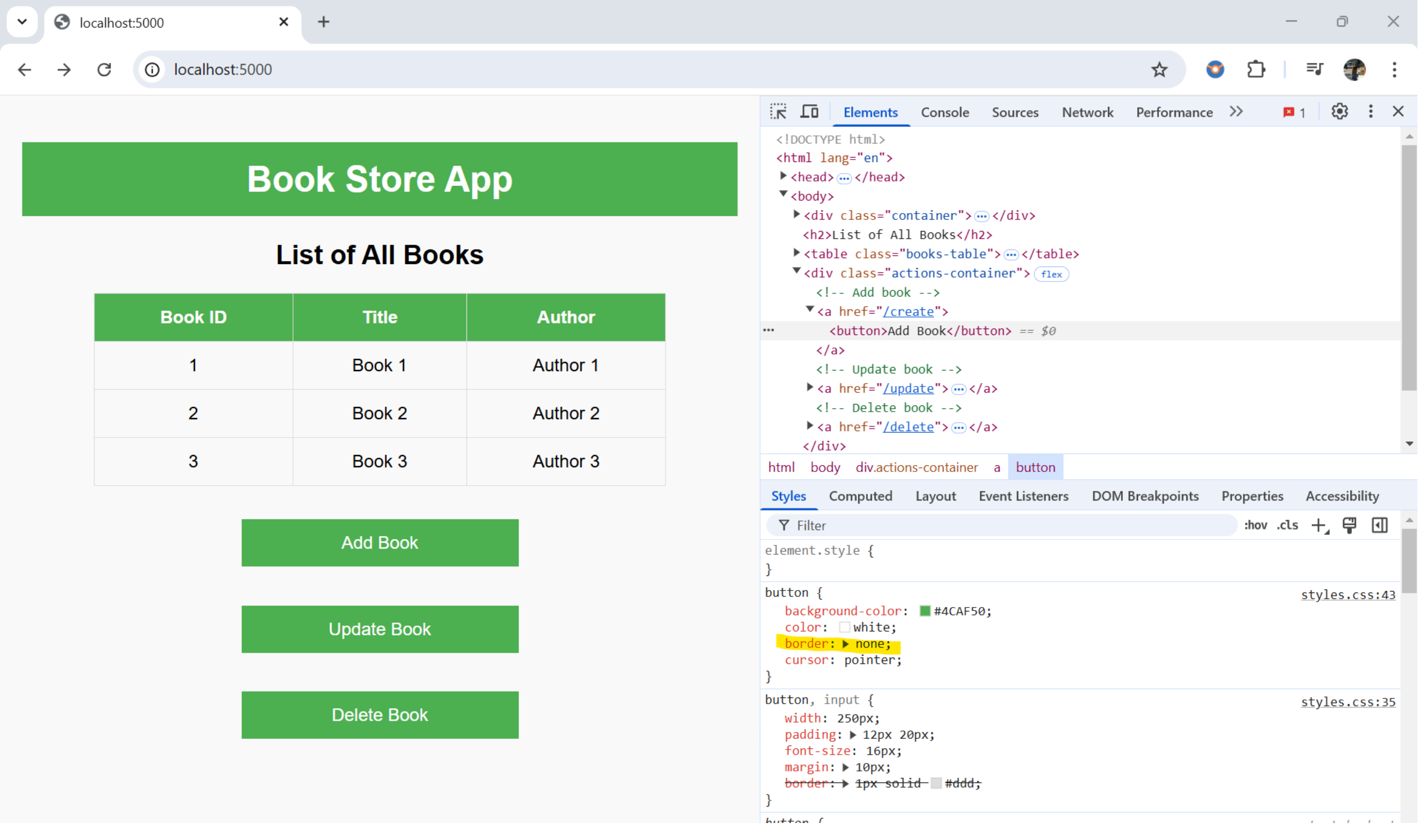
3. Remove any border from the action buttons and change the background of the button to orange on the button’s hover, and set the cursor to pointer on hover of the buttons. (1 point)

styles.css

```
button {
    border: none;                /*Q3 - remove border from buttons */
    cursor: pointer;             /*pointer changed*/
}

button:hover {
    background-color: orange;    /*Q3 - orange on hover*/
}
```

No borders on action button

Add Book button



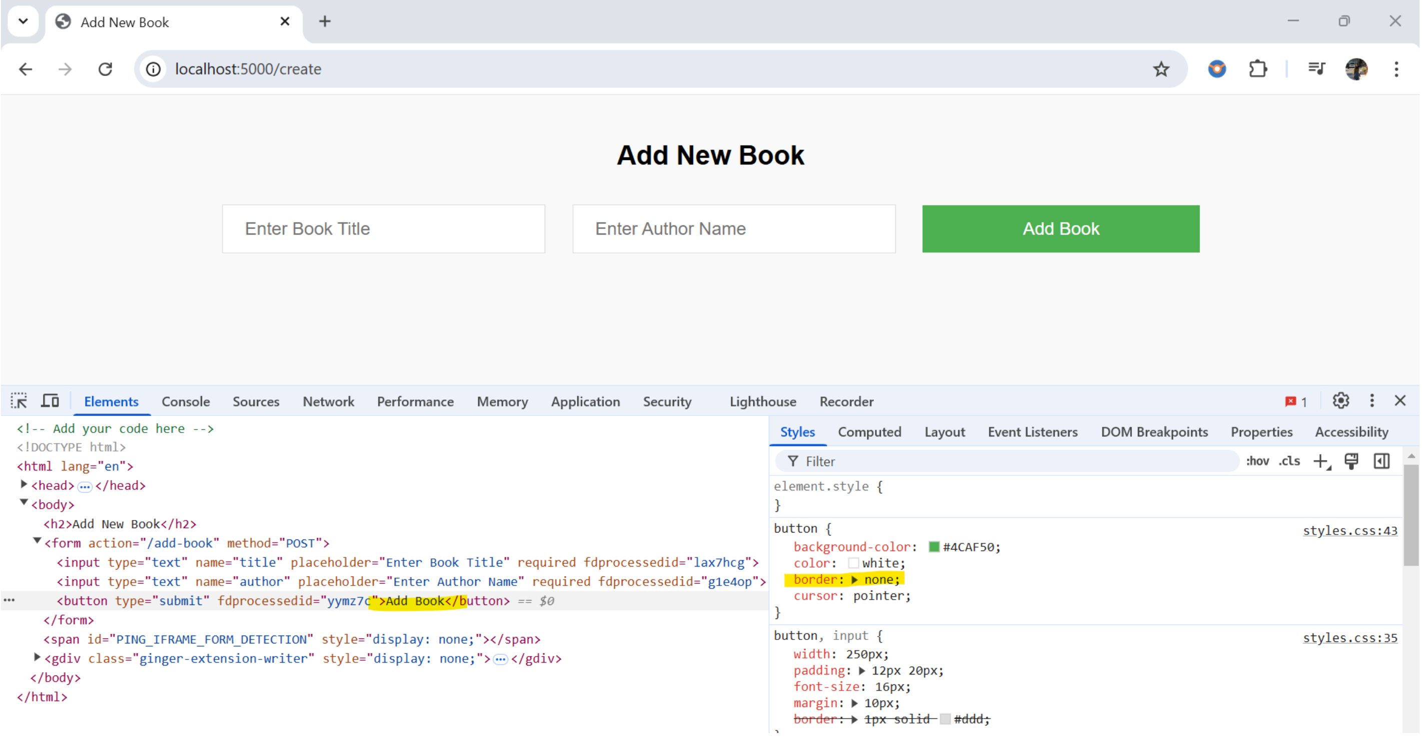
Book Store App

List of All Books

Book ID	Title	Author
1	Book 1	Author 1
2	Book 2	Author 2
3	Book 3	Author 3

```
<!DOCTYPE html>
<html lang="en">
 ▶<head>⋯</head>
 ▼<body>
   ▶<div class="container">⋯</div>
    <h2>List of All Books</h2>
   ▶<table class="books-table">⋯</table>
   ▼<div class="actions-container"> flex
      <!-- Add book -->
     ▼<a href="/create">
        <button>Add Book</button> == $0
      </a>
      <!-- Update book -->
     ▶<a href="/update">⋯</a>
      <!-- Delete book -->
     ▶<a href="/delete">⋯</a>
    </div>
```

```
element.style {
}
button {                                   styles.css:43
  background-color: #4CAF50;
  color: white;
  border: ▶ none;
  cursor: pointer;
}
button, input {                            styles.css:35
  width: 250px;
  padding: ▶ 12px 20px;
  font-size: 16px;
  margin: ▶ 10px;
  ~~border: ▶ 1px solid #ddd;~~
}
```

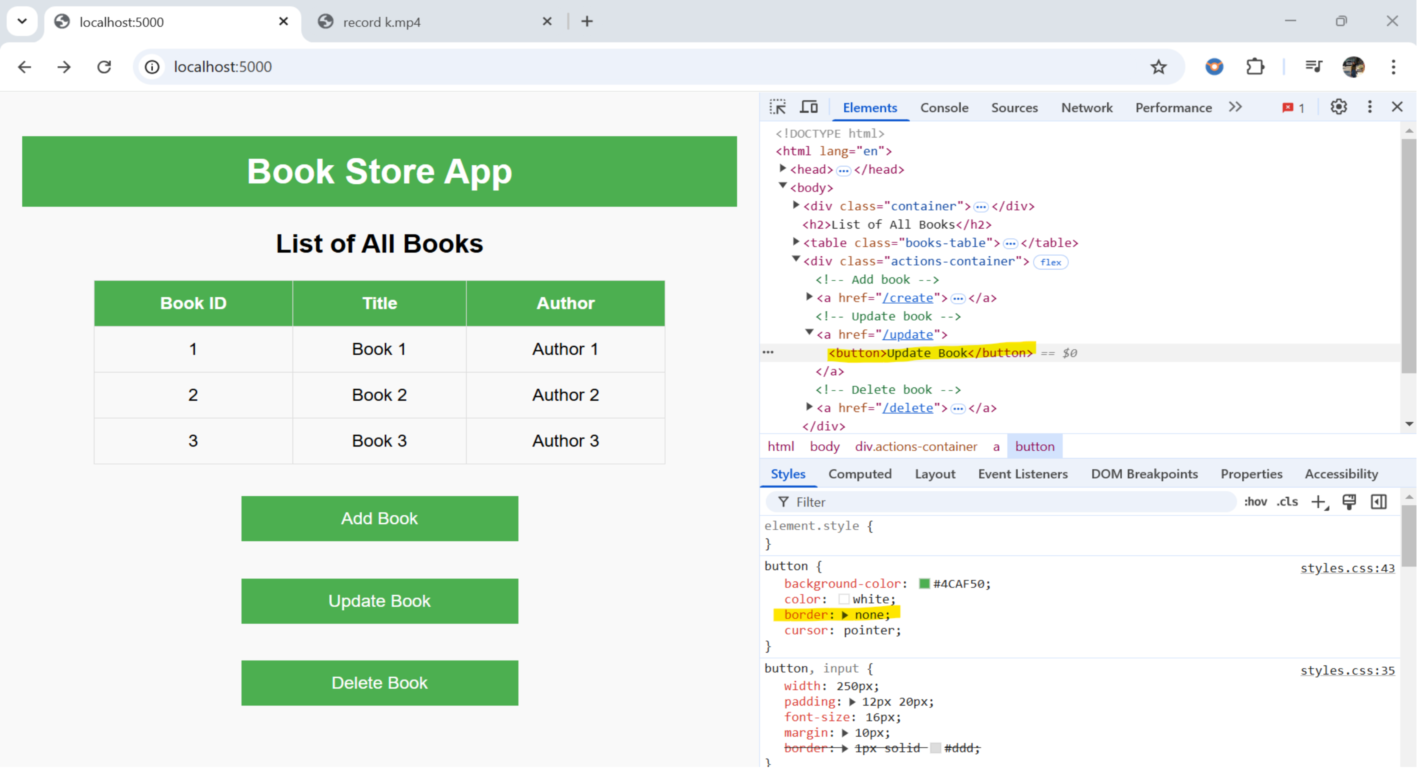


Add New Book

```
<!-- Add your code here -->
<!DOCTYPE html>
<html lang="en">
 ▶<head>⋯</head>
 ▼<body>
    <h2>Add New Book</h2>
   ▼<form action="/add-book" method="POST">
      <input type="text" name="title" placeholder="Enter Book Title" required fdprocessedid="lax7hcg">
      <input type="text" name="author" placeholder="Enter Author Name" required fdprocessedid="g1e4op">
      <button type="submit" fdprocessedid="yymz7c">Add Book</button> == $0
    </form>
    <span id="PING_IFRAME_FORM_DETECTION" style="display: none;"></span>
   ▶<gdiv class="ginger-extension-writer" style="display: none;">⋯</gdiv>
  </body>
</html>
```

```
element.style {
}
button {                                   styles.css:43
  background-color: #4CAF50;
  color: white;
  border: ▶ none;
  cursor: pointer;
}
button, input {                            styles.css:35
  width: 250px;
  padding: ▶ 12px 20px;
  font-size: 16px;
  margin: ▶ 10px;
  ~~border: ▶ 1px solid #ddd;~~
```

Update Book button



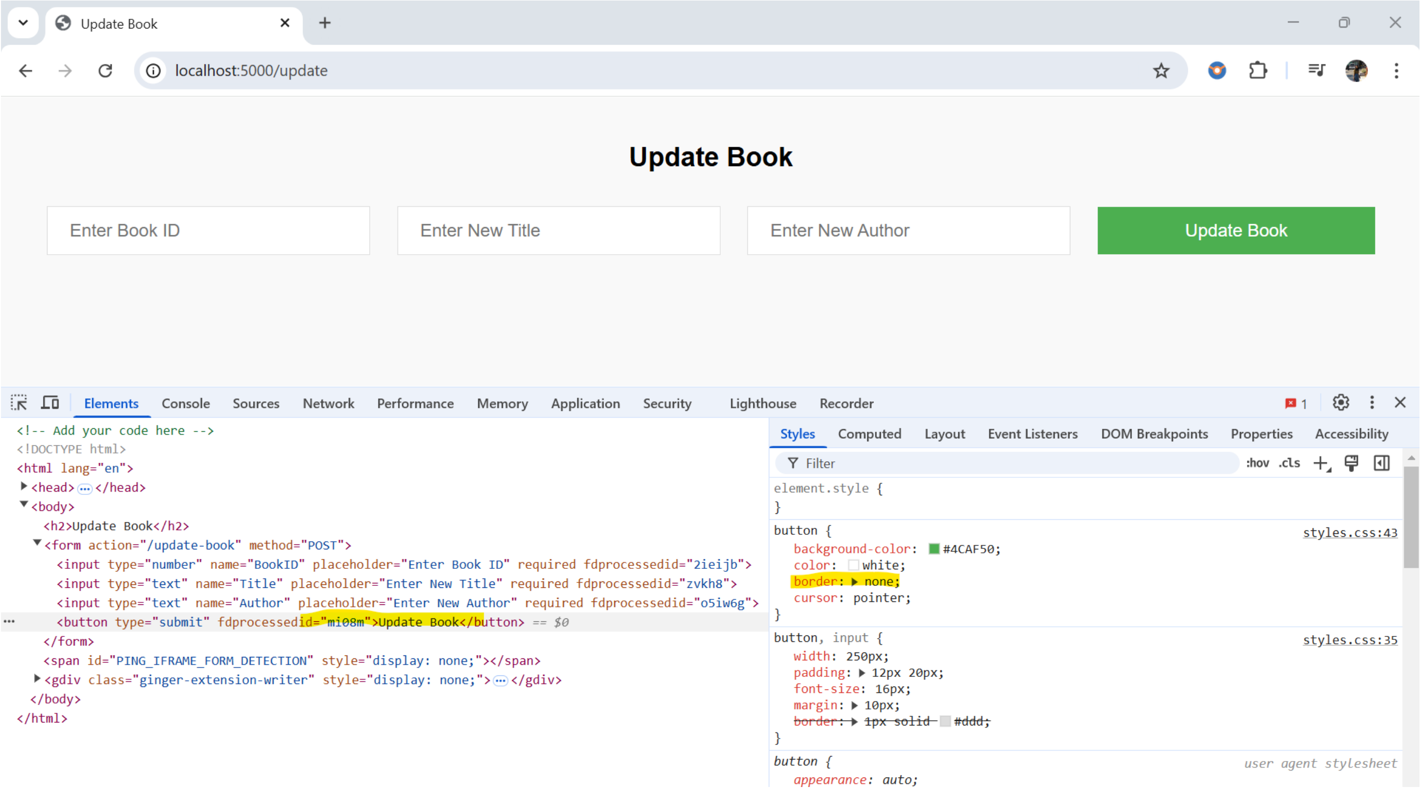
Book Store App

List of All Books

Book ID	Title	Author
1	Book 1	Author 1
2	Book 2	Author 2
3	Book 3	Author 3

```
<!DOCTYPE html>
<html lang="en">
 ▶<head> ⋯ </head>
 ▼<body>
   ▶<div class="container"> ⋯ </div>
    <h2>List of All Books</h2>
   ▶<table class="books-table"> ⋯ </table>
   ▼<div class="actions-container"> flex
      <!-- Add book -->
     ▶<a href="/create"> ⋯ </a>
      <!-- Update book -->
     ▼<a href="/update">
        <button>Update Book</button> == $0
      </a>
      <!-- Delete book -->
     ▶<a href="/delete"> ⋯ </a>
    </div>
```

```
element.style {
}
button {                                         styles.css:43
   background-color: #4CAF50;
   color: white;
   border: ▶ none;
   cursor: pointer;
}
button, input {                                  styles.css:35
   width: 250px;
   padding: ▶ 12px 20px;
   font-size: 16px;
   margin: ▶ 10px;
   ~~border: ▶ 1px solid #ddd;~~
}
```

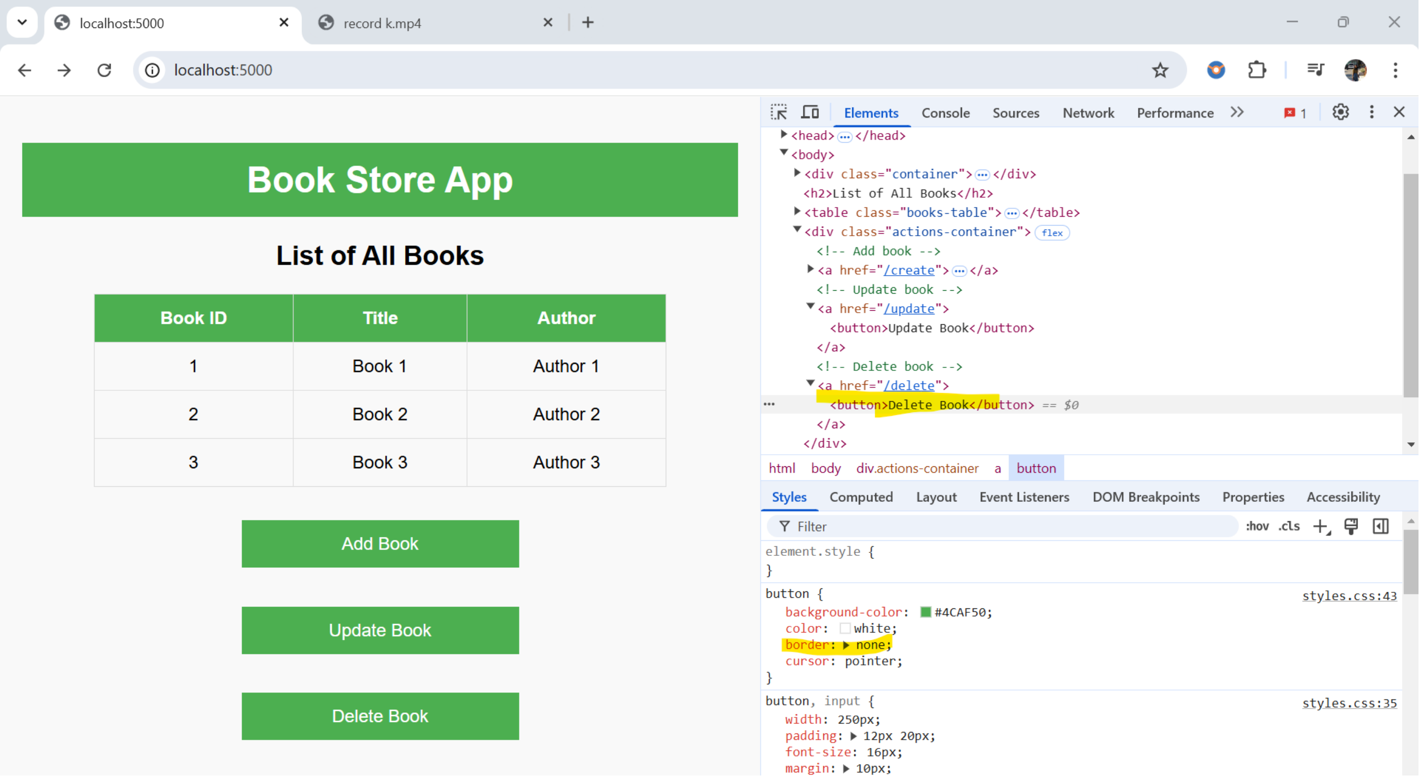


Update Book

```
<!-- Add your code here -->
<!DOCTYPE html>
<html lang="en">
 ▶<head> ⋯ </head>
 ▼<body>
    <h2>Update Book</h2>
   ▼<form action="/update-book" method="POST">
      <input type="number" name="BookID" placeholder="Enter Book ID" required fdprocessedid="2ieijb">
      <input type="text" name="Title" placeholder="Enter New Title" required fdprocessedid="zvkh8">
      <input type="text" name="Author" placeholder="Enter New Author" required fdprocessedid="o5iw6g">
      <button type="submit" fdprocessedid="mi08m">Update Book</button> == $0
    </form>
    <span id="PING_IFRAME_FORM_DETECTION" style="display: none;"></span>
   ▶<gdiv class="ginger-extension-writer" style="display: none;"> ⋯ </gdiv>
  </body>
</html>
```

```
element.style {
}
button {                                         styles.css:43
   background-color: #4CAF50;
   color: white;
   border: ▶ none;
   cursor: pointer;
}
button, input {                                  styles.css:35
   width: 250px;
   padding: ▶ 12px 20px;
   font-size: 16px;
   margin: ▶ 10px;
   ~~border: ▶ 1px solid #ddd;~~
}
button {                                 user agent stylesheet
   appearance: auto;
```

Delete Book button



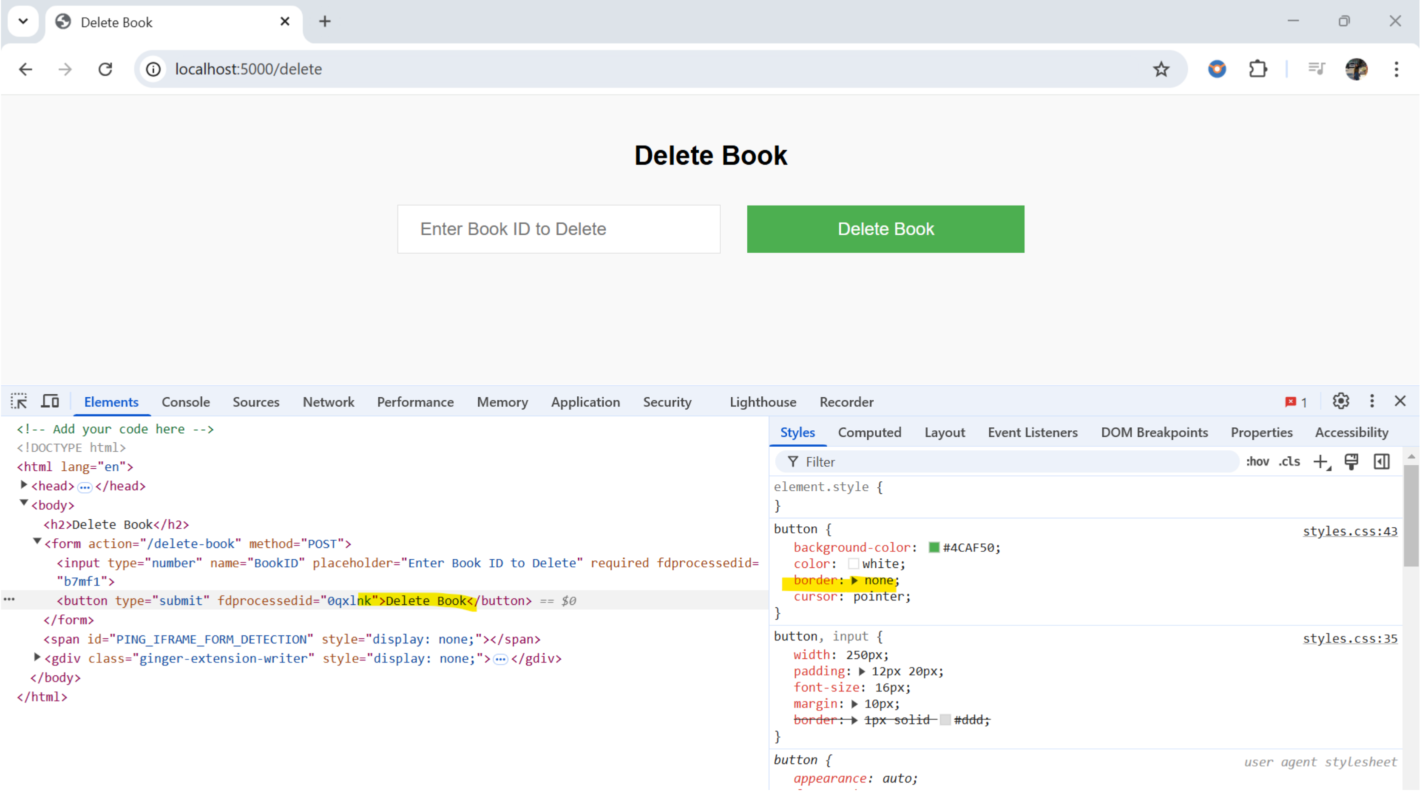
Book Store App

List of All Books

Book ID	Title	Author
1	Book 1	Author 1
2	Book 2	Author 2
3	Book 3	Author 3

```
<head> … </head>
<body>
  <div class="container"> … </div>
  <h2>List of All Books</h2>
  <table class="books-table"> … </table>
  <div class="actions-container"> flex
    <!-- Add book -->
    <a href="/create"> … </a>
    <!-- Update book -->
    <a href="/update">
      <button>Update Book</button>
    </a>
    <!-- Delete book -->
    <a href="/delete">
      <button>Delete Book</button> == $0
    </a>
  </div>
```

```
element.style {
}
button {                                          styles.css:43
   background-color: #4CAF50;
   color: white;
   border: none;
   cursor: pointer;
}
button, input {                                   styles.css:35
   width: 250px;
   padding: 12px 20px;
   font-size: 16px;
   margin: 10px;
```

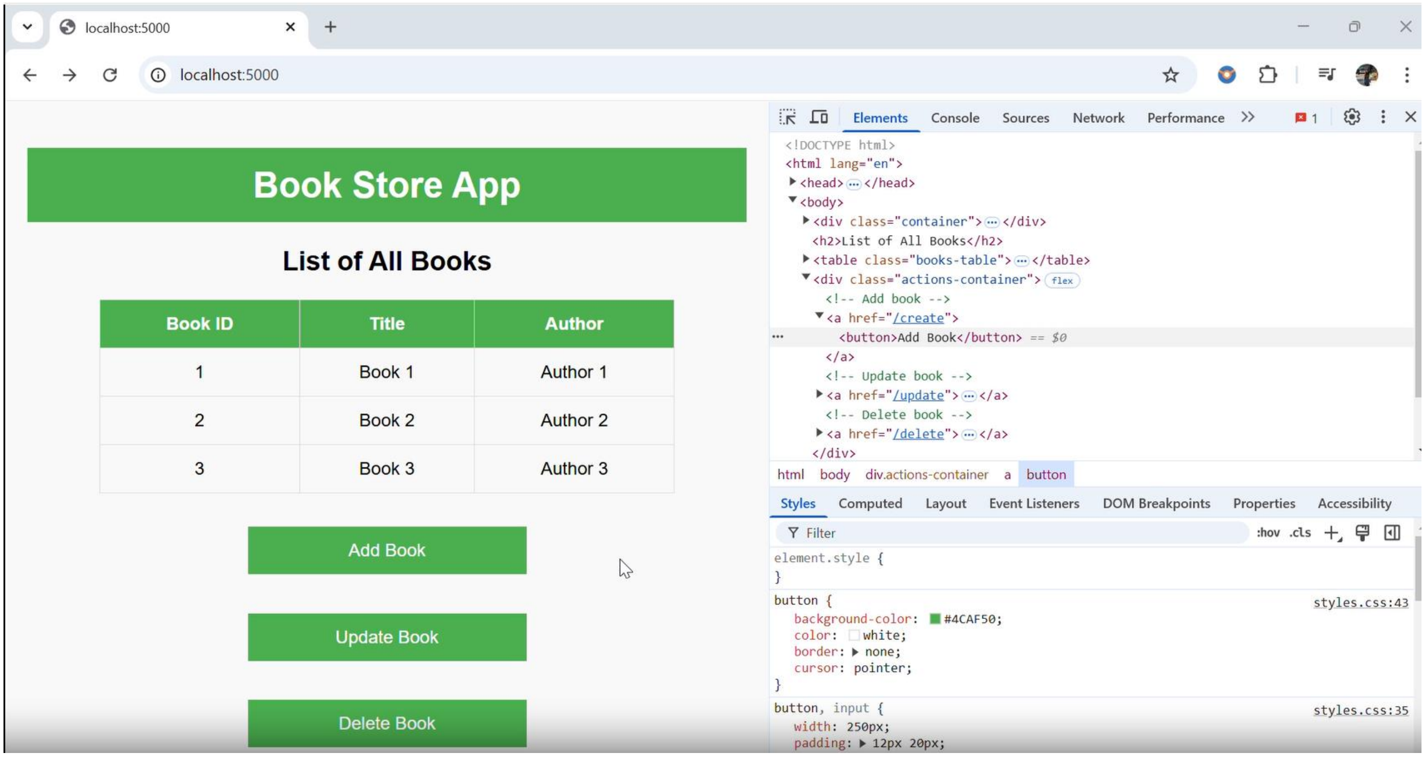


Delete Book

```
<!-- Add your code here -->
<!DOCTYPE html>
<html lang="en">
<head> … </head>
<body>
  <h2>Delete Book</h2>
  <form action="/delete-book" method="POST">
    <input type="number" name="BookID" placeholder="Enter Book ID to Delete" required fdprocessedid=
    "b7mf1">
    <button type="submit" fdprocessedid="0qxlnk">Delete Book</button> == $0
  </form>
  <span id="PING_IFRAME_FORM_DETECTION" style="display: none;"></span>
  <gdiv class="ginger-extension-writer" style="display: none;"> … </gdiv>
</body>
</html>
```

```
element.style {
}
button {                                          styles.css:43
   background-color: #4CAF50;
   color: white;
   border: none;
   cursor: pointer;
}
button, input {                                   styles.css:35
   width: 250px;
   padding: 12px 20px;
   font-size: 16px;
   margin: 10px;
   ~~border: 1px solid #ddd;~~
}
button {                             user agent stylesheet
   appearance: auto;
```

Cursor changed to pointer on hover

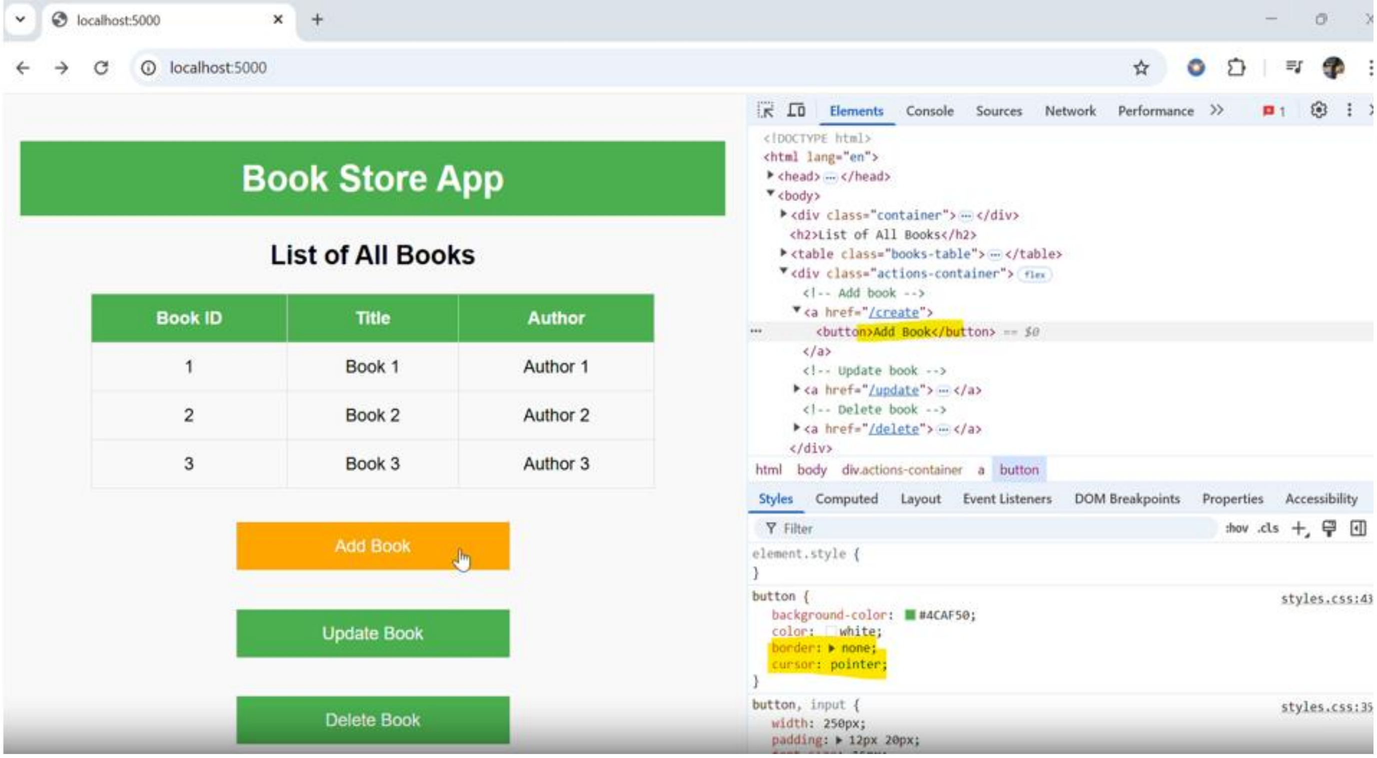


Book ID	Title	Author
1	Book 1	Author 1
2	Book 2	Author 2
3	Book 3	Author 3

```
<!DOCTYPE html>
<html lang="en">
 ▶<head> ··· </head>
 ▼<body>
  ▶<div class="container"> ··· </div>
   <h2>List of All Books</h2>
  ▶<table class="books-table"> ··· </table>
  ▼<div class="actions-container"> flex
     <!-- Add book -->
    ▼<a href="/create">
       <button>Add Book</button> == $0
     </a>
     <!-- Update book -->
    ▶<a href="/update"> ··· </a>
     <!-- Delete book -->
    ▶<a href="/delete"> ··· </a>
   </div>
```

```
element.style {
}
button {                                   styles.css:43
   background-color: ■#4CAF50;
   color: □white;
   border: ▶ none;
   cursor: pointer;
}
button, input {                            styles.css:35
   width: 250px;
   padding: ▶ 12px 20px;
```

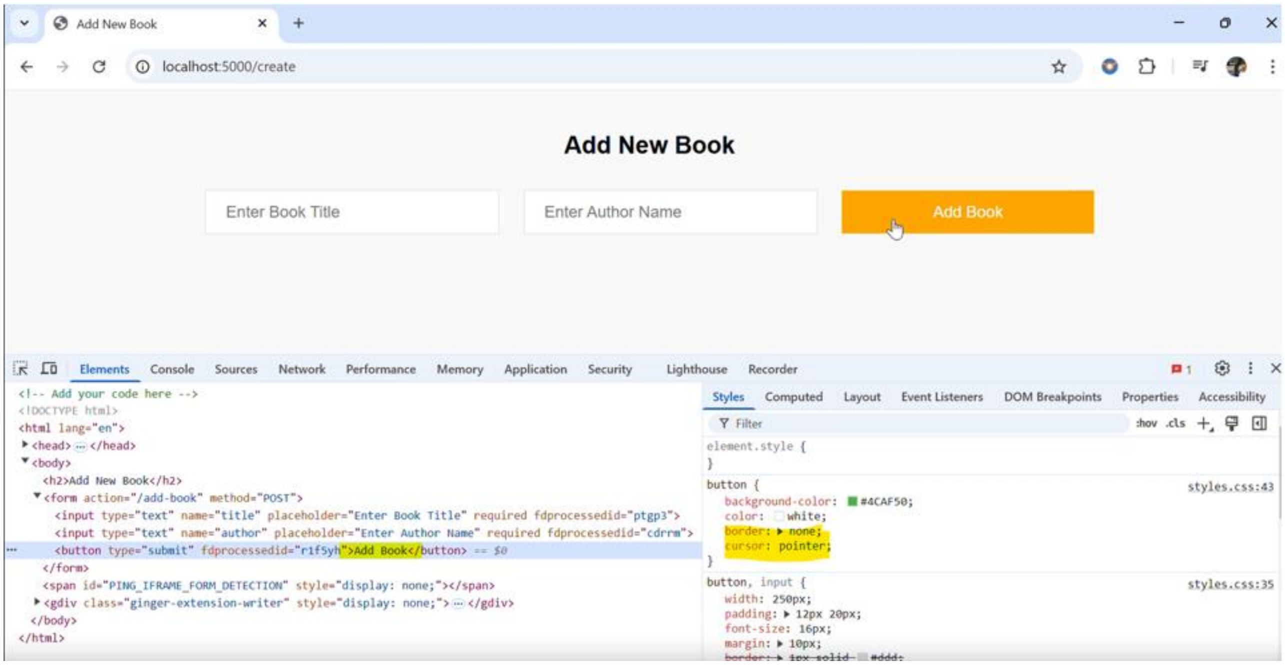
Add Book button



Book ID	Title	Author
1	Book 1	Author 1
2	Book 2	Author 2
3	Book 3	Author 3

```
<!DOCTYPE html>
<html lang="en">
 ▶<head> ··· </head>
 ▼<body>
  ▶<div class="container"> ··· </div>
   <h2>List of All Books</h2>
  ▶<table class="books-table"> ··· </table>
  ▼<div class="actions-container"> flex
     <!-- Add book -->
    ▼<a href="/create">
       <button>Add Book</button> == $0
     </a>
     <!-- Update book -->
    ▶<a href="/update"> ··· </a>
     <!-- Delete book -->
    ▶<a href="/delete"> ··· </a>
   </div>
```

```
element.style {
}
button {                                   styles.css:43
   background-color: ■#4CAF50;
   color: □white;
   border: ▶ none;
   cursor: pointer;
}
button, input {                            styles.css:35
   width: 250px;
   padding: ▶ 12px 20px;
```

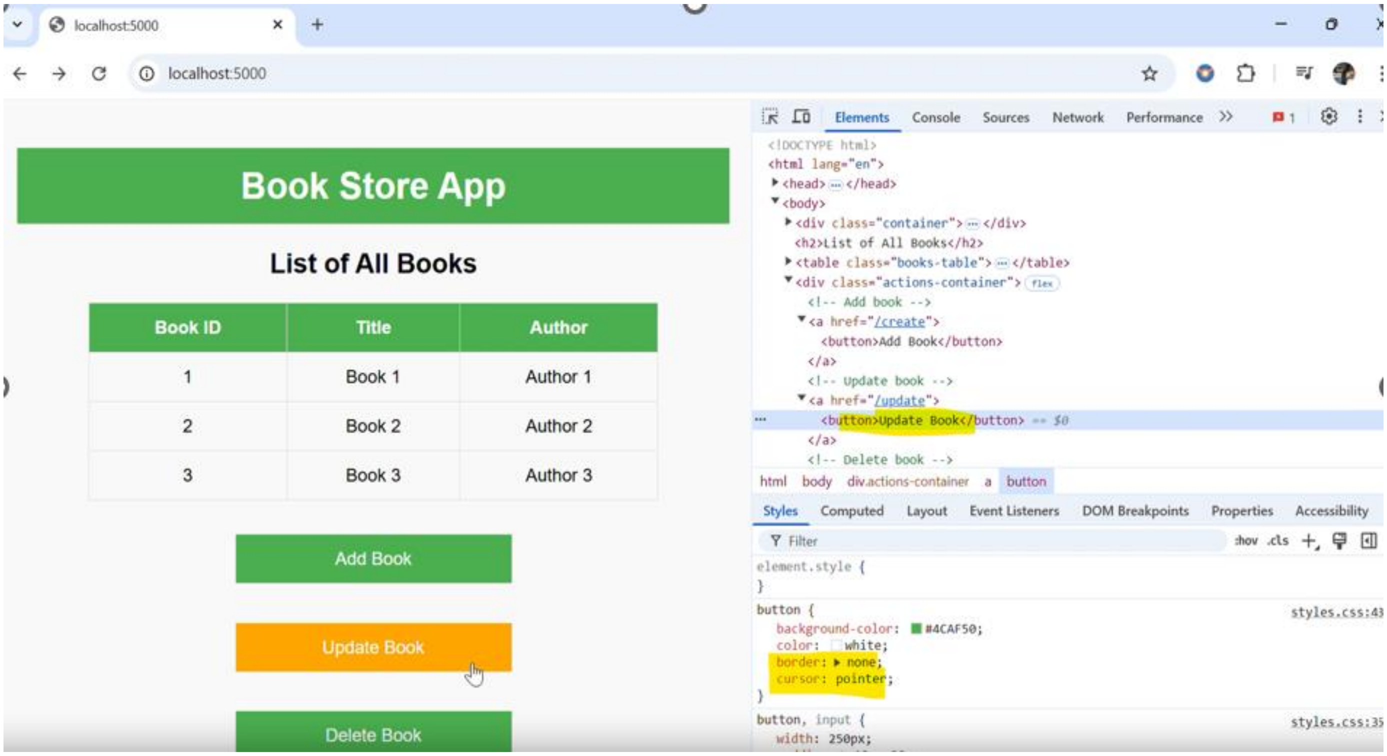


Add New Book

```
<!-- Add your code here -->
<!DOCTYPE html>
<html lang="en">
 ▸<head> ⋯ </head>
 ▾<body>
    <h2>Add New Book</h2>
   ▾<form action="/add-book" method="POST">
      <input type="text" name="title" placeholder="Enter Book Title" required fdprocessedid="ptgp3">
      <input type="text" name="author" placeholder="Enter Author Name" required fdprocessedid="cdrrm">
      <button type="submit" fdprocessedid="r1f5yh">Add Book</button> == $0
    </form>
    <span id="PING_IFRAME_FORM_DETECTION" style="display: none;"></span>
   ▸<gdiv class="ginger-extension-writer" style="display: none;"> ⋯ </gdiv>
  </body>
</html>
```

```
element.style {
}
button {                                              styles.css:43
  background-color: ■ #4CAF50;
  color: □ white;
  border: ▸ none;
  cursor: pointer;
}
button, input {                                       styles.css:35
  width: 250px;
  padding: ▸ 12px 20px;
  font-size: 16px;
  margin: ▸ 10px;
  ~~border: ▸ 1px solid □ #ddd;~~
```

Update Book button



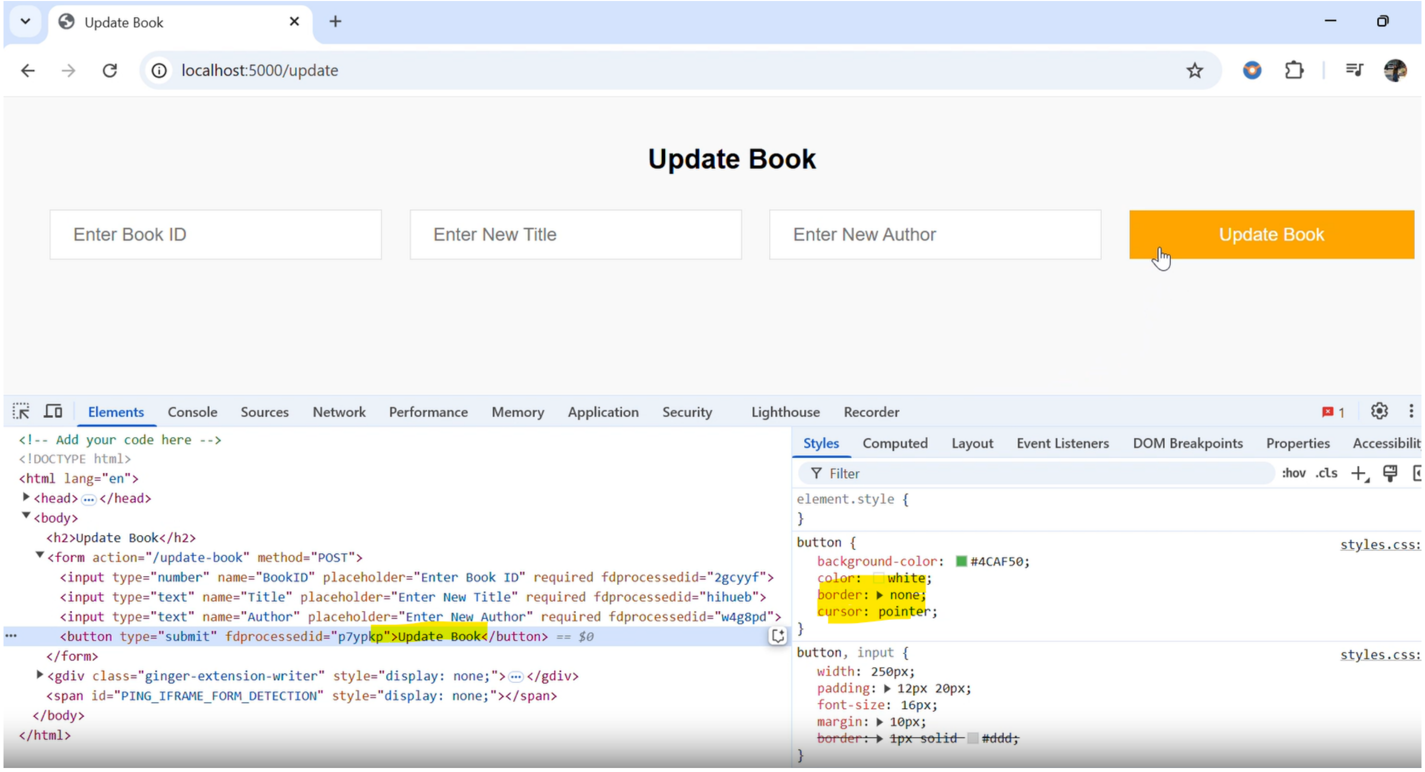
Book Store App

List of All Books

Book ID	Title	Author
1	Book 1	Author 1
2	Book 2	Author 2
3	Book 3	Author 3

```
<!DOCTYPE html>
<html lang="en">
 ▸<head> ⋯ </head>
 ▾<body>
   ▸<div class="container"> ⋯ </div>
    <h2>List of All Books</h2>
   ▸<table class="books-table"> ⋯ </table>
   ▾<div class="actions-container"> flex
      <!-- Add book -->
     ▾<a href="/create">
        <button>Add Book</button>
      </a>
      <!-- Update book -->
     ▾<a href="/update">
        <button>Update Book</button> == $0
      </a>
      <!-- Delete book -->
```

```
element.style {
}
button {                                              styles.css:43
  background-color: ■ #4CAF50;
  color: □ white;
  border: ▸ none;
  cursor: pointer;
}
button, input {                                       styles.css:35
  width: 250px;
```

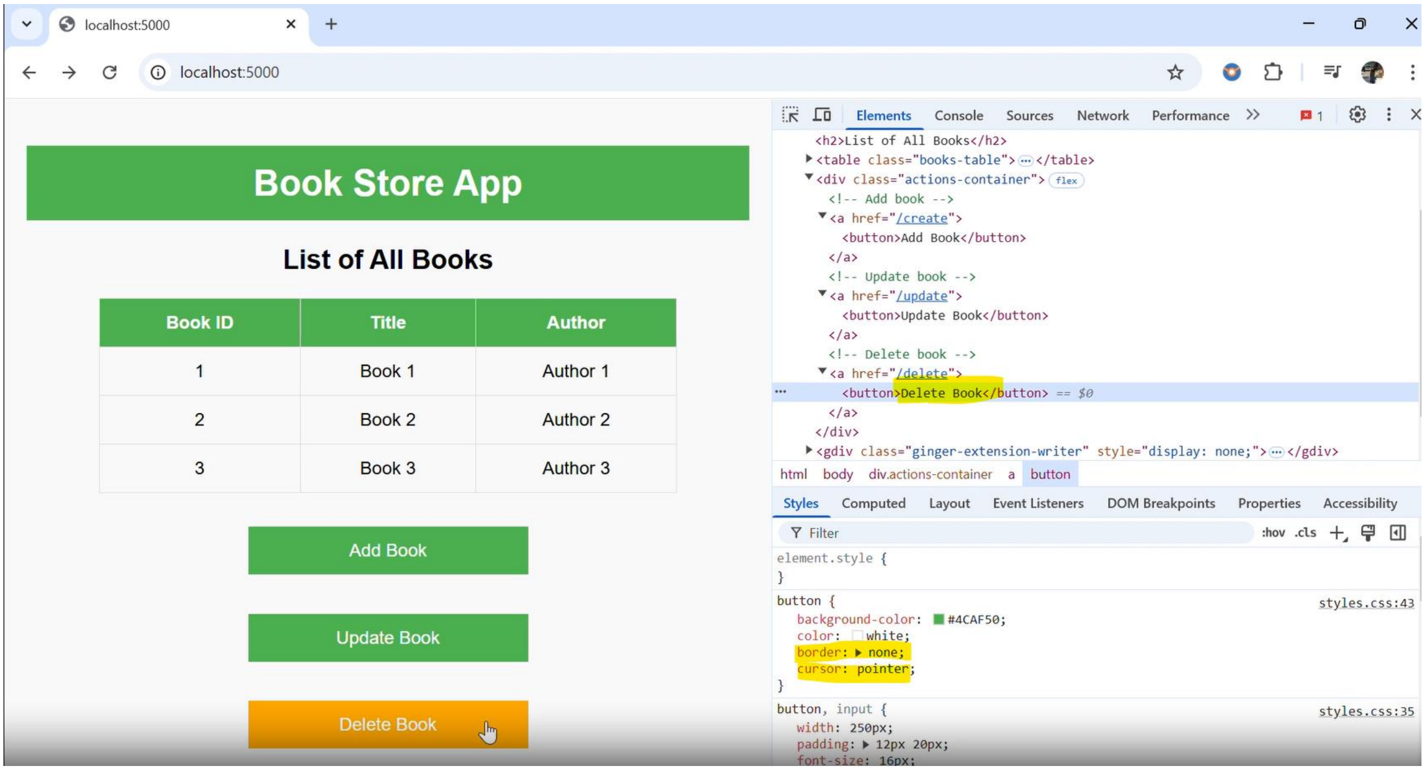


Update Book

```
<!-- Add your code here -->
<!DOCTYPE html>
<html lang="en">
 ▶<head> ⋯ </head>
 ▼<body>
    <h2>Update Book</h2>
  ▼<form action="/update-book" method="POST">
     <input type="number" name="BookID" placeholder="Enter Book ID" required fdprocessedid="2gcyyf">
     <input type="text" name="Title" placeholder="Enter New Title" required fdprocessedid="hihueb">
     <input type="text" name="Author" placeholder="Enter New Author" required fdprocessedid="w4g8pd">
⋯    <button type="submit" fdprocessedid="p7ypkp">Update Book</button> == $0
    </form>
  ▶<gdiv class="ginger-extension-writer" style="display: none;"> ⋯ </gdiv>
    <span id="PING_IFRAME_FORM_DETECTION" style="display: none;"></span>
  </body>
</html>
```

```
element.style {
}
button {                                          styles.css:
  background-color: #4CAF50;
  color: white;
  border: ▶ none;
  cursor: pointer;
}
button, input {                                   styles.css:
  width: 250px;
  padding: ▶ 12px 20px;
  font-size: 16px;
  margin: ▶ 10px;
  ~~border: ▶ 1px solid #ddd;~~
}
```

Delete Book button



Book Store App

List of All Books

Book ID	Title	Author
1	Book 1	Author 1
2	Book 2	Author 2
3	Book 3	Author 3

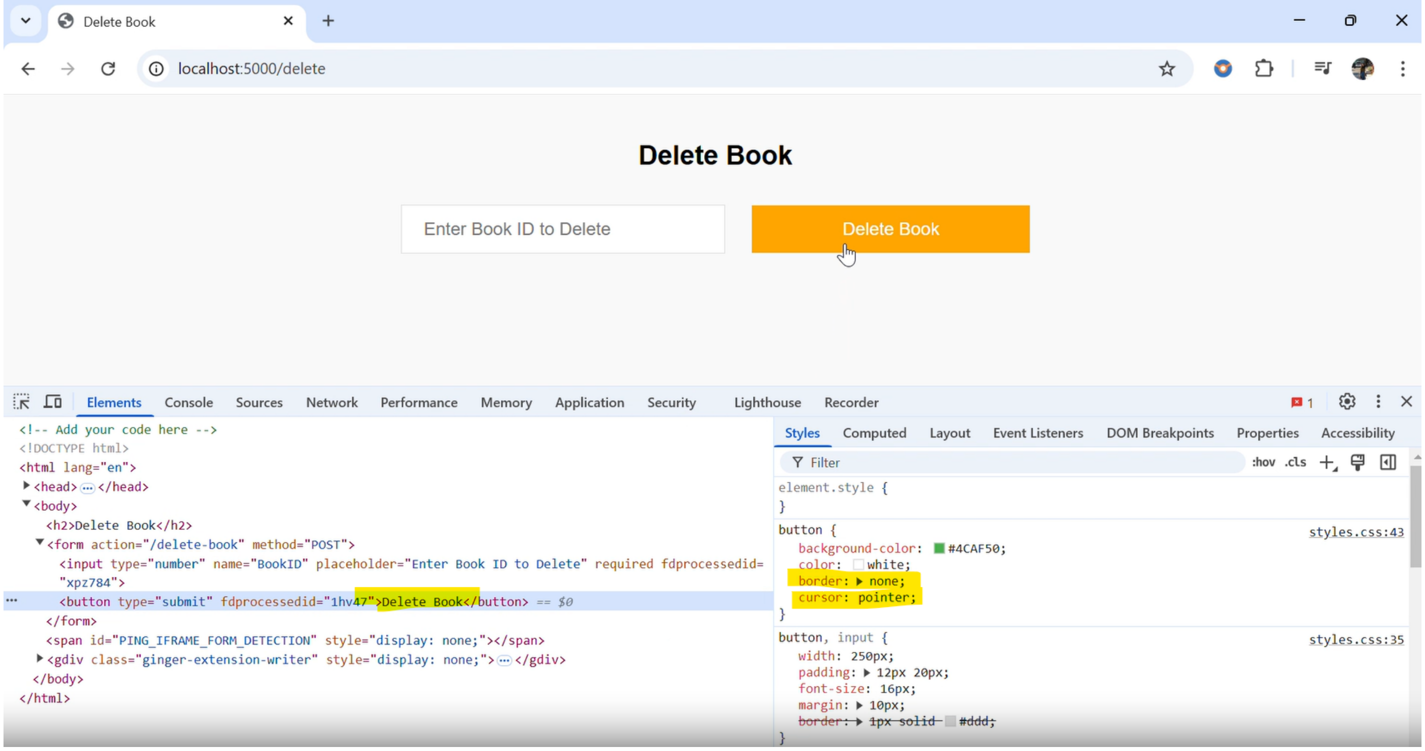
Add Book

Update Book

Delete Book

```
    <h2>List of All Books</h2>
  ▶<table class="books-table"> ⋯ </table>
  ▼<div class="actions-container"> flex
      <!-- Add book -->
    ▼<a href="/create">
        <button>Add Book</button>
      </a>
      <!-- Update book -->
    ▼<a href="/update">
        <button>Update Book</button>
      </a>
      <!-- Delete book -->
    ▼<a href="/delete">
⋯       <button>Delete Book</button> == $0
      </a>
    </div>
  ▶<gdiv class="ginger-extension-writer" style="display: none;"> ⋯ </gdiv>
```

```
element.style {
}
button {                                          styles.css:43
  background-color: #4CAF50;
  color: white;
  border: ▶ none;
  cursor: pointer;
}
button, input {                                   styles.css:35
  width: 250px;
  padding: ▶ 12px 20px;
  font-size: 16px;
```



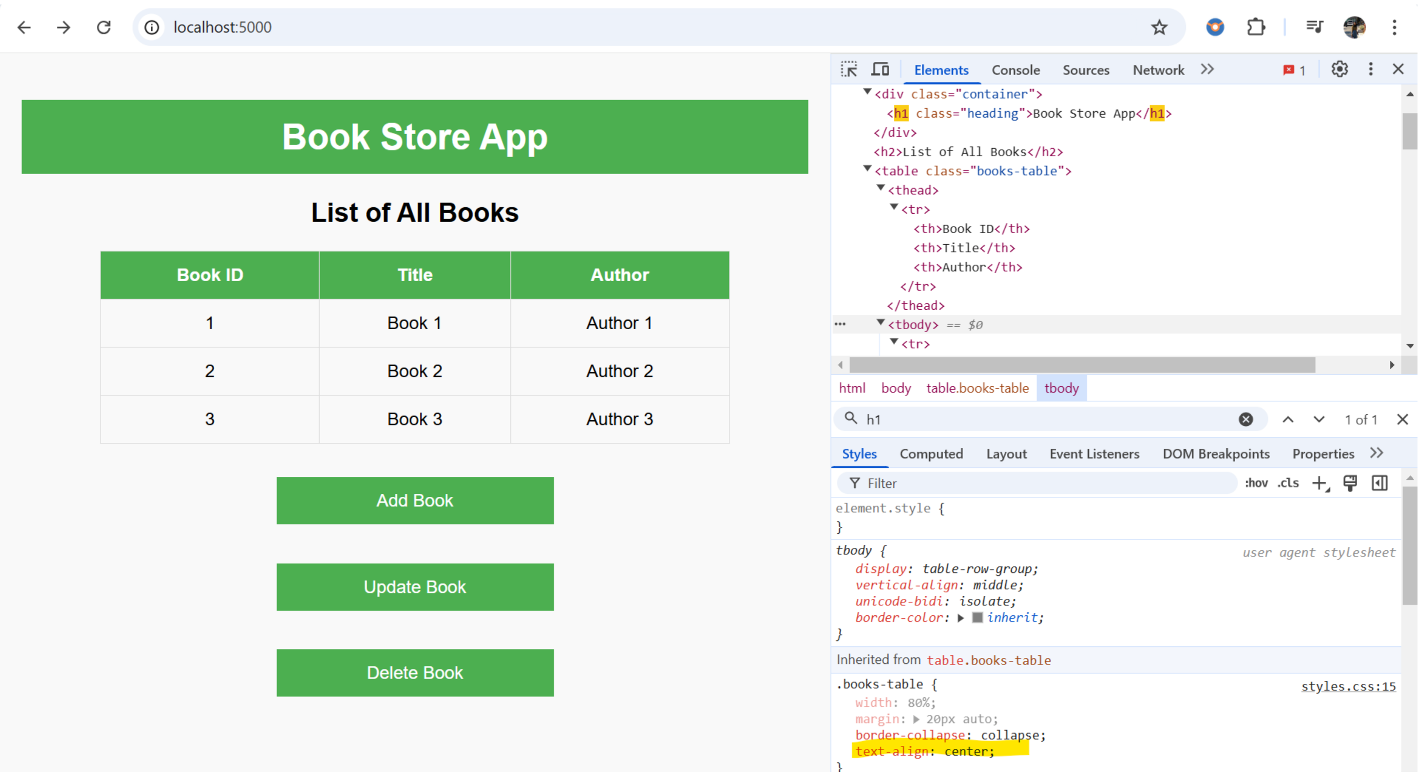
```
<!-- Add your code here -->
<!DOCTYPE html>
<html lang="en">
▶<head>…</head>
▼<body>
   <h2>Delete Book</h2>
  ▼<form action="/delete-book" method="POST">
     <input type="number" name="BookID" placeholder="Enter Book ID to Delete" required fdprocessedid=
     "xpz784">
     <button type="submit" fdprocessedid="1hv47">Delete Book</button> == $0
   </form>
   <span id="PING_IFRAME_FORM_DETECTION" style="display: none;"></span>
  ▶<gdiv class="ginger-extension-writer" style="display: none;">…</gdiv>
 </body>
</html>
```

```
element.style {
}
button {                                    styles.css:43
  background-color: #4CAF50;
  color: white;
  border: ▶ none;
  cursor: pointer;
}
button, input {                             styles.css:35
  width: 250px;
  padding: ▶ 12px 20px;
  font-size: 16px;
  margin: ▶ 10px;
  border: ▶ 1px solid #ddd;
}
```

4. Center align the table text of the table. (1 point)

styles.css

```
.books-table {
    width: 80%;
    margin: 20px auto;
    border-collapse: collapse;
    text-align: center;             /*Q4 - center align table text*/
}
.books-table th, .books-table td {
    border: 1px solid #ddd;
    padding: 12px;
    text-align: center;   /*q4 keep text inside table cells to center*/
}
```



Book Store App

List of All Books

Book ID	Title	Author
1	Book 1	Author 1
2	Book 2	Author 2
3	Book 3	Author 3

Add Book

Update Book

Delete Book

```
▼<div class="container">
   <h1 class="heading">Book Store App</h1>
 </div>
 <h2>List of All Books</h2>
▼<table class="books-table">
  ▼<thead>
    ▼<tr>
       <th>Book ID</th>
       <th>Title</th>
       <th>Author</th>
     </tr>
   </thead>
  ▼<tbody> == $0
    ▼<tr>
```

```
element.style {
}
tbody {                                         user agent stylesheet
   display: table-row-group;
   vertical-align: middle;
   unicode-bidi: isolate;
   border-color: ▸ ■ inherit;
}
Inherited from table.books-table
.books-table {                                  styles.css:15
   width: 80%;
   margin: ▸ 20px auto;
   border-collapse: collapse;
   text-align: center;
}
```

Part 2. HTTP, Express, NodeJS (6 points)

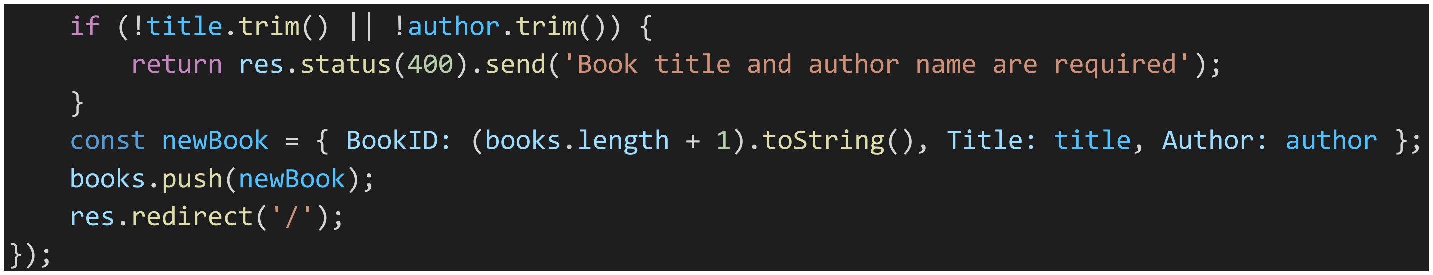
1. Write the code to add a new book. The user should be able to enter the Book Title and Author Name. Once the user submits the required data, the book should be added and the user should be redirected to the home view showing the updated list of books. (2 points)

create.ejs (to enter book details)

```
<!-- Add your code here -->
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Add New Book</title>
    <link rel="stylesheet" href="/css/styles.css">
</head>

<body>

    <h2>Add New Book</h2>
    <form action="/add-book" method="POST">
        <input type="text" name="title" placeholder="Enter Book Title" required>
        <input type="text" name="author" placeholder="Enter Author Name" required>
        <button type="submit">Add Book</button>
    </form>

</body>
</html>
```

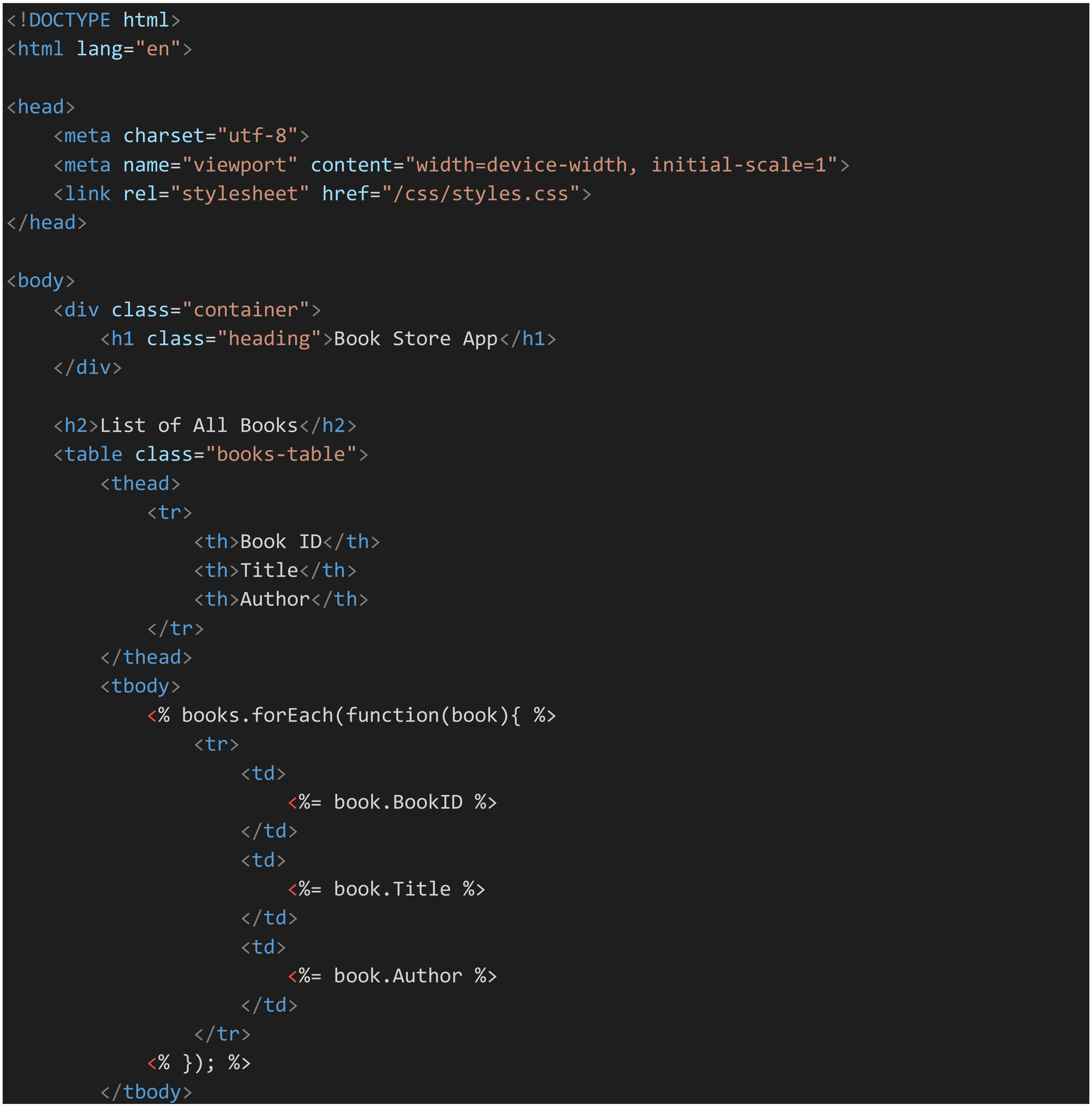
index.js (add new book)

```
// add your code to create new book
app.post('/add-book', function (req, res) {
//import express module
const express = require('express');
//create an express app
const  app = express();
//require express middleware body-parser
const bodyParser = require('body-parser');

//set the view engine to ejs
app.set('view engine', 'ejs');
//set the directory of views
app.set('views', './views');
//specify the path of static directory
app.use(express.static(__dirname + '/public'));

//body parser parses the incoming request bodies
app.use(bodyParser.json());
app.use(bodyParser.urlencoded({ extended: true }));

// By default, we have 3 books
var books = [
    { "BookID": "1", "Title": "Book 1", "Author": "Author 1" },
    { "BookID": "2", "Title": "Book 2", "Author": "Author 2" },
    { "BookID": "3", "Title": "Book 3", "Author": "Author 3" }
];

//route to root
app.get('/', function (req, res) {
    res.render('home', { books: books });
});

// route to render create view
app.get('/create', function (req, res) {
    res.render('create');
});

// add new book
app.post('/add-book', (req, res) => {
    const { title, author } = req.body;
```

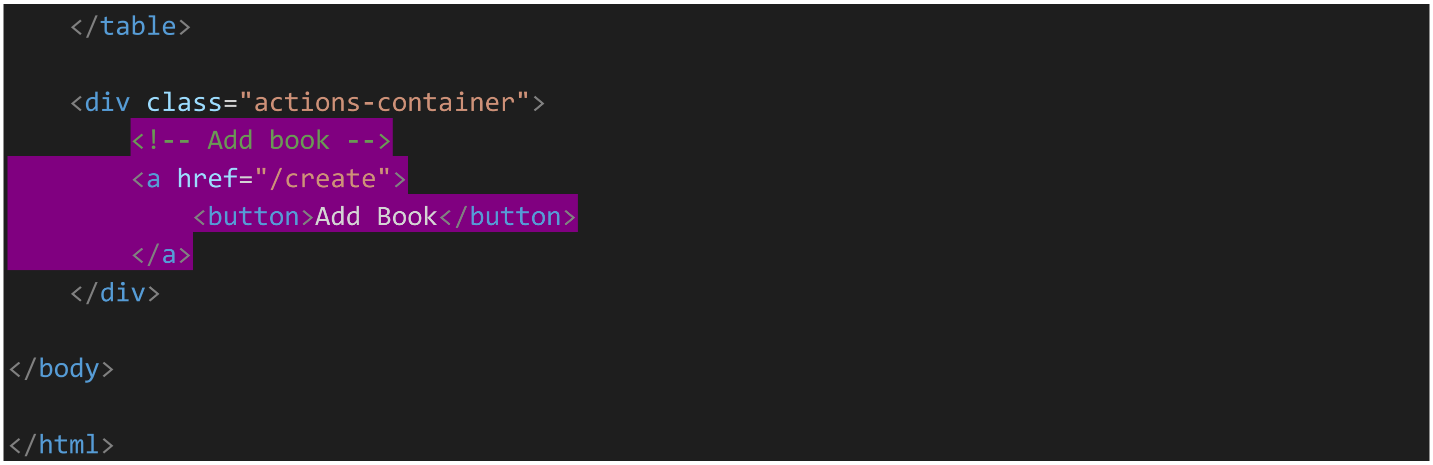


```
    if (!title.trim() || !author.trim()) {
        return res.status(400).send('Book title and author name are required');
    }
    const newBook = { BookID: (books.length + 1).toString(), Title: title, Author: author };
    books.push(newBook);
    res.redirect('/');
});
```

home.ejs (show the updated book table)

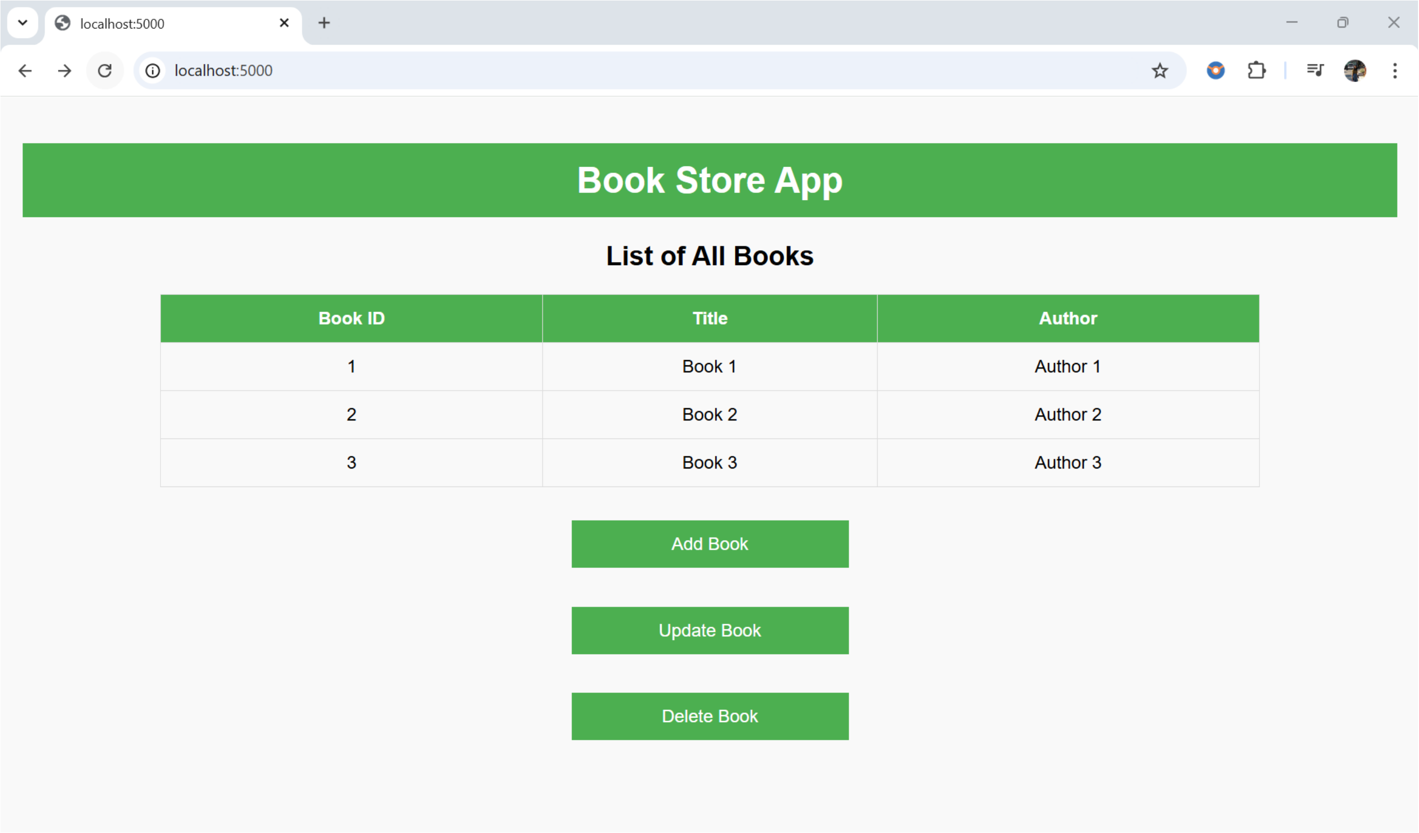


```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" href="/css/styles.css">
</head>

<body>
    <div class="container">
        <h1 class="heading">Book Store App</h1>
    </div>

    <h2>List of All Books</h2>
    <table class="books-table">
        <thead>
            <tr>
                <th>Book ID</th>
                <th>Title</th>
                <th>Author</th>
            </tr>
        </thead>
        <tbody>
            <% books.forEach(function(book){ %>
                <tr>
                    <td>
                        <%= book.BookID %>
                    </td>
                    <td>
                        <%= book.Title %>
                    </td>
                    <td>
                        <%= book.Author %>
                    </td>
                </tr>
            <% }); %>
        </tbody>
```



```
    </table>

    <div class="actions-container">
        <!-- Add book -->
        <a href="/create">
            <button>Add Book</button>
        </a>
    </div>

</body>

</html>
```

Page before adding book

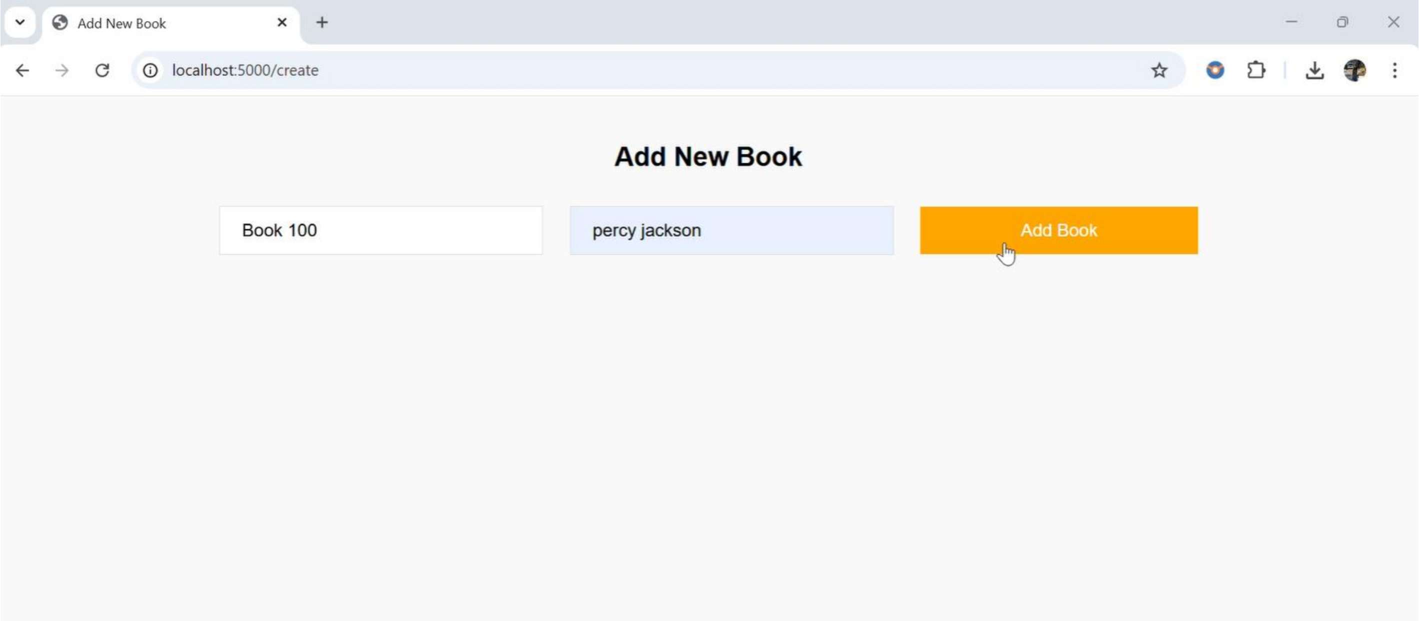


Book Store App

List of All Books

Book ID	Title	Author
1	Book 1	Author 1
2	Book 2	Author 2
3	Book 3	Author 3

Adding new book

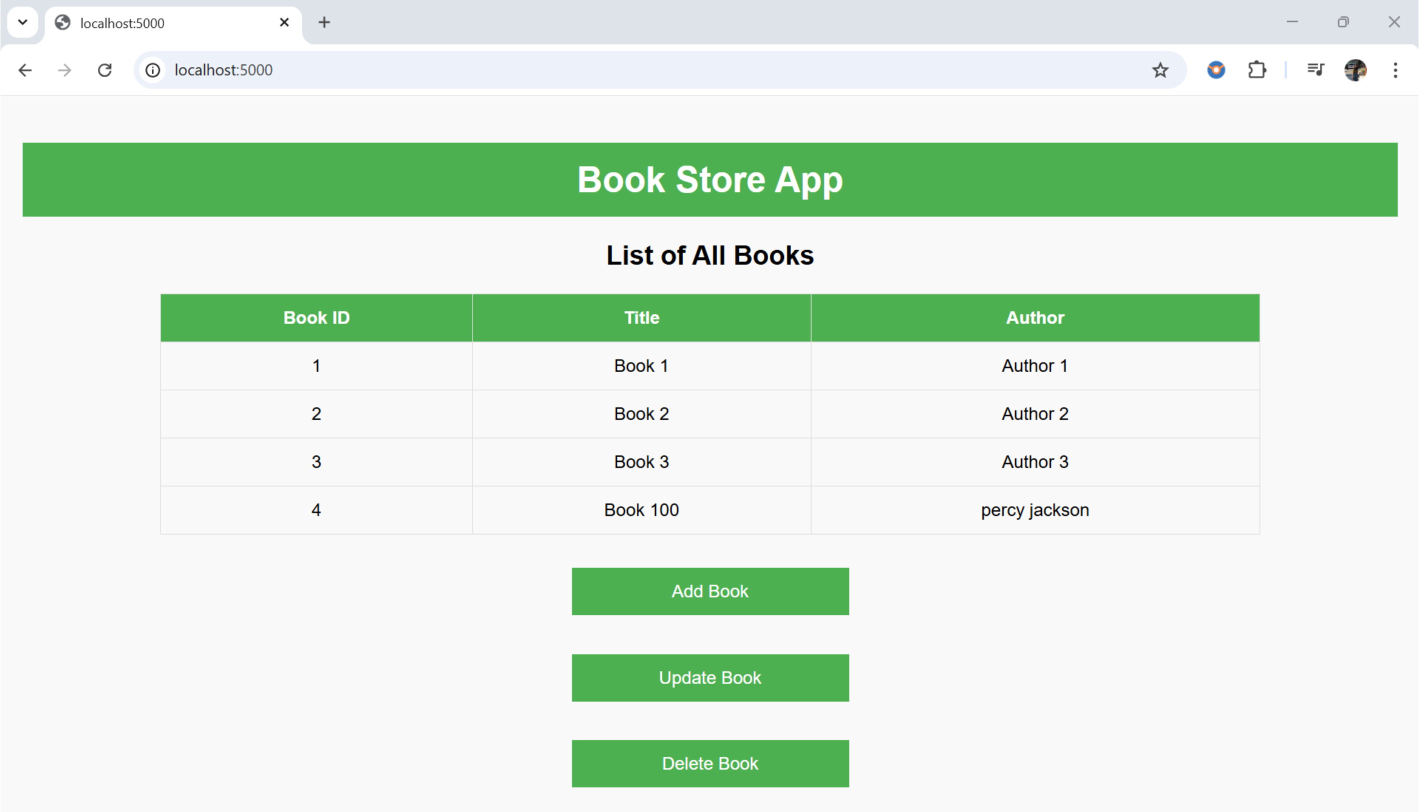


Add New Book

Book 100

percy jackson

Table updated with new book entry



Book Store App

List of All Books

Book ID	Title	Author
1	Book 1	Author 1
2	Book 2	Author 2
3	Book 3	Author 3
4	Book 100	percy jackson

2. Write the code to update book with id 1 to title:”Harry Potter”, Author Name: “J.K Rowling”. After submitting the data, redirect to the home view and show the updated data in the list of books. (2 points)

update.ejs (to update book details)

```html
<!-- Add your code here -->

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

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Update Book</title>
    <link rel="stylesheet" href="/css/styles.css">
</head>

<body>

    <h2>Update Book</h2>
    <form action="/update-book" method="POST">
        <input type="number" name="BookID" placeholder="Enter Book ID" required>
        <input type="text" name="Title" placeholder="Enter New Title" required>
        <input type="text" name="Author" placeholder="Enter New Author" required>
        <button type="submit">Update Book</button>
    </form>

</body>

</html>
```

index.js (route for updating the book)

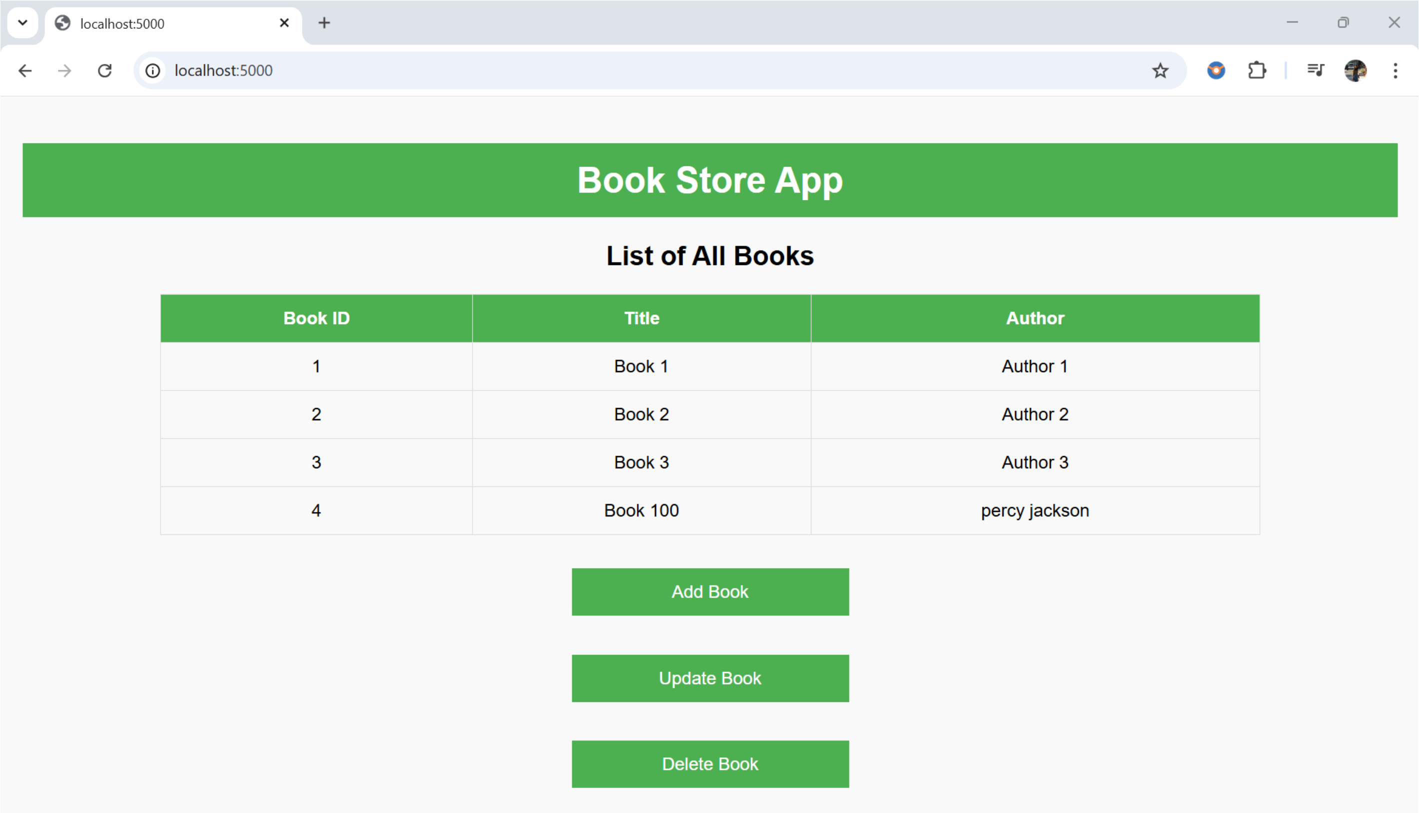
```javascript
// route to render update view
app.get('/update', function (req, res) {
    res.render('update');
});

// update book
app.post('/update-book', (req, res) => {
    const { BookID, Title, Author } = req.body;

    for (let i = 0; i < books.length; i++) {
        if (books[i].BookID === BookID) {
            books[i].Title = Title;
            books[i].Author = Author;
            break;
        }
    }
    res.redirect('/');
});
```

home.ejs (shows updated table)

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" href="/css/styles.css">
</head>
<body>
    <div class="container">
        <h1 class="heading">Book Store App</h1>
    </div>
    <h2>List of All Books</h2>
    <table class="books-table">
        <thead>
            <tr>
                <th>Book ID</th>
                <th>Title</th>
                <th>Author</th>
            </tr>
        </thead>
        <tbody>
            <% books.forEach(function(book){ %>
                <tr>
                    <td>
                        <%= book.BookID %>
                    </td>
                    <td>
                        <%= book.Title %>
                    </td>
                    <td>
                        <%= book.Author %>
                    </td>
                </tr>
            <% }); %>
        </tbody>
    </table>

    <div class="actions-container">
        <!-- Update book -->
        <a href="/update">
            <button>Update Book</button>
        </a>
    </div>
```

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

Before updating

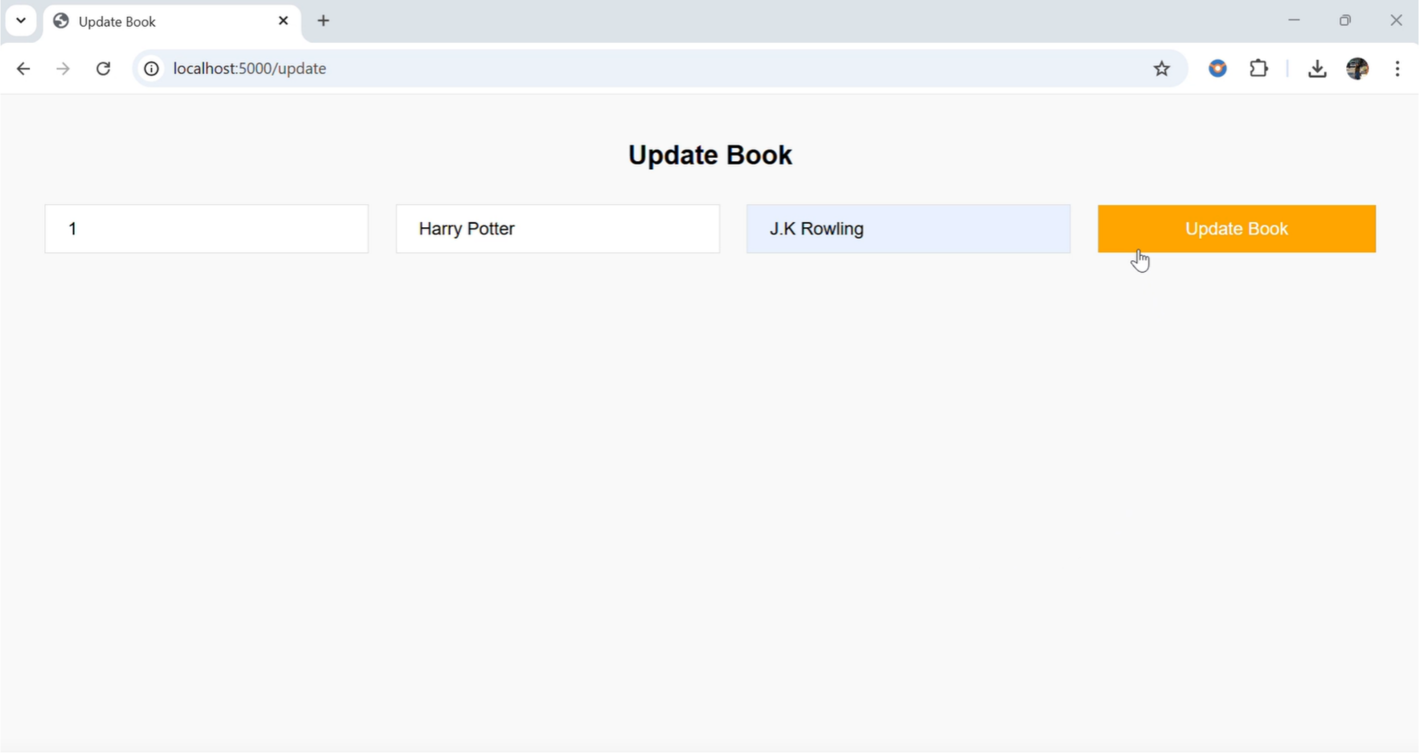


Book Store App

List of All Books

Book ID	Title	Author
1	Book 1	Author 1
2	Book 2	Author 2
3	Book 3	Author 3
4	Book 100	percy jackson

Update book with id 1



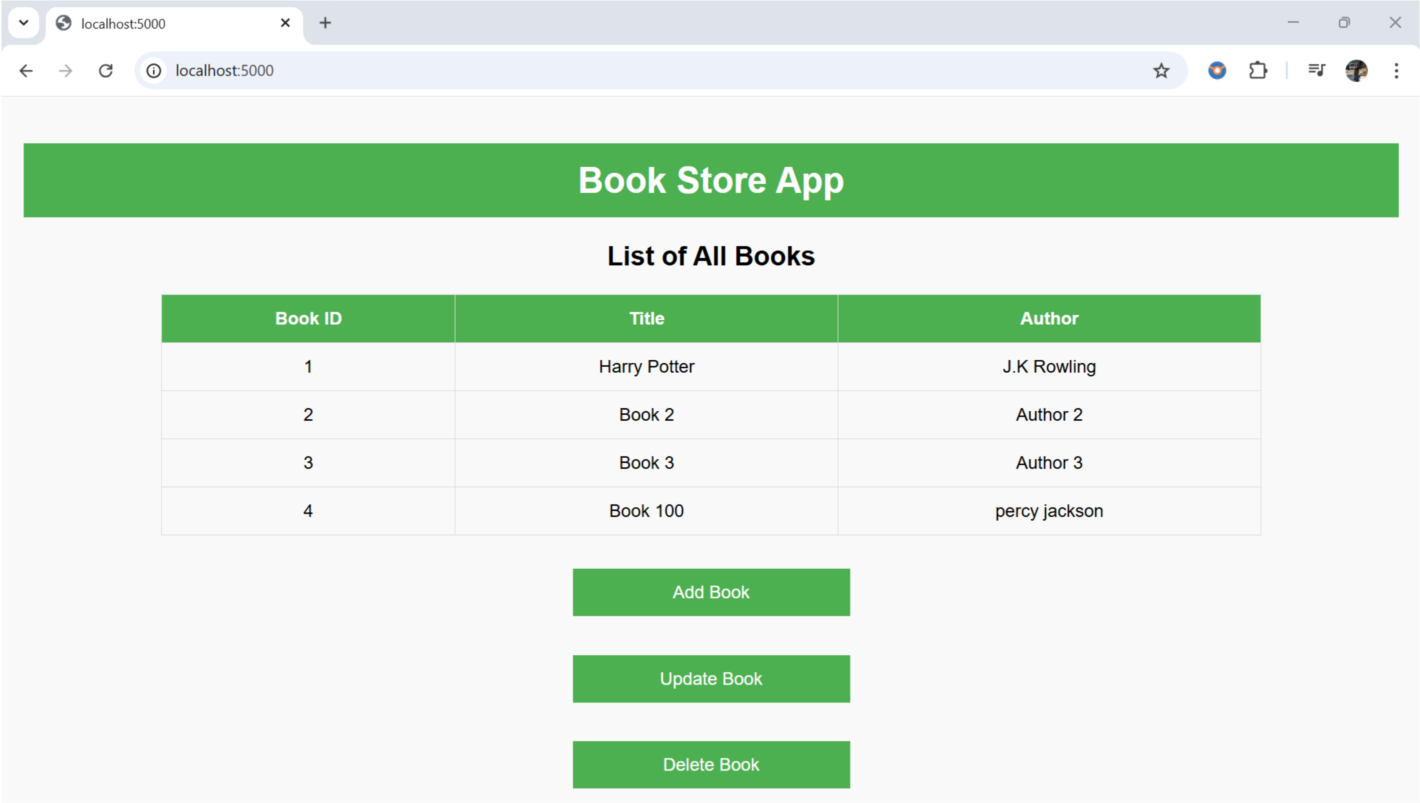
Update Book

1

Harry Potter

J.K Rowling

After updation



Book Store App

List of All Books

Book ID	Title	Author
1	Harry Potter	J.K Rowling
2	Book 2	Author 2
3	Book 3	Author 3
4	Book 100	percy jackson

3. Write the code to delete the book with the highest id. After submitting the data, redirect to the home view and show the updated data in the list of books. (2 points)

delete.ejs (to delete a book)

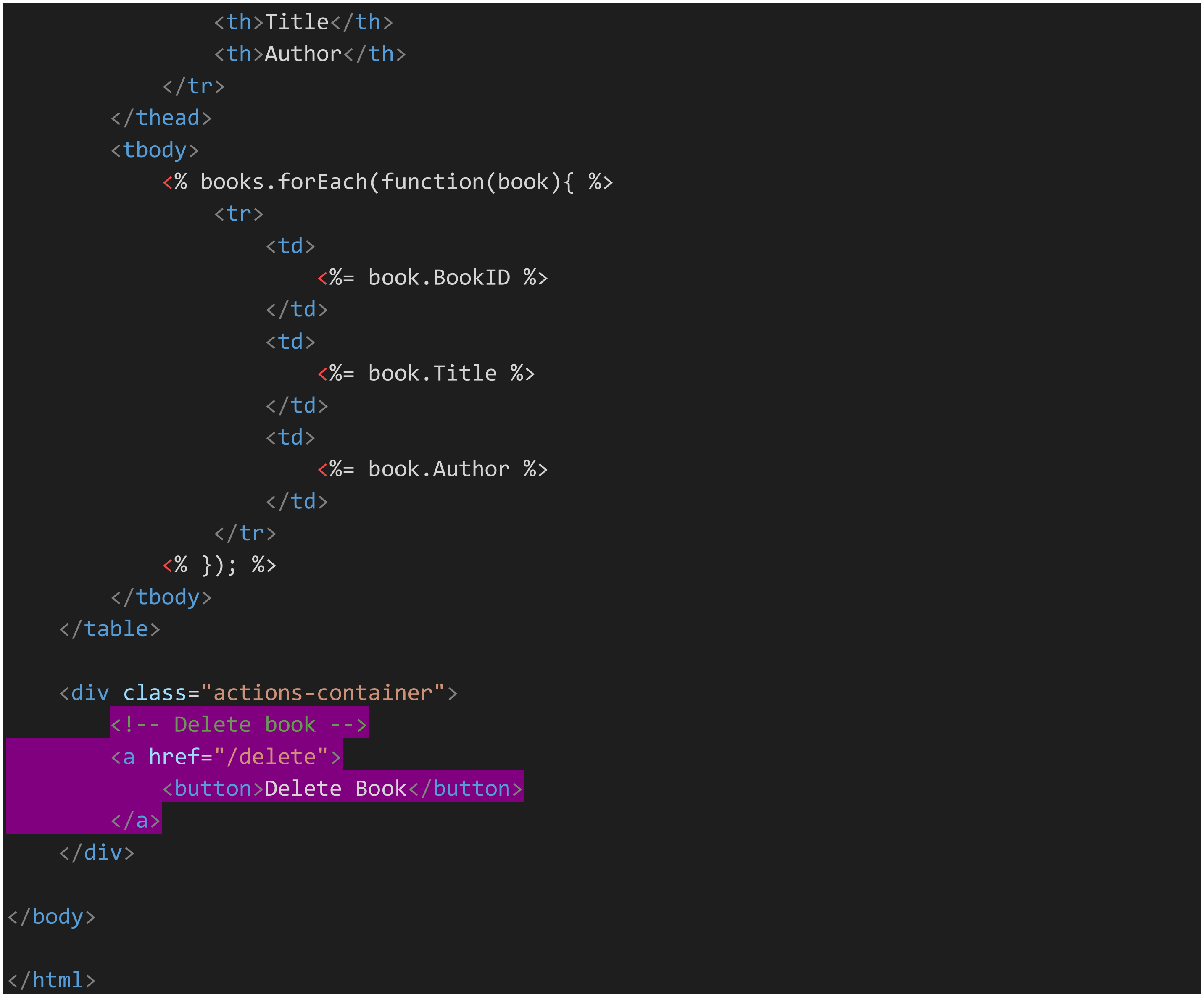
```
<!-- Add your code here -->

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

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Delete Book</title>
    <link rel="stylesheet" href="/css/styles.css">
</head>

<body>

    <h2>Delete Book</h2>
    <form action="/delete-book" method="POST">
        <input type="number" name="BookID" placeholder="Enter Book ID to Delete" required>
        <button type="submit">Delete Book</button>
    </form>

</body>

</html>
```

index.js (route to delete a book with the highest ID)

```

// route to render delete view
app.get('/delete', function (req, res) {
    res.render('delete');
});

// delete book with the highest ID
app.post('/delete-book', (req, res) => {
    if (books.length > 0) {
        // find the highest book id
        const highestID = Math.max(...books.map(book => parseInt(book.BookID)));
        // remove the book
        books = books.filter(book => parseInt(book.BookID) !== highestID);
    }
    res.redirect('/');
});
```

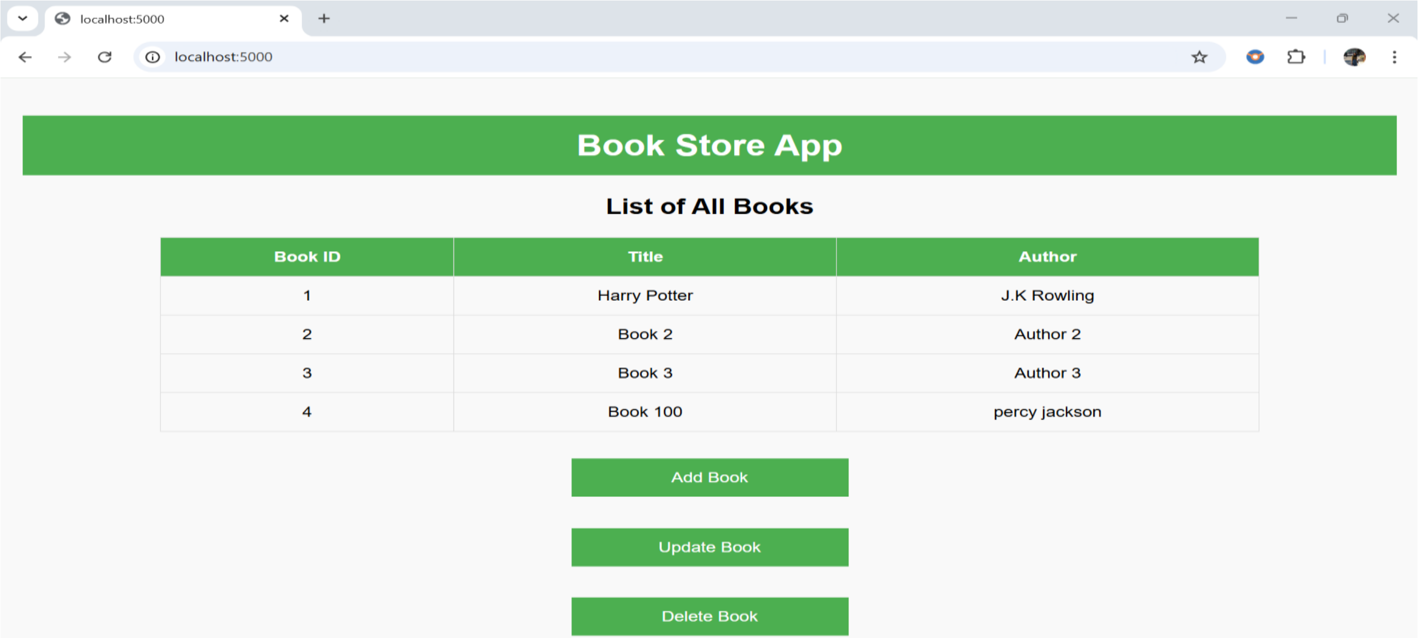
home.ejs (display the updated book table)

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

<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" href="/css/styles.css">
</head>

<body>
    <div class="container">
        <h1 class="heading">Book Store App</h1>
    </div>

    <h2>List of All Books</h2>
    <table class="books-table">
        <thead>
            <tr>
                <th>Book ID</th>
```



```
                <th>Title</th>
                <th>Author</th>
            </tr>
        </thead>
        <tbody>
            <% books.forEach(function(book){ %>
                <tr>
                    <td>
                        <%= book.BookID %>
                    </td>
                    <td>
                        <%= book.Title %>
                    </td>
                    <td>
                        <%= book.Author %>
                    </td>
                </tr>
            <% }); %>
        </tbody>
    </table>

    <div class="actions-container">
        <!-- Delete book -->
        <a href="/delete">
            <button>Delete Book</button>
        </a>
    </div>

</body>

</html>
```

Before deleting

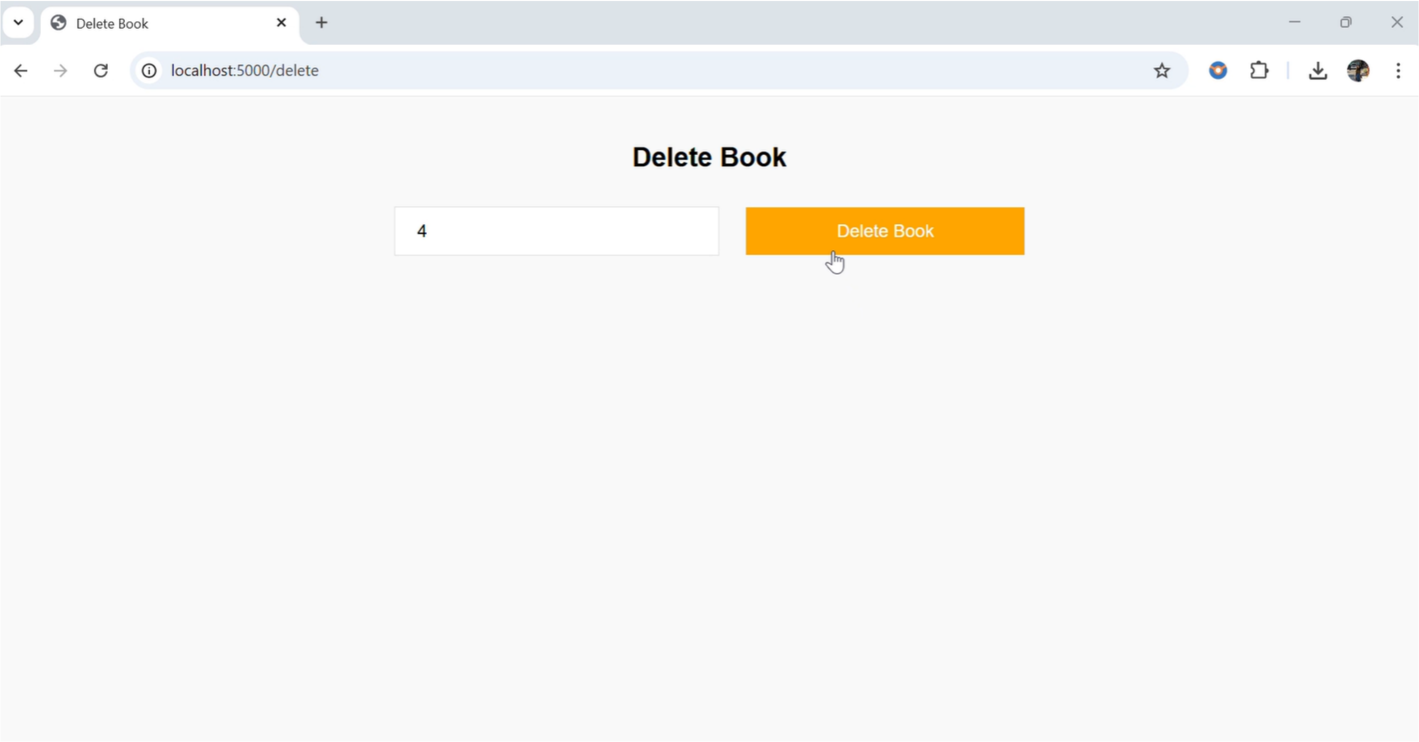


Book Store App

List of All Books

Book ID	Title	Author
1	Harry Potter	J.K Rowling
2	Book 2	Author 2
3	Book 3	Author 3
4	Book 100	percy jackson

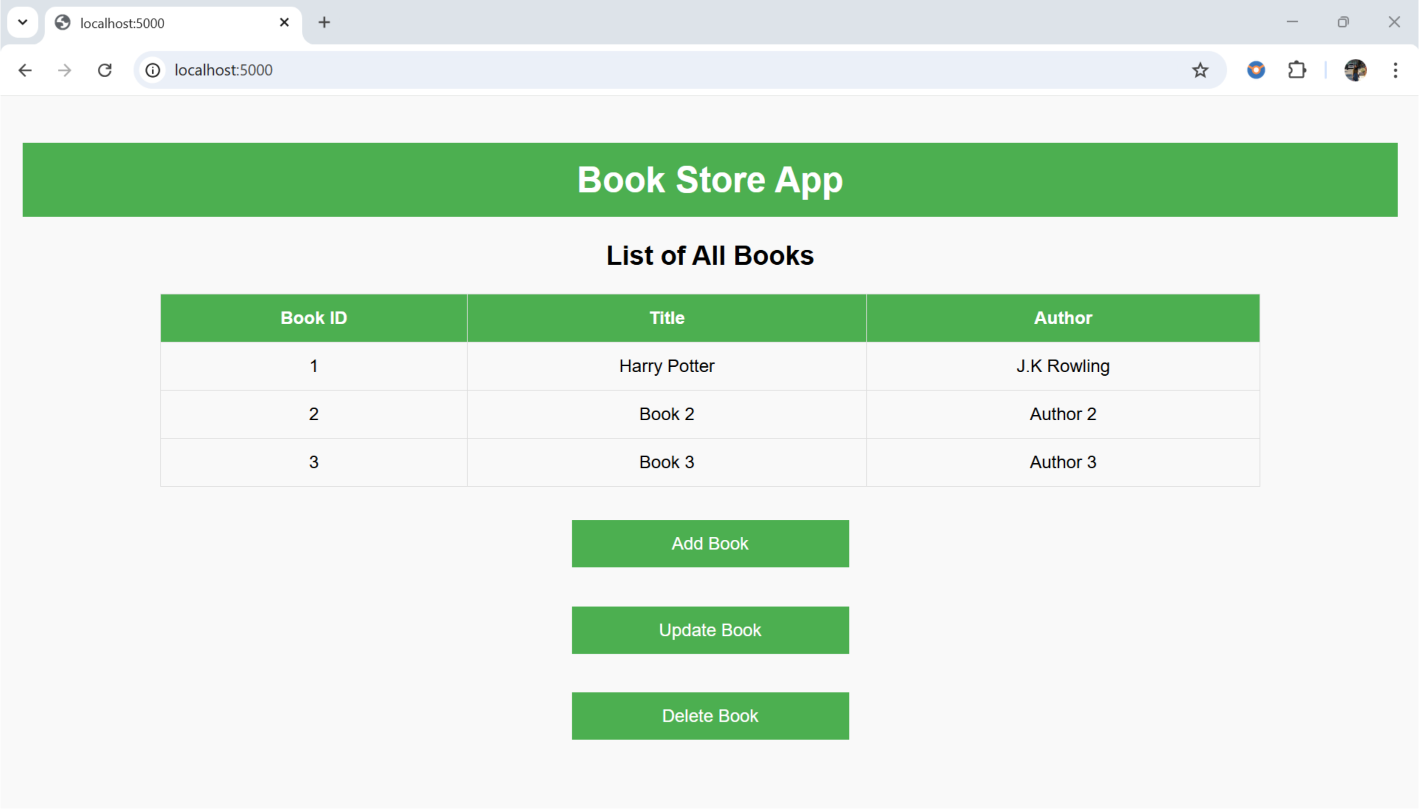
Delete book with id 4



Delete Book

4

After deletion



Book Store App

List of All Books

Book ID	Title	Author
1	Harry Potter	J.K Rowling
2	Book 2	Author 2
3	Book 3	Author 3