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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 Explorer</title>

  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css">

  <style>

    body {

      background-color: #f4f4f9;

      font-family: 'Arial', sans-serif;

    }

    .header {

      background-color: #343a40;

      color: #fff;

      padding: 20px 0;

      text-align: center;

    }

    .header h1 {

      font-size: 2.5rem;

      margin: 0;

    }

    .search-bar {

      margin: 20px auto;

      max-width: 600px;

    }

    .search-bar input {

      border-radius: 50px;

      padding: 15px;

      font-size: 1rem;

    }

    .book-card {

      background-color: #fff;

      border-radius: 10px;

      box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);

      overflow: hidden;

      transition: transform 0.3s ease, box-shadow 0.3s ease;

    }

    .book-card:hover {

      transform: translateY(-10px);

      box-shadow: 0 8px 12px rgba(0, 0, 0, 0.2);

    }

    .book-card .card-body {

      padding: 20px;

    }

    .book-card h5 {

      font-size: 1.25rem;

      color: #343a40;

    }

    .book-card h6 {

      font-size: 1rem;

      color: #6c757d;

    }

    .book-card p {

      font-size: 0.9rem;

      color: #495057;

    }

    .add-book-btn {

      display: block;

      margin: 30px auto;

      padding: 15px 30px;

      font-size: 1.2rem;

      border-radius: 50px;

      background-color: #28a745;

      color: #fff;

      text-align: center;

      text-decoration: none;

      transition: background-color 0.3s ease;

    }

    .add-book-btn:hover {

      background-color: #218838;

    }

    .no-books {

      text-align: center;

      font-size: 1.2rem;

      color: #6c757d;

      margin-top: 20px;

    }

  </style>

</head>

<body>

  <header class="header">

    <h1>📚 Book Explorer</h1>

  </header>

  <div class="container">

    <div class="search-bar">

      <input type="text" id="authorSearch" placeholder="Search books by author..." class="form-control shadow">

    </div>

    <div id="bookList" class="row g-4"></div>

    <a href="add.html" class="add-book-btn">➕ Add a New Book</a>

  </div>

  <script>

    const listContainer = document.getElementById('bookList');

    const searchInput = document.getElementById('authorSearch');

    async function fetchBooks(author = '') {

      try {

        const res = await fetch(`http://localhost:5000/api/books?author=${author}`);

        const books = await res.json();

        if (books.length === 0) {

          listContainer.innerHTML = `<p class="no-books">No books found. Try searching for a different author.</p>`;

          return;

        }

        listContainer.innerHTML = books.map(book => `

          <div class="col-md-4">

            <div class="book-card">

              <div class="card-body">

                <h5>${book.title}</h5>

                <h6>by ${book.author}</h6>

                <p>Price: <strong>$${book.price}</strong></p>

              </div>

            </div>

          </div>

        `).join('');

      } catch (err) {

        listContainer.innerHTML = `<p class="text-danger text-center">Error fetching books. Please try again later.</p>`;

        console.error(err);

      }

    }

    searchInput?.addEventListener('input', e => fetchBooks(e.target.value));

    fetchBooks();

  </script>

</body>

</html>

Add.html:

<!DOCTYPE html>

<html lang="en">

<head>

  <title>Add Book</title>

  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css">

</head>

<body class="p-4">

  <h1>Add a New Book</h1>

  <form id="addBookForm">

    <input class="form-control mb-2" name="title" placeholder="Title" required />

    <input class="form-control mb-2" name="author" placeholder="Author" required />

    <input class="form-control mb-2" name="price" type="number" placeholder="Price" required />

    <button class="btn btn-success">Submit</button>

  </form>

  <script>

    document.getElementById('addBookForm').addEventListener('submit', async (e) => {

      e.preventDefault();

      const formData = new FormData(e.target);

      const data = Object.fromEntries(formData);

      await fetch('http://localhost:5000/api/books', {

        method: 'POST',

        headers: { 'Content-Type': 'application/json' },

        body: JSON.stringify(data)

      });

      alert('Book added!');

      window.location.href = 'index.html';

    });

  </script>

</body>

</html>

Script.js: const listContainer = document.getElementById('bookList');

const searchInput = document.getElementById('authorSearch');

async function fetchBooks(author = '') {

  const res = await fetch(`http://localhost:5000/api/books?author=${author}`);

  const books = await res.json();

  listContainer.innerHTML = books.map(book => `

    <div class="col-md-4 mb-3">

      <div class="card">

        <div class="card-body">

          <h5>${book.title}</h5>

          <p>${book.author}</p>

          <p>$${book.price}</p>

        </div>

      </div>

    </div>

  `).join('');

}

searchInput?.addEventListener('input', e => fetchBooks(e.target.value));

fetchBooks();

Book.js(model):

const mongoose = require('mongoose');

const bookSchema = new mongoose.Schema({

  title: { type: String, required: true },

  author: { type: String, required: true },

  price: { type: Number, required: true }

});

module.exports = mongoose.model('Book', bookSchema);