

# You can create a **simple and functional library book catalog** using **HTML, CSS, and JavaScript**

Below is a complete beginner-friendly example that displays books dynamically from a JavaScript array.

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## □ **Features:**

- HTML structure for the layout
  - CSS for styling the cards and layout
  - JavaScript to generate the book cards dynamically from an array
- 

## □ **1. File Structure**

```
/library-catalog/  
├── index.html  
├── styles.css  
└── script.js
```

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## □ **index.html**

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <title>Library Book Catalog</title>  
  <link rel="stylesheet" href="styles.css">  
</head>  
<body>  
  
  <div class="container">  
    <h1>Library Book Catalog</h1>  
    <div id="book-catalog" class="catalog"></div>  
  </div>  
  
  <script src="script.js"></script>  
</body>  
</html>
```

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## □ styles.css

```
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
  background: #f4f4f4;
}

.container {
  max-width: 1200px;
  margin: 30px auto;
  padding: 0 20px;
}

h1 {
  text-align: center;
  margin-bottom: 30px;
  color: #333;
}

.catalog {
  display: flex;
  flex-wrap: wrap;
  gap: 20px;
  justify-content: center;
}

.book-card {
  background: white;
  border: 1px solid #ddd;
  border-radius: 5px;
  width: 200px;
  box-shadow: 0 2px 5px rgba(0,0,0,0.1);
  transition: transform 0.2s;
}

.book-card:hover {
  transform: translateY(-5px);
}

.book-card img {
  width: 100%;
  height: 280px;
  object-fit: cover;
  border-bottom: 1px solid #eee;
}

.book-info {
  padding: 15px;
}

.book-title {
  font-size: 1.1rem;
  margin-bottom: 5px;
  color: #333;
}
```

```
.book-author {
  font-size: 0.9rem;
  color: #666;
  margin-bottom: 10px;
}

.view-button {
  display: block;
  width: 100%;
  padding: 8px;
  text-align: center;
  background-color: #007bff;
  color: white;
  text-decoration: none;
  border-radius: 4px;
  font-size: 0.9rem;
  transition: background-color 0.2s;
}

.view-button:hover {
  background-color: #0056b3;
}
```

---

## □ script.js

```
// Sample book data (you could load this from a JSON file or API)
const books = [
  {
    title: "The Great Gatsby",
    author: "F. Scott Fitzgerald",
    image: "https://via.placeholder.com/200x280?text=Gatsby"
  },
  {
    title: "1984",
    author: "George Orwell",
    image: "https://via.placeholder.com/200x280?text=1984"
  },
  {
    title: "To Kill a Mockingbird",
    author: "Harper Lee",
    image: "https://via.placeholder.com/200x280?text=Mockingbird"
  },
  {
    title: "The Hobbit",
    author: "J.R.R. Tolkien",
    image: "https://via.placeholder.com/200x280?text=The+Hobbit"
  }
  // Add more books here
];

// Function to display books
function displayBooks() {
  const catalog = document.getElementById("book-catalog");

  books.forEach(book => {
    const card = document.createElement("div");
    card.className = "book-card";
```

```
card.innerHTML = `
  
  <div class="book-info">
    <div class="book-title">${book.title}</div>
    <div class="book-author">by ${book.author}</div>
    <a href="#" class="view-button">View Details</a>
  </div>
`;

catalog.appendChild(card);
});
}

// Call the function on page load
window.onload = displayBooks;
```

---

## □ Live Preview

You can test this by placing all the files in a folder and opening `index.html` in your browser.

Output will be like this :-

