

CODE

HTML (index.html)

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Personal Bucket List</title>

  <link rel="stylesheet" href="styles.css">

</head>

<body>

  <header>

    <nav>

      <ul>

        <li><a href="#">Home</a></li>

        <li><a href="#">Login</a></li>

        <li><a href="#">Register</a></li>

      </ul>

    </nav>

  </header>

  <main>

    <h1>My Bucket List</h1>

    <ul id="bucket-list">

      <!-- List items will be generated dynamically -->

    </ul>

    <form id="add-item-form">
```

```
    <input type="text" id="item-name" placeholder="Add new item">
    <button id="add-item-btn">Add</button>
  </form>
</main>
<script src="script.js"></script>
</body>
</html>
```

CSS (styles.css)

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

```
header {
  background-color: #333;
  color: #fff;
  padding: 1em;
  text-align: center;
}
```

```
nav ul {
  list-style: none;
  margin: 0;
  padding: 0;
  display: flex;
```

```
    justify-content: space-between;
}
```

```
nav li {
    margin-right: 20px;
}
```

```
nav a {
    color: #fff;
    text-decoration: none;
}
```

```
main {
    display: flex;
    flex-direction: column;
    align-items: center;
    padding: 2em;
}
```

```
#bucket-list {
    list-style: none;
    margin: 0;
    padding: 0;
}
```

```
#bucket-list li {
    margin-bottom: 10px;
}
```

```
#add-item-form {  
  margin-top: 20px;  
}
```

```
#add-item-btn {  
  background-color: #333;  
  color: #fff;  
  border: none;  
  padding: 10px 20px;  
  font-size: 16px;  
  cursor: pointer;  
}
```

```
#add-item-btn:hover {  
  background-color: #555;  
}
```

JavaScript (script.js)

```
// Get the bucket list element
```

```
const bucketListElement = document.getElementById('bucket-list');
```

```
// Get the add item form element
```

```
const addFormItemElement = document.getElementById('add-item-form');
```

```
// Get the add item button element
```

```
const addItemBtnElement = document.getElementById('add-item-btn');
```

```
// Define a function to render the bucket list
function renderBucketList(bucketList) {
  // Clear the existing list items
  bucketListElement.innerHTML = "";

  // Loop through the bucket list items and create list items
  bucketList.forEach((item) => {
    const listItemElement = document.createElement('li');
    listItemElement.textContent = item.name;
    bucketListElement.appendChild(listItemElement);
  });
}

// Define a function to handle adding a new item
function handleAddItem(event) {
  // Prevent the default form submission behavior
  event.preventDefault();

  // Get the item name from the input field
  const itemName = document.getElementById('item-name').value;

  // Create a new item object
  const newItem = { name: itemName };

  // Add the new item to the bucket list
  bucketList.push(newItem);

  // Render the updated bucket list
  renderBucketList(bucketList);
}
```

```
// Clear the input field
document.getElementById('item-name').value = '';
}

// Add an event listener to the add item button
addItemBtnElement.addEventListener('click', handleAddItem);

// Initialize the bucket list
const bucketList = [];

// Render the initial bucket list
renderBucketList(bucketList);
```

Back-end (Server-side)

Node.js (server.js)

```
const express = require('express');
const app = express();
const mongoose = require('mongoose');

// Connect to the MongoDB database
mongoose.connect('mongodb://localhost/bucket-list', { useNewUrlParser: true, useUnifiedTopology: true });

// Define a schema for the bucket list items
const itemSchema = new mongoose.Schema({
  name: String
```

```
});
```

```
// Create a model for the bucket list items
```

```
const Item = mongoose.model('Item', itemSchema);
```

```
// Define a route to get all bucket list items
```

```
app.get('/api/items', async (req, res) => {
```

```
  const items = await Item.find();
```

```
  res.json(items);
```

```
});
```

```
// Define a route to add a new bucket list item
```

```
App
```

OUTPUT

- [Home](#)
- [Login](#)
- [Register](#)

My Bucket List

Saved Info

×

Travel to Japan: Visit Tokyo, Kyoto, and Osaka, an...

Learn to play the guitar: Take lessons and practic...

Run a marathon: Train and participate in a marat...

Write a book: Plan, research, and write a book on...

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