

# Front -End :

## HTML:

```
html
<!DOCTYPE html>
<html>
<head>
  <title>Brrrgrrr - Custom Burgers</title>
  <script src="script.js" defer></script>
</head>
<body>
  <h1>Welcome to Brrrgrrr!</h1>
  <h2>Customize Your Burger</h2>

  <h3>Ingredients:</h3>
  <ul id="ingredientsList">
    <!-- Ingredients will be dynamically added here -->
  </ul>

  <h3>Your Burger:</h3>
  <ul id="burgerList">
    <!-- Burger ingredients will be dynamically added here -->
  </ul>

  <button id="createBurgerBtn">Create Burger</button>

</body>
</html>
```

## JavaScript (script.js):

```
javascript
// Available ingredients
const ingredients = [
  { id: 1, name: 'Lettuce', price: 1.5 },
  { id: 2, name: 'Tomato', price: 1 },
  { id: 3, name: 'Onion', price: 0.5 },
  { id: 4, name: 'Cheese', price: 2 },
  { id: 5, name: 'Bacon', price: 2.5 }
];

// Function to dynamically create ingredient list
const renderIngredients = () => {
  const ingredientsList = document.getElementById('ingredientsList');
  ingredientsList.innerHTML = "";

  ingredients.forEach(ingredient => {
    const li = document.createElement('li');
    li.textContent = `${ingredient.name} - ${ingredient.price.toFixed(2)} `;
    li.dataset.id = ingredient.id;
    ingredientsList.appendChild(li);
  });
};
```

```

// Function to dynamically create burger list
const renderBurger = (burger) => {
  const burgerList = document.getElementById('burgerList');
  burgerList.innerHTML = "";

  burger.forEach(ingredientId => {
    const ingredient = ingredients.find(i => i.id === ingredientId);
    const li = document.createElement('li');
    li.textContent = `${ingredient.name} - ${ingredient.price.toFixed(2)}`;
    burgerList.appendChild(li);
  });
};

// Function to handle ingredient click event
const handleIngredientClick = (event) => {
  const ingredientId = parseInt(event.target.dataset.id);
  if (!isNaN(ingredientId)) {
    burger.push(ingredientId); // Add the selected ingredient to the burger array
    renderBurger(burger);
  }
};

// Function to handle create burger button click event
const handleCreateBurgerClick = () => {
  const totalPrice = burger.reduce((total, ingredientId) => {
    const ingredient = ingredients.find(i => i.id === ingredientId);
    return total + ingredient.price;
  }, 0);

  alert(`Your custom burger is ready! Total price: ${totalPrice.toFixed(2)}`);
  burger = []; // Reset the burger array
  renderBurger(burger);
};

// Event listeners
document.addEventListener('DOMContentLoaded', () => {
  renderIngredients();
});

const ingredientsList = document.getElementById('ingredientsList');
ingredientsList.addEventListener('click', handleIngredientClick);

const createBurgerBtn = document.getElementById('createBurgerBtn');
createBurgerBtn.addEventListener('click', handleCreateBurgerClick);

// Initial burger array
let burger = [];

```

the backend implementation for the Brrrgrrr website using Node.js and Express.js:

## Back-end (Node.js with Express.js):

```
// Import required modules
const express = require('express');
const bodyParser = require('body-parser');

// Initialize the Express app
const app = express();
const port = 3000;

// Middleware for parsing JSON data
app.use(bodyParser.json());

// Define the ingredients array
let ingredients = [
  { id: 1, name: 'Lettuce', price: 1.5 },
  { id: 2, name: 'Tomato', price: 1 },
  { id: 3, name: 'Onion', price: 0.5 },
  { id: 4, name: 'Cheese', price: 2 },
  { id: 5, name: 'Bacon', price: 2.5 }
];

// Define the burgers array
let burgers = [];

// Get all ingredients
app.get('/api/ingredients', (req, res) => {
  res.json(ingredients);
});

// Create a new burger
app.post('/api/burgers', (req, res) => {
  const burger = req.body;
  burgers.push(burger);
  res.json({ message: 'Burger created successfully!' });
});

// Get all burgers
app.get('/api/burgers', (req, res) => {
  res.json(burgers);
});

// Start the server
app.listen(port, () => {
  console.log(`Server running on port ${port}`);
});
```