

```
document.addEventListener('DOMContentLoaded', () => {  
  const fridgeTempSpan = document.getElementById('fridge-temp');  
  const freezerTempSpan = document.getElementById('freezer-temp');  
  const foodList = document.getElementById('food-list');  
  const alertList = document.getElementById('alert-list');  
  const addItemBtn = document.getElementById('add-item-btn');
```

```
  // Function to fetch sensor data (e.g., temperature)
```

```
  async function fetchSensorData() {  
    try {  
      // Replace with your actual API endpoint for sensor data  
      const response = await fetch('/api/sensor-data');  
      const data = await response.json();  
      fridgeTempSpan.textContent = data.fridgeTemperature;  
      freezerTempSpan.textContent = data.freezerTemperature;  
    } catch (error) {  
      console.error('Error fetching sensor data:', error);  
      fridgeTempSpan.textContent = 'N/A';  
      freezerTempSpan.textContent = 'N/A';  
    }  
  }  
}
```

```
  // Function to fetch food inventory
```

```
  async function fetchFoodInventory() {  
    try {  
      // Replace with your actual API endpoint for food inventory
```

```

const response = await fetch('/api/food-inventory');

const items = await response.json();

foodList.innerHTML = ""; // Clear existing list

items.forEach(item => {

    const li = document.createElement('li');

    li.textContent = `${item.name} (Qty: ${item.quantity}, Exp: ${item.expiryDate})`;

    foodList.appendChild(li);

});

} catch (error) {

    console.error('Error fetching food inventory:', error);

}

}

```

```

// Function to fetch alerts

async function fetchAlerts() {

    try {

        // Replace with your actual API endpoint for alerts

        const response = await fetch('/api/alerts');

        const alerts = await response.json();

        alertList.innerHTML = ""; // Clear existing list

        alerts.forEach(alert => {

            const li = document.createElement('li');

            li.textContent = alert.message;

            alertList.appendChild(li);

        });

    } catch (error) {

```

```
        console.error('Error fetching alerts:', error);
    }
}
```

```
// Event listener for adding new items (example)
```

```
addItemBtn.addEventListener('click', () => {
    const newItemName = prompt('Enter new food item name:');
    if (newItemName) {
        // In a real application, you would send this to your backend/IoT device
        console.log(` Adding new item: ${newItemName}` );
        // Re-fetch inventory after adding
        fetchFoodInventory();
    }
});
```

```
// Initial data load and periodic updates
```

```
fetchSensorData();
fetchFoodInventory();
fetchAlerts();
```

```
// Update data every 5 seconds (adjust as needed)
```

```
setInterval(fetchSensorData, 5000);
setInterval(fetchFoodInventory, 10000);
setInterval(fetchAlerts, 15000);
});
```