

3 Number of available books 4 Any of the itemIDs from books in the catalog/all is valid

## Thoughts

It is incredible how much time I spent on this. I do not have much experience with javascript. At least now I finally know what people without programming experience feel like doing this degree.

I struggled with the vagueness of js. For example, I accidentally used the taken field `this.response`, which caused an annoying bug.

At the end, I got it to work. 😊

## index.js, loaded in index.html

```
let jsonResponses;

function loadBooks(event) {
  if (event.code === "Enter") {
    let category = document.getElementById("search").value;
    if(!(category === "kids" || category === "tech")){
      console.log("Invalid category");
      document.getElementById("items").textContent = "Invalid category";
    }
    else {
      let xhr = new XMLHttpRequest();
      xhr.onload = function() {
        if (this.status === 200) {
          renderBooks(this.responseText);
        }
      };

      xhr.open("GET", "http://localhost:8080/onlineStore/rest/" +
category, true);
      xhr.send();
    }
  }
}

function addToCart(book) {
  let responseItem = {
    "item": book,
    "numItems": 1
  };
  let json = JSON.stringify([responseItem]);
  let xhr = new XMLHttpRequest();
  xhr.onreadystatechange = function() {
    if(this.readyState === 4) {
      refreshCosts();
    }
  };
  xhr.open("POST", "http://localhost:8080/onlineStore/rest/cart", true);
```

```

    xhr.setRequestHeader("Content-Type", "application/json");
    xhr.send(json);
}

function refreshCosts() {
    let xhr = new XMLHttpRequest();
    xhr.onreadystatechange = function() {
        if (this.readyState === 4 && this.status === 200) {
            document.getElementById("costs").textContent = this.responseText;
        }
    };
    xhr.open("GET", "http://localhost:8080/onlineStore/rest/cart/costs",
true);
    xhr.send();
}

function renderBooks(responseText) {
    jsonResponses = JSON.parse(responseText);
    let table = document.createElement("table");
    let itemsElement = document.getElementById("items");
    itemsElement.replaceChildren(table);

    for (i in jsonResponses) {
        let row = document.createElement("tr");
        table.appendChild(row);

        let column1 = document.createElement("td");
        row.appendChild(column1);
        column1.innerHTML = jsonResponses[i].shortDescription;

        let column2 = document.createElement("td");
        row.appendChild(column2);
        let button = document.createElement("button");
        button.setAttribute("onclick", "addToCart(" +
JSON.stringify(jsonResponses[i]) + ")");
        button.innerText = "Order!";
        column2.appendChild(button);
    }
}

```

## checkout.js, loaded in checkout.html

```

let xhr = new XMLHttpRequest();
xhr.open('GET', 'http://localhost:8080/onlineStore/rest/cart', true);
xhr.onload=function(){
    if (this.status === 200) {
        renderBooks(this.responseText);
    } else {
        console.log('state ' + this.readyState + '\tstatus: ' +
this.status);
    }
}

```

```

};
xhr.send()

function renderBooks(responseText) {
  jsonResponses = JSON.parse(responseText);
  let itemsElement = document.getElementById("items");
  let table = document.createElement("table");
  itemsElement.replaceChildren(table);

  for (i in jsonResponses) {
    let book = jsonResponses[i].item;
    let row = document.createElement("tr");
    table.appendChild(row);

    let column1 = document.createElement("td");
    row.appendChild(column1);
    let parsedHtml = new
DOMParser().parseFromString(book.shortDescription, "text/html").body;
    column1.appendChild(parsedHtml);

    let column2 = document.createElement("td");
    row.appendChild(column2);
    column2.textContent = jsonResponses[i].numItems + " x " +
book.cost;

    let column3 = document.createElement("td");
    row.appendChild(column3);
    column3.textContent = jsonResponses[i].numItems * book.cost;
  }
}

```