

Chris Moroney

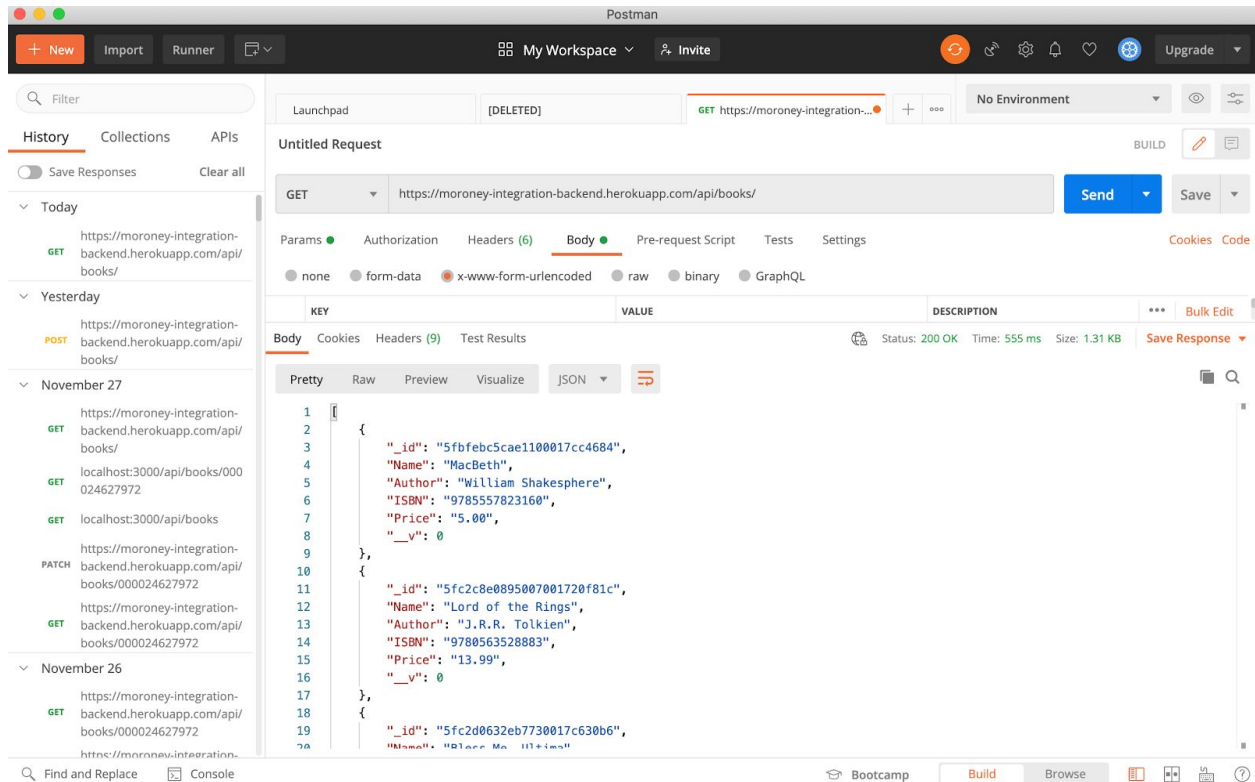
Professor Arias

CSC 3221

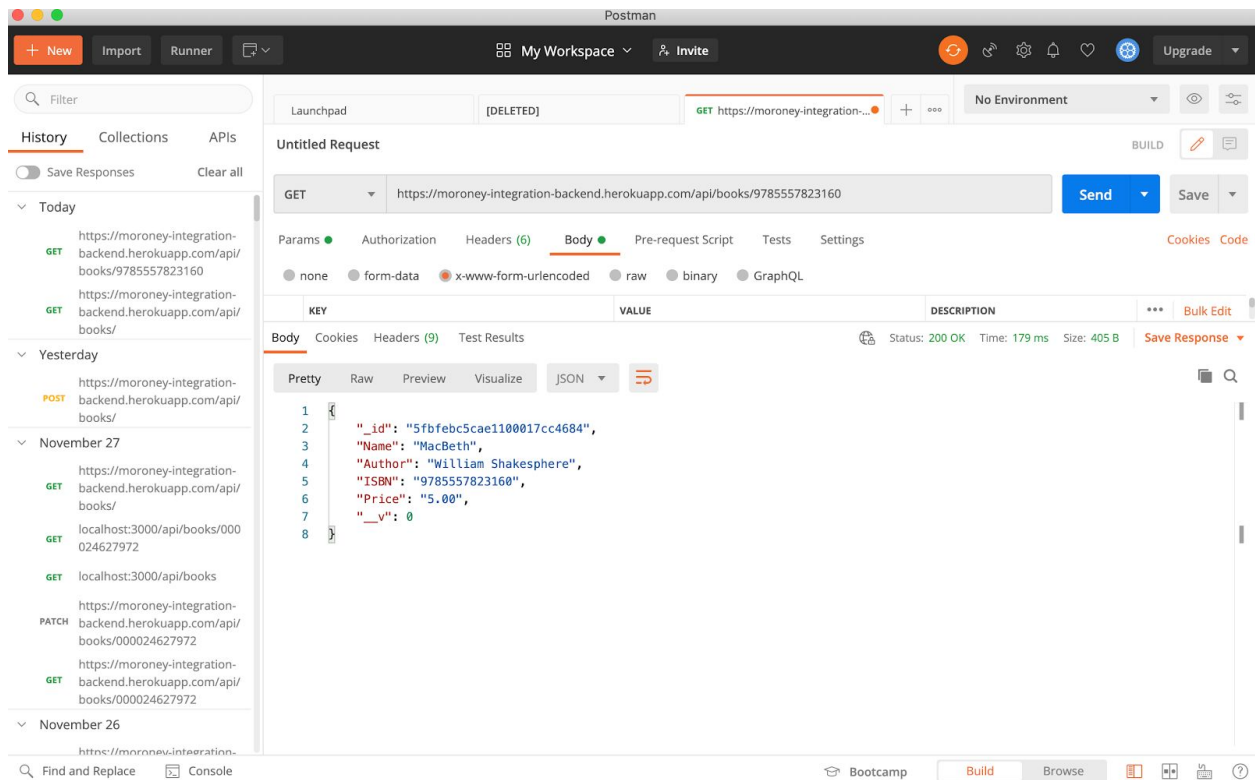
Due 29 November 2020

CSC 3221 API Integration

1) Screenshot showing testing each of the operations of the API on Postman (make sure the URL is visible)



API backend in Postman -- GET



API backend in Postman -- GET /:isbn

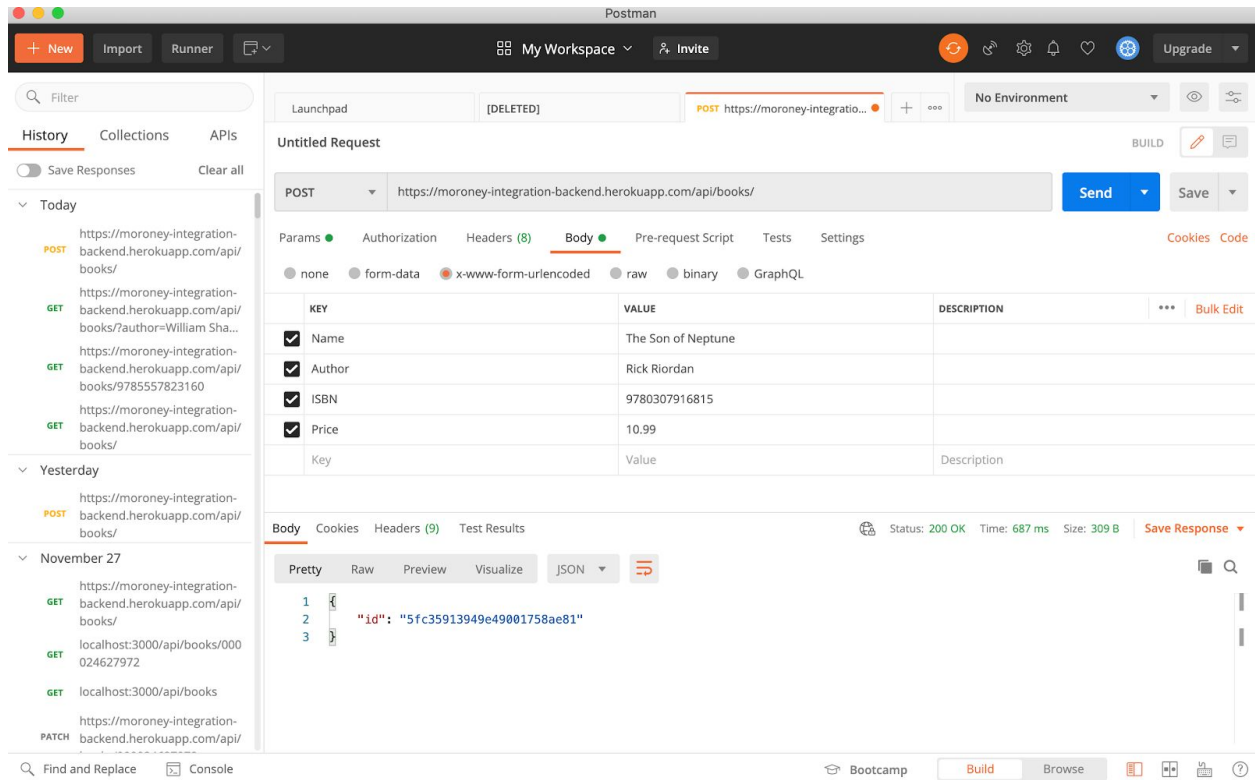
The screenshot shows the Postman application interface. On the left, the 'History' tab is active, displaying a list of recent requests. The main workspace shows an 'Untitled Request' with the following details:

- Method:** GET
- URL:** `https://moroney-integration-backend.herokuapp.com/api/books/?author=William Shakespeare`
- Body:** The response is displayed in the 'Body' tab, showing a JSON array of book objects. The first two objects are:

```
[{"_id": "5fbfbc5cae1100017cc4684", "Name": "MacBeth", "Author": "William Shakespeare", "ISBN": "9785557823160", "Price": "5.00", "__v": 0}, {"_id": "5fc34e2c949e49001758ae7d", "Name": "Othello", "Author": "William Shakespeare", "ISBN": "9781932219661", "Price": "12.99", "__v": 0}]
```
- Status:** 200 OK
- Time:** 179 ms
- Size:** 806 B

The bottom of the interface shows the 'Find and Replace' and 'Console' tabs, along with the 'Build' and 'Browse' buttons.

API backend on Postman -- GET `/?author=name`



API backend on Postman -- POST

The screenshot shows the Postman interface with a PATCH request configured. The URL is `https://moroney-integration-backend.herokuapp.com/api/books/9780141023380`. The request body is a JSON object representing a book update.

Request Details:

- Method: PATCH
- URL: `https://moroney-integration-backend.herokuapp.com/api/books/9780141023380`
- Body Type: x-www-form-urlencoded

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> Name	Frankenstein	
<input checked="" type="checkbox"/> Author	Mary Shelley	
<input type="checkbox"/> ISBN	9780307916815	
<input type="checkbox"/> Price	10.99	
Key	Value	Description

Response Details:

- Status: 200 OK
- Time: 625 ms
- Size: 404 B

Response Body (JSON):

```

1 {
2   "_id": "5fc35183949e49001758ae80",
3   "Name": "Frankenstein",
4   "Author": "Mary Shelley",
5   "ISBN": "9780141023380",
6   "Price": "13.99",
7   "__v": 0
8 }

```

API backend on Postman -- PATCH /:isbn

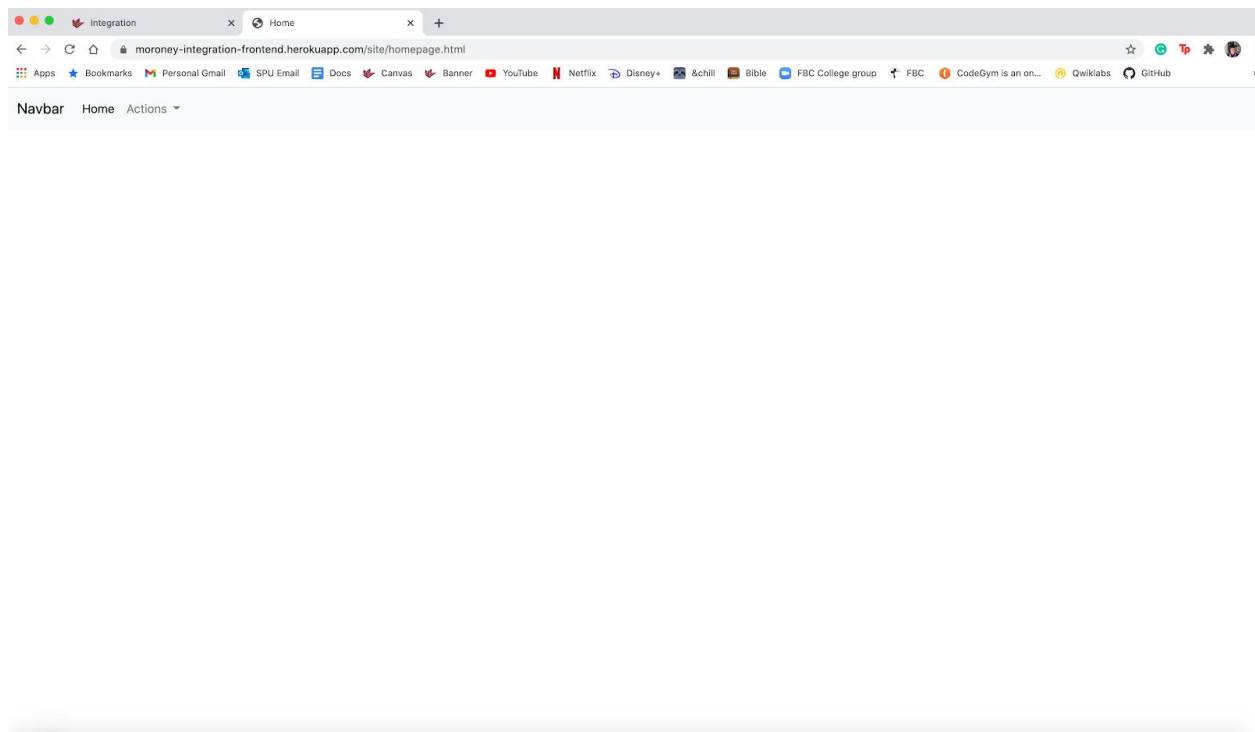
The screenshot shows the Postman application interface. On the left, the 'History' tab is active, displaying a list of recent requests. The main workspace shows an 'Untitled Request' with a DELETE method targeting the URL `https://moroney-integration-backend.herokuapp.com/api/books/9780141023380`. The request body is configured as 'x-www-form-urlencoded' with the following fields:

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> Name	Frankenstein	
<input checked="" type="checkbox"/> Author	Mary Shelley	
<input type="checkbox"/> ISBN	9780307916815	
<input type="checkbox"/> Price	10.99	
Key	Value	Description

The response is displayed in the 'Body' tab, showing a JSON object: `{"deletedISBN": "9780141023380"}`. The status is 200 OK, with a time of 615 ms and a size of 307 B.

API backend on Postman -- DELETE /:isbn

2) Screenshot of the home page of the client (make sure the URL is visible)



Front end API home page on Heroku

3) Screenshot of the Add / Successful add Page

The screenshot shows a web browser window with the address bar displaying 'moroney-integration-frontend.herokuapp.com/site/add.html'. The page has a light gray header with a 'Navbar' containing 'Home' and 'Actions' (with a dropdown arrow). The main content area is titled 'Add Book' in a large, bold, black font. Below the title, a subtitle reads 'To add a book, please provide your book information below'. The form consists of four labeled input fields: 'Book Name:' with a placeholder 'Name', 'Author:' with a placeholder 'Author', 'ISBN (no characters):' with a placeholder '00000000000000', and 'Price:' with a placeholder '10.00'. Below these fields is a large, empty light gray rectangular box. At the bottom of the form is a teal button with the text 'Add book' in white.

Front end API Add Book page on Heroku

Integration x Add Book x Not Forgotten: Day, Alexandr x +

moroney-integration-frontend.herokuapp.com/site/add.html

Apps Bookmarks Personal Gmail SPU Email Docs Canvas Banner YouTube Netflix Disney+ &chill Bible FBC College group FBC CodeGym is an on... Qwiklabs GitHub

Navbar Home Actions

Add Book

To add a book, please provide your book information below

Book Name:

Author:

ISBN (no characters):

Price:

```
{"id":"5fc35bc5949e49001758ae82"}
```

Successfully added book to catalog!

Add book

Successfully adding a book on front-end client

Integration x Add Book x +

moroney-integration-frontend.herokuapp.com/site/add.html

Apps Bookmarks Personal Gmail SPU Email Docs Canvas Banner YouTube Netflix Disney+ &chill Bible FBC College group FBC CodeGym is an on... Gwiklabs GitHub

Navbar Home Actions

Add Book

To add a book, please provide your book information below

Book Name:

Author:

ISBN (no characters):

Price:

Please enter a valid ISBN (any region, no characters). Use the following equation to help with formatting:

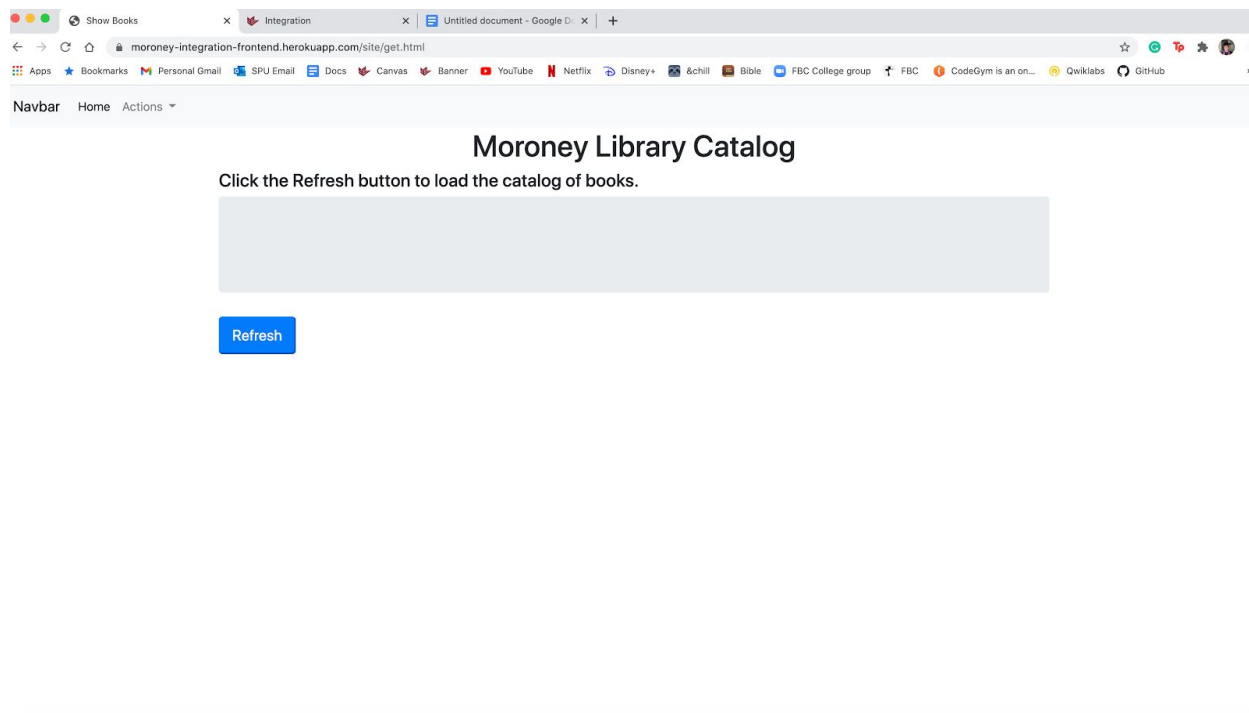
$$(x_1 + 3x_2 + x_3 + 3x_4 + x_5 + 3x_6 + x_7 + 3x_8 + x_9 + 3x_{10} + x_{11} + 3x_{12} + x_{13}) \% 10 = 0 \pmod{10}$$

Add book

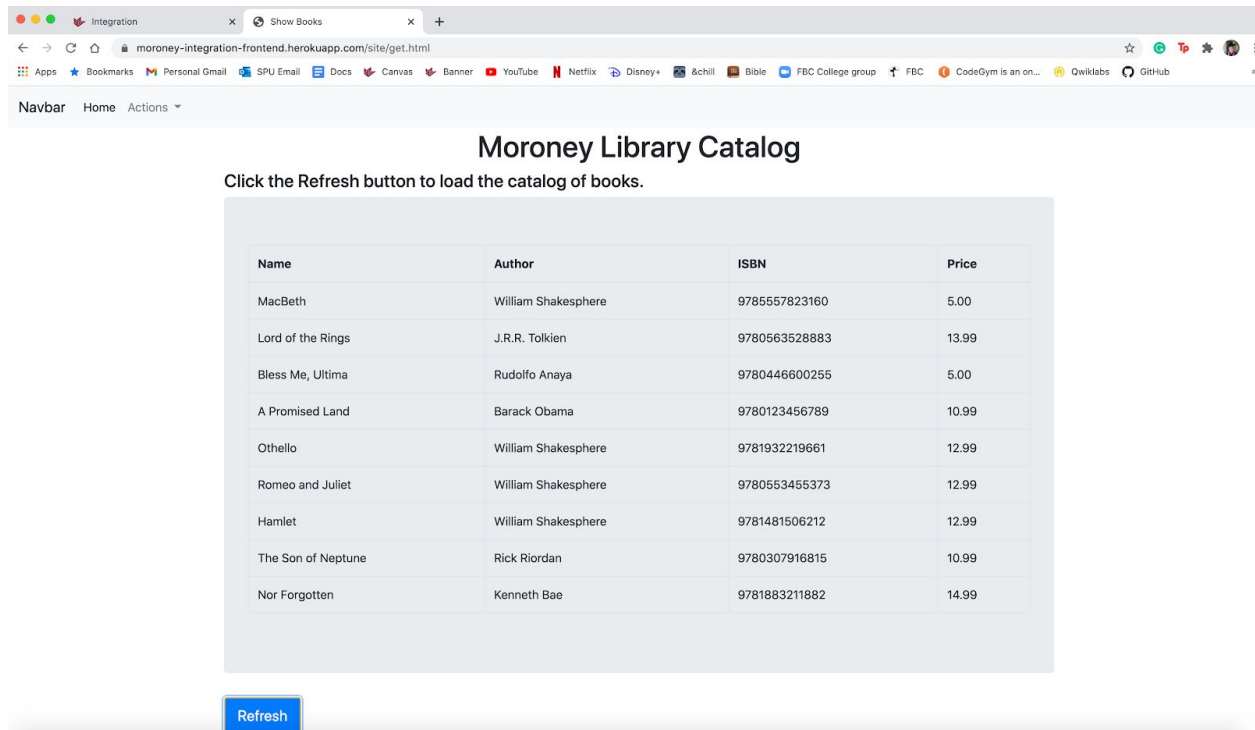
Adding a book on the front end client with an illegal ISBN.

Adding a book on the front end client without completing all fields.

4) Screenshot of the Show Books page



Front end API Show Books page on Heroku



Moroney Library Catalog

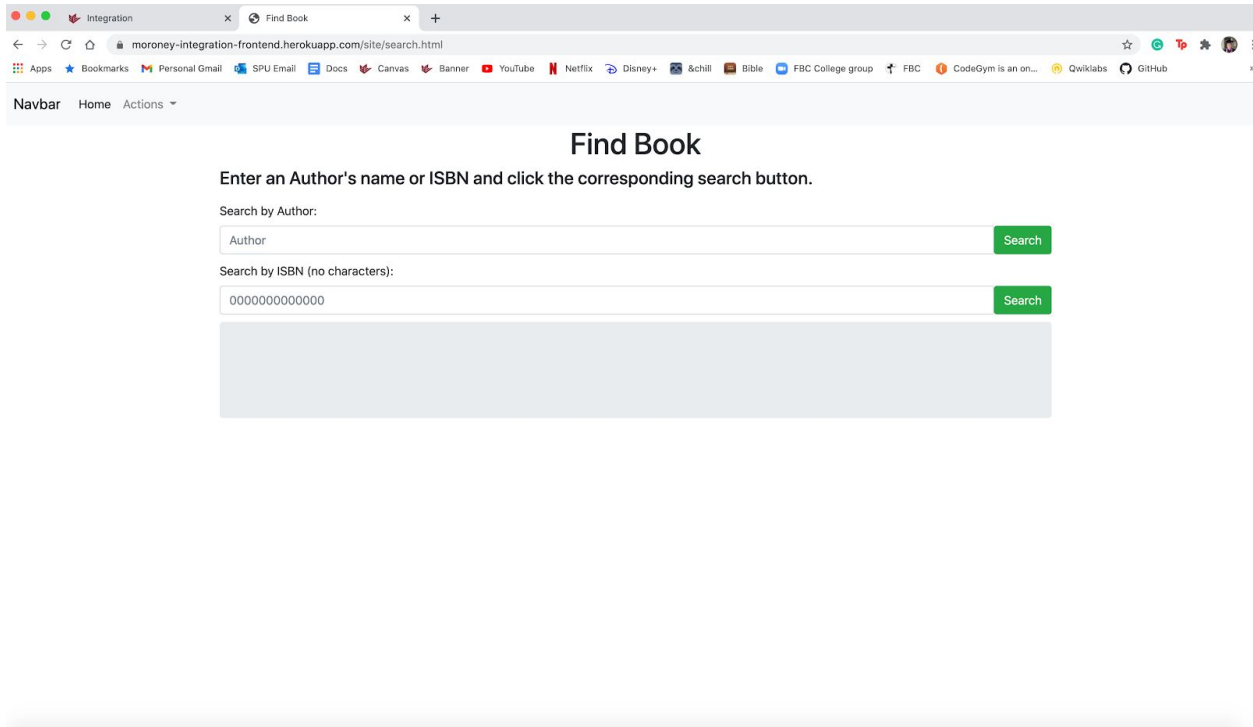
Click the Refresh button to load the catalog of books.

Name	Author	ISBN	Price
MacBeth	William Shakesphere	9785557823160	5.00
Lord of the Rings	J.R.R. Tolkien	9780563528883	13.99
Bless Me, Ultima	Rudolfo Anaya	9780446600255	5.00
A Promised Land	Barack Obama	9780123456789	10.99
Othello	William Shakesphere	9781932219661	12.99
Romeo and Juliet	William Shakesphere	9780553455373	12.99
Hamlet	William Shakesphere	9781481506212	12.99
The Son of Neptune	Rick Riordan	9780307916815	10.99
Nor Forgotten	Kenneth Bae	9781883211882	14.99

Refresh

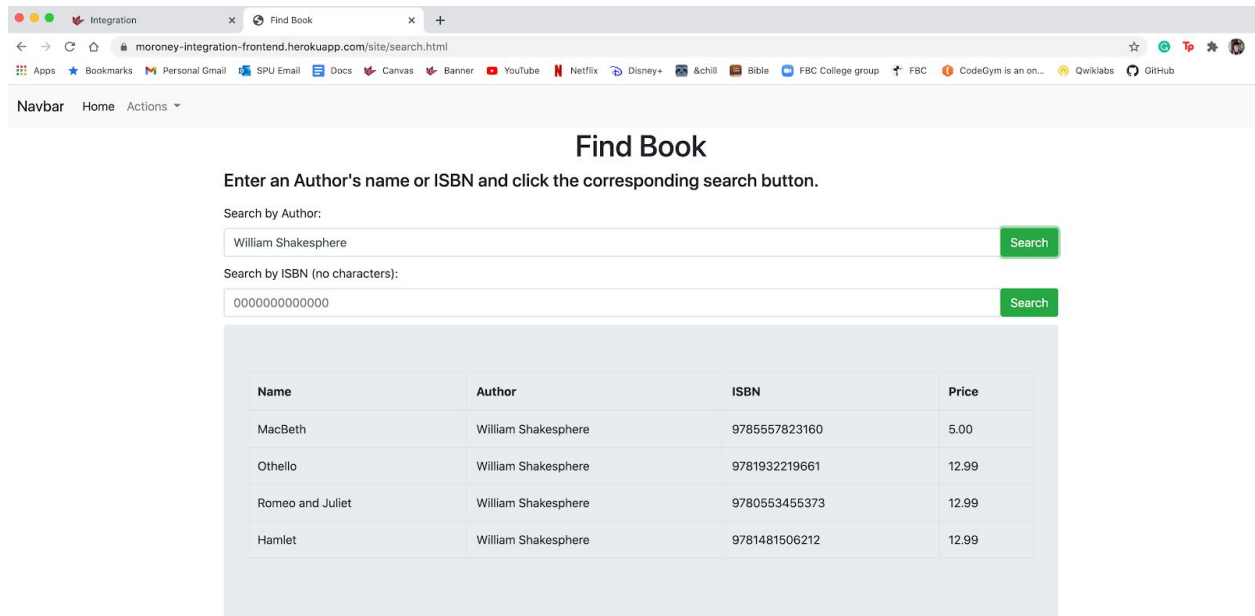
Successfully loading all of the books to become visible (hitting refresh button).

5) Screenshot of Find Books page, find by ISBN, find by Author Name



The screenshot shows a web browser window with the title "Find Book". The address bar displays the URL "moroney-integration-frontend.herokuapp.com/site/search.html". The browser's bookmark bar is visible with various links. The page content includes a heading "Find Book" and a prompt: "Enter an Author's name or ISBN and click the corresponding search button." Below this, there are two search sections. The first section, "Search by Author:", has a text input field containing the word "Author" and a green "Search" button. The second section, "Search by ISBN (no characters):", has a text input field containing the number "0000000000000" and a green "Search" button. A large, empty light gray rectangular box is positioned below the ISBN search section.

Front end API Find Book page on Heroku



Integration x Find Book x +

moroney-integration-frontend.herokuapp.com/site/search.html

Apps Bookmarks Personal Gmail SPU Email Docs Canvas Banner YouTube Netflix Disney+ &chill Bible FBC College group FBC CodeGym is an on... Qwiklabs GitHub

Navbar Home Actions

Find Book

Enter an Author's name or ISBN and click the corresponding search button.

Search by Author:

William Shakesphere Search

Search by ISBN (no characters):

000000000000 Search

Name	Author	ISBN	Price
MacBeth	William Shakesphere	9785557823160	5.00
Othello	William Shakesphere	9781932219661	12.99
Romeo and Juliet	William Shakesphere	9780553455373	12.99
Hamlet	William Shakesphere	9781481506212	12.99

Searching list of books by searching Author.

Find Book

Enter an Author's name or ISBN and click the corresponding search button.

Search by Author:

Author Search

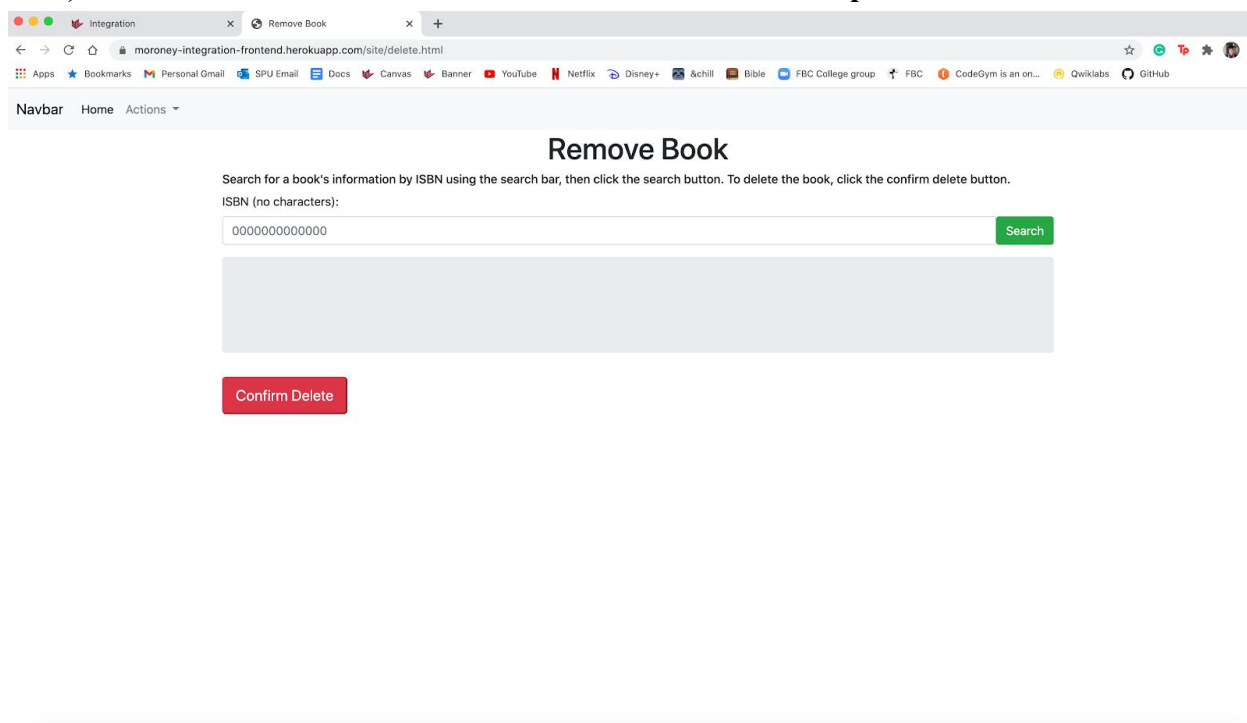
Search by ISBN (no characters):

9781481506212 Search

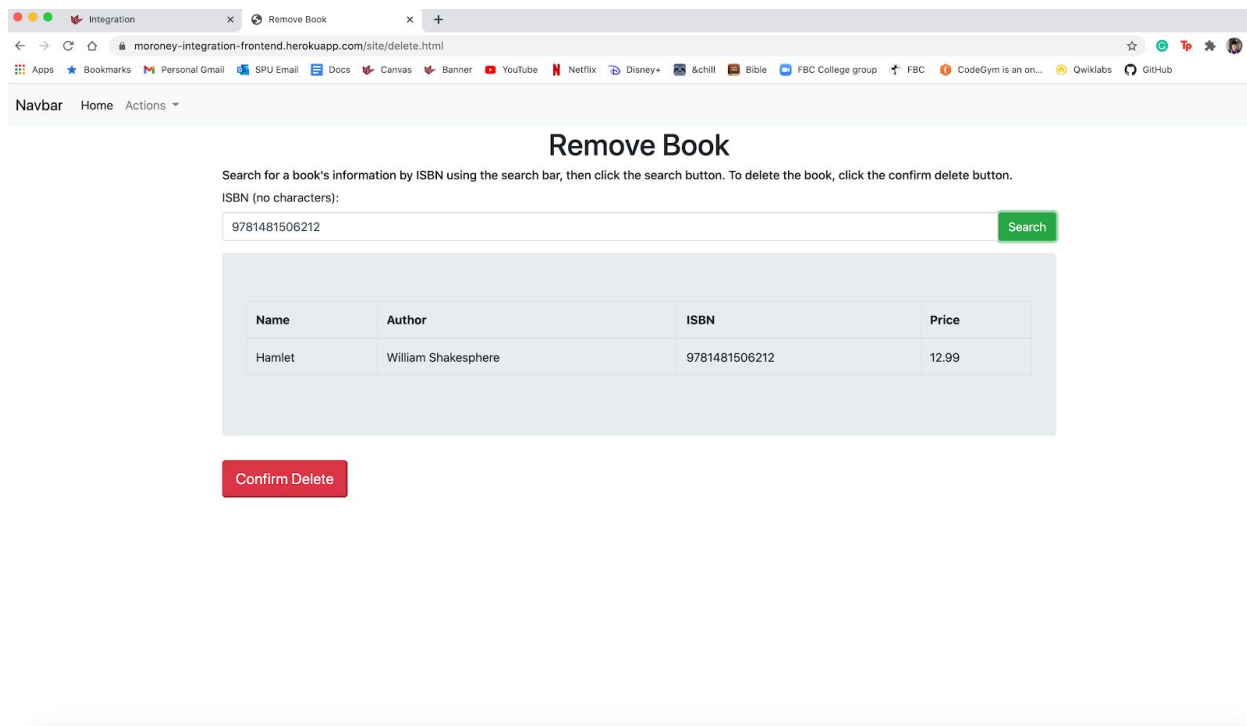
Name	Author	ISBN	Price
Hamlet	William Shakesphere	9781481506212	12.99

Searching list of books by searching ISBN.

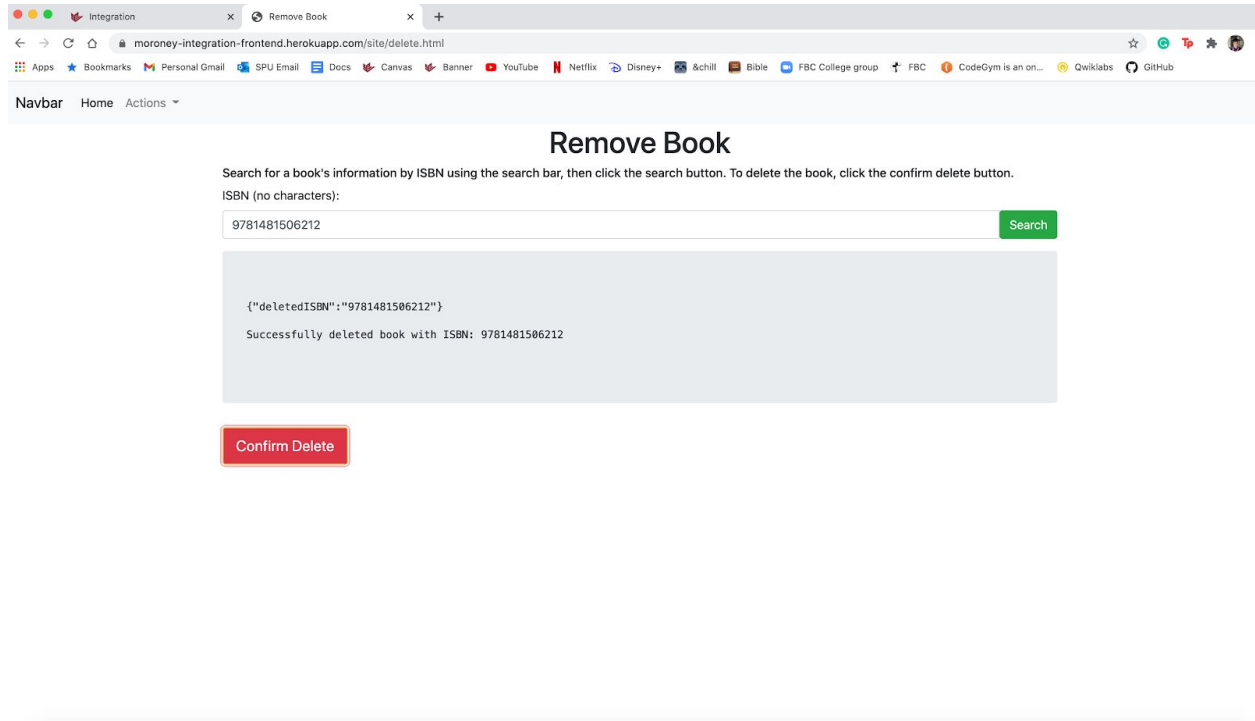
6) Screenshot of the Find/Delete/Successful/Error delete operation



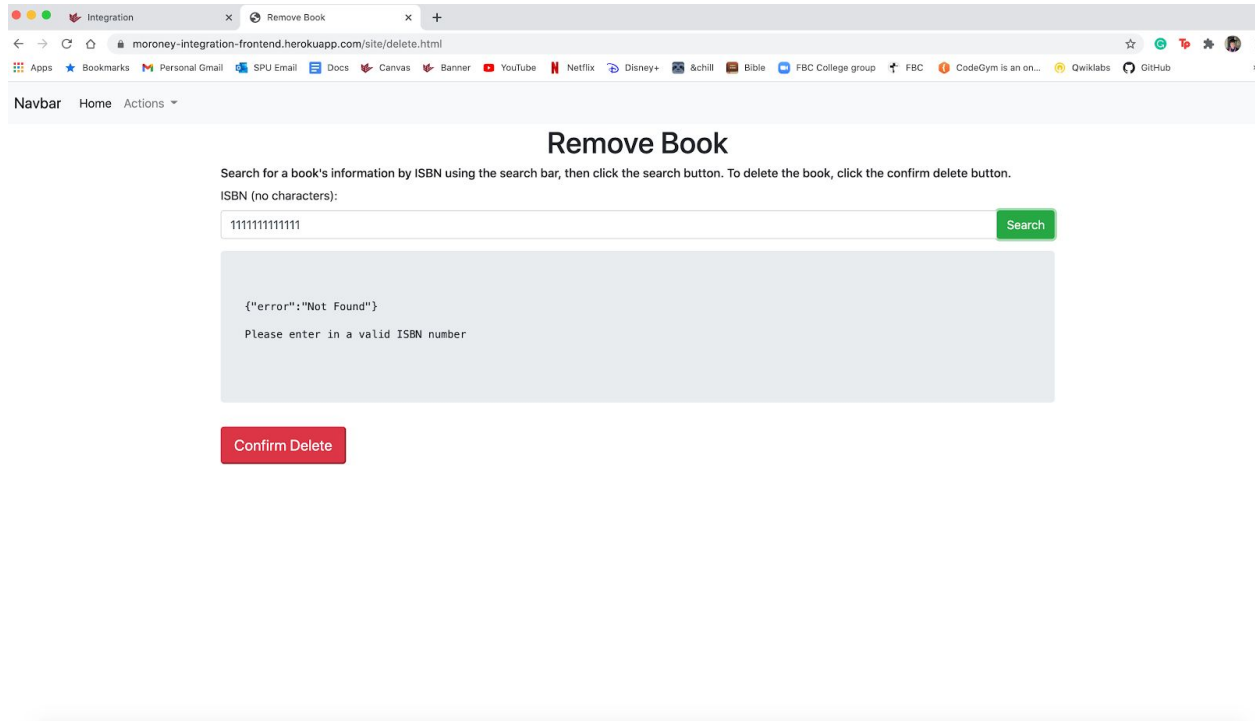
Front end API Remove Book page on Heroku



Successfully searching for an ISBN with the search button in the remove page.



Successfully deleting the book with the given ISBN after clicking the Confirm Delete button.



Attempting to find a book with the given ISBN number, but fails because the ISBN doesn't exist in the catalog.

The screenshot shows a web browser window with two tabs: 'Integration' and 'Remove Book'. The address bar shows the URL 'moroney-integration-frontend.herokuapp.com/site/delete.html'. The browser's bookmark bar contains various links like 'Apps', 'Bookmarks', 'Personal Gmail', 'SPU Email', 'Docs', 'Canvas', 'Banner', 'YouTube', 'Netflix', 'Disney+', 'iSchill', 'Bible', 'FBC College group', 'FBC', 'CodeGym is an on...', 'Qwiklabs', and 'GitHub'. The page title is 'Remove Book'. Below the title, there is a text instruction: 'Search for a book's information by ISBN using the search bar, then click the search button. To delete the book, click the confirm delete button.' Below this, there is a label 'ISBN (no characters):' followed by a text input field containing '11111111111111' and a green 'Search' button. Below the input field is a light gray message box with the text 'Please input a valid ISBN number.' At the bottom of the form is a red 'Confirm Delete' button.

Attempting to delete a book with the given ISBN number, but fails because the ISBN doesn't exist in the catalog.

7) Screenshot of the Find/Update/Successful/Error update operation

The screenshot shows a web browser window with the title 'Update Book'. The address bar displays 'moroney-integration-frontend.herokuapp.com/site/update.html'. The browser's bookmark bar includes links to 'Apps', 'Bookmarks', 'Personal Gmail', 'SPU Email', 'Docs', 'Canvas', 'Banner', 'YouTube', 'Netflix', 'Disney+', '&chill', 'Bible', 'FBC College group', 'FBC', 'CodeGym is an on...', 'Qwiklabs', and 'GitHub'. The page has a 'Navbar' with 'Home' and 'Actions' links. The main heading is 'Update Book'. Below it, a message reads: 'Search for a book and its information, then click the search button once you have found one valid book.' This is followed by a form for 'ISBN (no characters):' with the value '0000000000000' and a green 'Search' button. A large light blue rectangular area is positioned below the search section. Another message states: 'Please provide the new book information below. At least one field must be filled in.' This is followed by three input fields: 'Name:', 'Author:', and 'Price:'. The 'Name' field contains the text 'Name', the 'Author' field contains 'Author', and the 'Price' field contains '10.00'. Below these fields is another large light blue rectangular area. At the bottom of the form is an orange 'Update book' button.

Front end API Update Book page on Heroku

Update Book

Search for a book and its information, then click the search button once you have found one valid book.

ISBN (no characters):

9780446600255 Search

Name	Author	ISBN	Price
Bless Me, Ultima	Rudolfo Anaya	9780446600255	5.00

Please provide the new book information below. At least one field must be filled in.

Name:

Author:

Price:

Successfully finding a book in the update page with an inputted ISBN in the search section.

Integration x bless me, ultima 9780446601 x Update Book x +

moroney-integration-frontend.herokuapp.com/site/update.html

Apps Bookmarks Personal Gmail SPU Email Docs Canvas Banner YouTube Netflix Disney+ &chill Bible FBC College group FBC CodeGym is an on... Qwiklabs GitHub

Enter the original book's ISBN number. Use the search button to help find your book.

ISBN (no characters):

111111111000 Search

```
{"error":"Not Found"}
```

Please enter in a valid ISBN number

Please provide the new book information below. At least one field must be filled in.

Name:

Name

Author:

Author

Price:

10.00

Please fill in at least one field above

Update book

Attempting to find a book with the given ISBN number, but failing because the given ISBN is not in the library catalog.

Integration

bless me, ultima 9780446601

Update Book

moroney-integration-frontend.herokuapp.com/site/update.html

Apps Bookmarks Personal Gmail SPU Email Docs Canvas Banner YouTube Netflix Disney+ &chill Bible FBC College group FBC CodeGym is an on... Qwiklabs GitHub

Name	Author	ISBN	Price
Bless Me, Ultima	Rudolfo Anaya	9785557823160	12.99

Please provide the new book information below. At least one field must be filled in.

Name:

Author:

Price:

Name	Author	ISBN	Price
Frankenstein	Mary Shelley	9785557823160	12.99

Successfully updated book to the catalog!

Update book

With the inputted ISBN at the top (same as previous successful ISBN), the information is updated successfully with a new Name and new Author.

8) URL of the Backend server

<https://moroney-integration-backend.herokuapp.com/api/books/>

9) URL of the Frontend server

<https://moroney-integration-frontend.herokuapp.com/site/homepage.html>