Final Project: booksmart
Zeke Van Dehy

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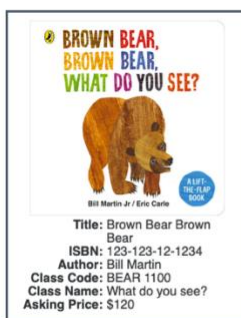booksmart • View All Textbooks • Sell Your textbook • Welcome, fishy! • Logout

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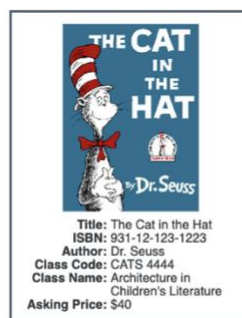
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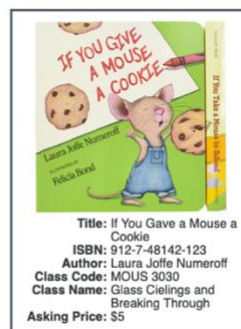
Architecture

Title: Brown Bear Brown Bear
ISBN: 123-123-12-1234
Author: Bill Martin
Class Code: BEAR 1100
Class Name: What do you see?
Asking Price: $120

Title: The Cat in the Hat
ISBN: 931-12-123-1223
Author: Dr. Seuss
Class Code: CATS 4444
Class Name: Architecture in Children's Literature
Asking Price: $40

Title: If You Gave a Mouse a Cookie
ISBN: 912-7-48142-123
Author: Laura Joffe Numeroff
Class Code: MOUS 3030
Class Name: Glass Ceilings and Breaking Through
Asking Price: $5

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The Cat in the Hat

$40

Textbook Info

ISBN:	978-2-0067-0702-2
Author:	Dr. Seuss
Quality:	Good

Class Info

Subject:	Architecture
Class Code:	CATS 4444
Class Name:	Architecture in Children's Literature
Last Prof:	Dr. Seuss

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Textbook Info

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Quality:	Good

Class Info

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Class Code:	CATS 4444
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Textbook Title * All about Fish

Asking Price ($) * 22.22

Textbook Info

Textbook Author * Sharky Shark
Textbook ISBN * 912-1-12-12312
Textbook Quality * Very Good
Image Url* https://images-na.ssl-images-amazon.com/images/I/51rYOtjqSIL._SX396_BO1,204,203

Class Info

Subject Area * Computer Science
Class Code HLTH 1001
Class Name How Fish do Computer Science
Professor Dr. Shark

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Textbook Title * Examining Probability and Statistics

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Textbook Info

Textbook Author * Oliver Twist
Textbook ISBN * 978-3-16-148410-0
Textbook Quality * Select the most accurate quality
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Class Info

Subject Area * Select the most appropriate subject
Class Code STAT 1101
Class Name Intro to Probability and Statistics
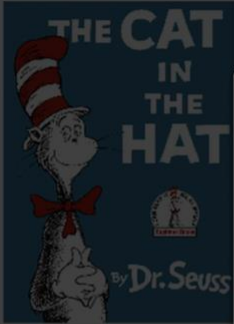Professor Dr. Gerwin

Ready to Sell!

RSVP/Inquire about textbook

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The Cat in the Hat

$40

Send a message to the textbook owner:

Hello, I would like to buy this book. Can you meet me at the union on Thursday?

Send

978-2-0067-0702-2
Dr. Seuss
Good

Architecture
CATS 4444
Architecture in Children's Literature
Dr. Seuss

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Successfully inquired about the textbook!

This is an inquiry for **The Cat in the Hat**

Confirm Sale   Delete Inquiry

Piggy   Hello, I would like to buy this book. Can you meet me at the union on Thursday?   5/7/2021, 4:00:24 PM

Reply:

Send a reply message...

Reply

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Confirmation from both parties

This is an inquiry for The Cat in the Hat

Pending Confirmation   Delete Inquiry

Piggy   Hello, I would like to buy this book. Can you meet me at the union on Thursday?   5/7/2021, 4:00:24 PM

Fishy   We have a deal!   5/7/2021, 4:01:25 PM

Reply:

Send a reply message...

Reply

This is an inquiry for The Cat in the Hat

Pending Your Confirmation   Delete Inquiry

Piggy   Hello, I would like to buy this book. Can you meet me at the union on Thursday?   5/7/2021, 4:00:24 PM

Fishy   We have a deal!   5/7/2021, 4:01:25 PM

Reply:

Send a reply message...

Reply

booksmart   View All Textbooks   Sell Your textbook   Welcome, Piggy!   Logout

You have confirmed the sale

Welcome, Piggy

Here are your active listings:

If You Gave a Mouse a Cookie   Edit   Delete
A Fish Out of Water   Edit   Delete
The Tale of Desperaux   Edit   Delete

You have not sold any textbooks.

You have not inquired about any textbooks.

You have not received any inquiries.

You have previously bought these textbooks:

The Cat in the Hat

Profile displays textbooks, inquiries, and sales

Welcome, Fishy

Here are your active listings:

All About Fish   Edit   Delete
Brown Bear Brown Bear   Edit   Delete
The Cat in the Hat   Edit   Delete

You have not sold any textbooks.

You have not inquired about any textbooks.

You have received inquiries for these textbooks:

The Cat in the Hat   Pending Confirmation   Reject Inquiry

You have not bought any textbooks.

Explanation of additional features

Instead of RSVP system, I implemented a messaging system that allows members to inquire about a textbook that was listed on the site. This process involves creating an inquiry object for the textbook (which is basically equivalent to RSVP) and message objects for the inquiry. A user cannot create an inquiry for their own textbook. Users can only create one inquiry for each textbook listing, but multiple users can create one inquiry (each) for a single textbook. Once both the inquirer and the owner of the textbook have confirmed the sale/exchange, then the textbook is listed as "sold" on their profiles and it is no longer displayed on the /textbooks page. When a textbook is sold all of the inquiries for that textbook are deleted. When an inquiry is deleted (including when it is rejected by the owner), all messages are also deleted. When a

user is viewing a textbook that isn't theirs, they can see how many successful exchanges (buy or sell) the owner of the textbook has completed. Owners with more exchanges are more reliable because they have a confirmed history of successful exchanges.

Explanation of status
All of the required components are present and working. Uploading a photo, or even assigning two images currently does not work.

Discuss challenges
The most difficult part of this project was deleting objects that are associated with other objects. For example, it was difficult to delete all of the message objects when a textbook was sold or deleted. This was difficult because I had to think critically about how to avoid race conditions or for loops to delete all of the objects. More specifically, I couldn't use "post" middleware to detect when an inquiry was deleted because the "deleteMany" middleware doesn't return the ids of the deleted objects. I had to use multiple ".then()" clauses to delete all of the messages and all of the inquiries when a textbook was sold or deleted.