CCPS530 6J0
Web Systems Development
W2025
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# Lab 8 (MongoDB version)

For this course, I am taking a unique approach by developing duelling sister sites—two interconnected web pages that evolve with each lab while adhering to the assignment requirements.

### Concept Overview:

- "Found: Places I've Been" A personal reflection site documenting past travels, experiences, and memorable locations.
- "Lost: Places I Want to Go" A future-focused site showcasing bucket list destinations, aspirations, and anticipated adventures..

Rather than treating each lab as a separate assignment, I am ensuring continuity and consistency across submissions, allowing the project to grow organically. This portfolio-driven approach mirrors real-world web development, where sites evolve over time.

These sister sites follow distinct themes:

- \* "Found" evokes warm nostalgia with earthy tones and reminiscence-based storytelling.
- "Lost" embraces cool, futuristic aesthetics that represent aspirations and uncharted adventures.

### Lab 7: Why a Book Inventory Works for the Lost Site

For Lab 7, I chose to focus exclusively on the Lost site, as the objective was to create a book inventory system. I felt that books aligned more naturally with the sentiment of preparing for travel and what you might plan to do while traveling.

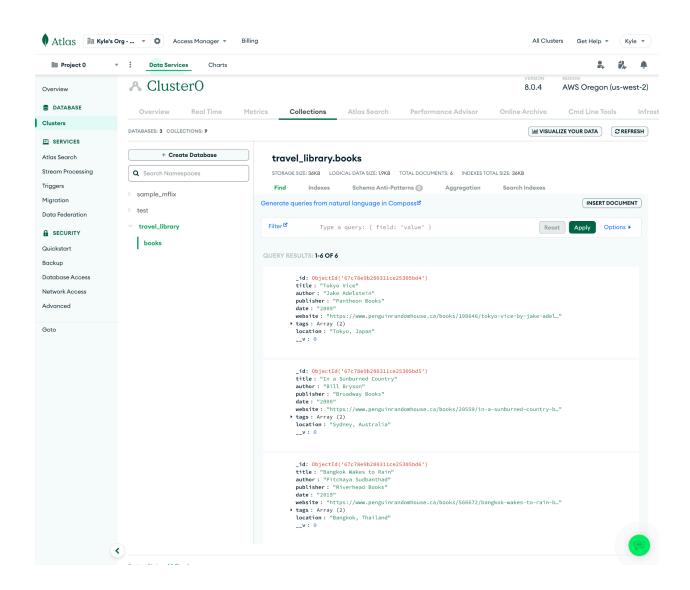
- Books are a traveler's companion, making them a perfect fit for the Lost site's aspirational theme.
- I expanded on the base requirements by creating a form that allows users to add books dynamically, enriching their personal travel research library.
- The book inventory system is structured to allow users to categorize books based on pre-trip inspiration, travel memoirs, and cultural deep dives.

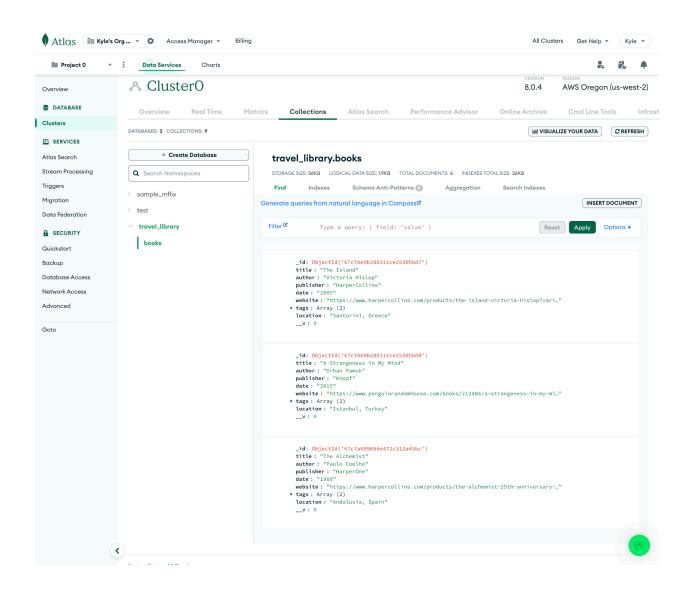
### **Future Enhancements**

- In future iterations, I may apply similar techniques to the Found site but instead of books, I would create a media library focused on films, TV shows, and music that remind users of places they've already traveled.
- As this project evolves, I see it becoming more like Letterboxd for travel, a social platform for documenting
  and sharing travel experiences, allowing users to curate books, films, and memories tied to specific
  locations.

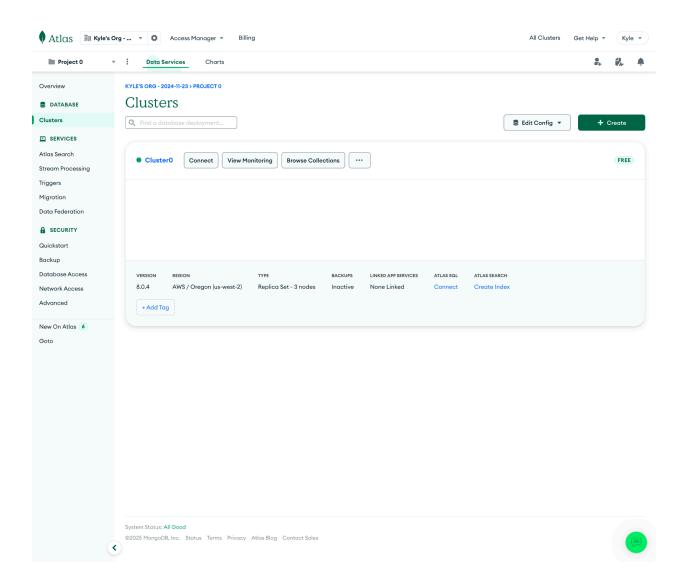
For this lab, I implemented a book inventory system using MongoDB as the database and Node.js to handle server-side operations. The inventory allows users to add, view, and delete books, with data being stored in a MongoDB collection. The backend was developed using Express.js, and books were inserted into the database using Mongoose.

# MongoDB Atlas - "books" Collection





# MongoDB Atlas - Database Cluster



### Node.js Code - Inserting Books into MongoDB

```
EXPLORER
                                                                                                                     JS lost_server.js
                                                                                                                                                                      JS insert_books.js ×
       ∨ LAB8
                                         Js insert_books.js > [@] bookInventory > \beta location
                                                 require('dotenv').config();

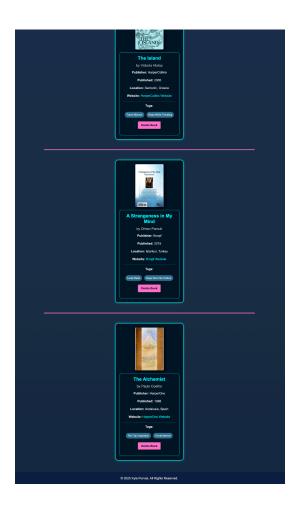
∨ public

          > descriptions
                                               // Connect to MongoDB Atlas
const mongoURI = process.env.MONGODB_URI;
mongoose.connect(mongoURI)
          > images
          {} desired_destinatio...
          JS lost script.is
                                                     .then(() => console.log("Connected to MongoDB Atlas"))
.catch(err => console.accomp("W")
          # lost_style.css
         .env
Js insert_books.js
                                                // Define Book Schema
         JS lost server.is
                                                       website: String,
                                                       tags: [String],
                                                       location: String
                                                 const Book = mongoose.model('Book', bookSchema);
                                                  const bookInventory = [
                                                             author: "Jake Adelstein",
                                                             publisher: "Pantheon Books".
                                                            website: "https://www.penguinrandomhouse.ca/books/198646/tokyo-vice-by-jake-adelstein/9780307475299",
tags: ["Deep Dive Into Culture", "Local Read"],
                                                            author: "Bill Bryson",
publisher: "Broadway Books",
                                                            date: "2000",
website: "https://www.penguinrandomhouse.ca/books/20559/in-a-sunburned-country-by-bill-bryson/9780385259415",
                                                             tags: ["Travel Memoir", "Pre-Trip Inspiration"],
location: "Sydney, Australia"
                                                             publisher: "Riverhead Books".
                                                            publisher. Revertises beam, date: "2019", website: "https://www.penguinrandomhouse.ca/books/566672/bangkok-wakes-to-rain-by-pitchaya-sudbanthad/9780525534778", website: "https://www.penguinrandomhouse.ca/books/566672/bangkok-wakes-to-rain-by-pitchaya-sudbanthad/9780525534778",
                                                             tags: ["Local Read", "Deep Dive Into Culture"], location: "Bangkok, Thailand"
                                                             author: "Victoria Hislop",
                                                             publisher: "HarperCollins",
                                                             tags: ["Travel Memoir", "Read While Traveling"],
location: "Santorini, Greece"
                                                            publisher: "Knopf",
date: "2015",
website: "https://www.penguinrandomhouse.com/books/212404/a-strangeness-in-my-mind-by-orhan-pamuk/",
                                                             tags: ["Local Read", "Deep Dive Into Culture"], location: "Istanbul, Turkey"
                                                  Book.insertMany(bookInventory)
                                                       .then(() =>
                                                            console.log("Books inserted successfully!");
```

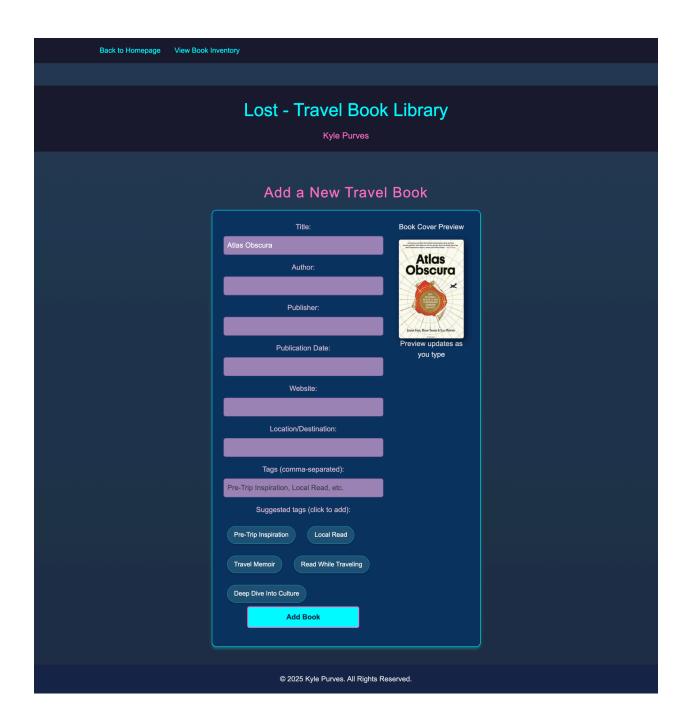
# Lost - Travel Book Library Kyle Phone Travel Book Inventory Trave



# **Travel Book Inventory page**



## Add Book to Library page



### Successful Book Add page

