

Name: Andrew Parsons

TMU ID: 500992021

Due Date: Apr 1, 2023

Github Repo Link: https://github.com/Parsonswlu/parsonswlu.github.io/tree/main/CCPS530_Lab7

CCPS 530 - Web Systems Development - Lab 7

Screenshot of NodeJS code

```
CCPS530_Lab7 > JS lab7.js > run > docs
1  const { MongoClient } = require("mongodb");
2  // Replace the uri string with your connection string.
3  const uri = "mongodb+srv://andrewparsons_tmucgVyto6BvhpNmJQn@tmucluster2.ipti0ek.mongodb.net/?retryWrites=true&w=majority";
4
5  const client = new MongoClient(uri);
6  async function run() {
7    try {
8      const db = client.db('ccps530_lab7');
9      const coll = db.collection('books');
10     // Query
11     const docs = [{
12       title: "Deep Learning for Coders with fastai & PyTorch: AI Applications Without a PhD",
13       author: "Jeremy Howard & Sylvain Gugger",
14       publisher: "O'Reilly Media, Inc.",
15       date: "2021-11-05",
16       website: "https://course.fast.ai/Resources/book.html",
17       { title: "Quantum Computation and Quantum Information: 10th Anniversary Edition",
18         author: "Michael A. Nielsen and Isaac L. Chuang",
19         publisher: "Cambridge University Press",
20         date: "2011-01-30",
21         website: "https://www.cambridge.org/highereducation/books/quantum-computation-and-quantum-information/01E10196D0A682A6AEFFEA52D",
22         { title: "Spatial Computing",
23           author: "Shashi Shekhar and Pamela Vold",
24           publisher: "The MIT Press",
25           date: "2020-02-18",
26           website: "https://mitpress.mit.edu/9780262538046/spatial-computing/" },
27         { title: "Machine Learning Engineering",
28           author: "Andriy Burkov",
29           publisher: "True Positive Inc.",
30           date: "2020-09-08",
31           website: "http://www.mlebook.com/wiki/doku.php" },
32         { title: "Principles of Computer Architecture",
33           author: "Miles J. Murdocca, Vincent P. Heuring",
34           publisher: "Prentice-Hall",
35           date: "1999-11-29",
36           website: "https://academicos.azc.uam.mx/oan/lac/Murdocca_en.pdf" }
37     }];
38
39     const query = await coll.insertMany(docs);
40     console.log('Multiple document inserted');
41   } finally {
42     // Ensures that the client will close when you finish/error
43     await client.close();
44   }
45 }
46 run().catch(console.dir);
```

Screenshot of Terminal Commands

```
→ ccps530_lab7 git:(main) ✕ ls
lab7.js
→ ccps530_lab7 git:(main) ✕ nodemon lab7.js
[nodemon] 2.0.20
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node lab7.js`
Multiple document inserted
[nodemon] clean exit - waiting for changes before restart
^C
→ ccps530_lab7 git:(main) ✕
```

Screenshot of MongoDB UI

The screenshot displays the MongoDB Atlas web interface. The top navigation bar includes the Atlas logo, a user profile dropdown for 'Andrew', and links for 'Access Manager' and 'Billing'. The main header shows 'Project 0' and 'Data Services' as the active tab. On the left sidebar, the 'Database' section is expanded, showing a tree view of namespaces under 'ccps530_lab7', with 'books' selected. The main content area displays the 'ccps530_lab7.books' collection details, including storage and index sizes. A query filter bar is present with a placeholder query. Below, the 'QUERY RESULTS' section shows 5 documents, with the first two fully visible. Each document contains fields for _id, title, author, publisher, date, and website.

ccps530_lab7.books

STORAGE SIZE: 4KB LOGICAL DATA SIZE: 1.25KB TOTAL DOCUMENTS: 5 INDEXES TOTAL SIZE: 4KB

[Find](#) [Indexes](#) [Schema Anti-Patterns](#) [Aggregation](#) [Search Indexes](#)

[INSERT DOCUMENT](#)

[Filter](#) Type a query: { field: 'value' } [Reset](#) [Apply](#) [More Options](#)

QUERY RESULTS: 1-5 OF 5

```
{
  "_id": ObjectId('641f25cd81d7a31297b6e09c'),
  "title": "Deep Learning for Coders with fastai & PyTorch: AI Applications Withou...",
  "author": "Jeremy Howard & Sylvain Gugger",
  "publisher": "O'Reilly Media, Inc.",
  "date": "2021-11-05",
  "website": "https://course.fast.ai/Resources/book.html"
}
```

```
{
  "_id": ObjectId('641f25cd81d7a31297b6e09d'),
  "title": "Quantum Computation and Quantum Information: 10th Anniversary Edition",
  "author": "Michael A. Nielsen and Isaac L. Chuang",
  "publisher": "Cambridge University Press",
  "date": "2011-01-30",
  "website": "https://www.cambridge.org/highereducation/books/quantum-computation-an..."
}
```

```
{
  "_id": ObjectId('641f25cd81d7a31297b6e09e'),
  "title": "Spatial Computing"
}
```