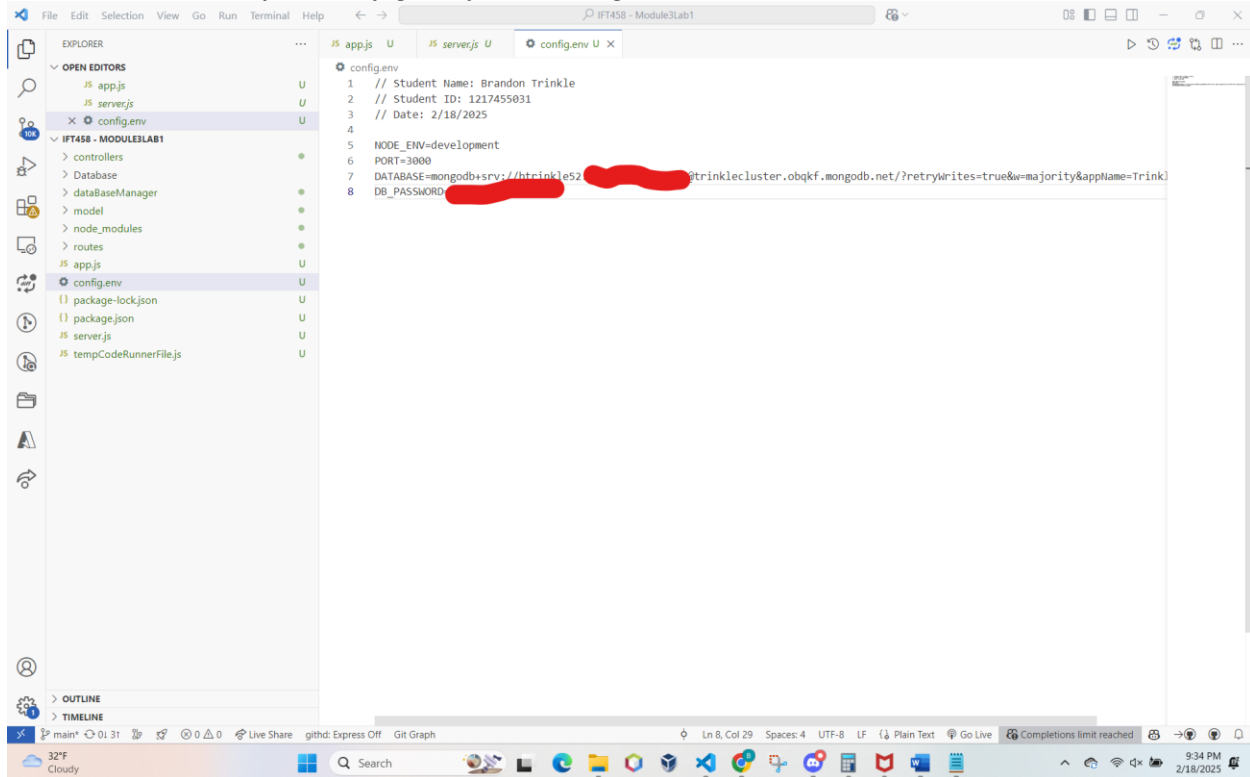


**Module 3 Lab 1****Brandon Trinkle****IFT 458: Middleware Prog & Database Sec****Professor: Dinesh Sthapit****Feb 18, 2025**

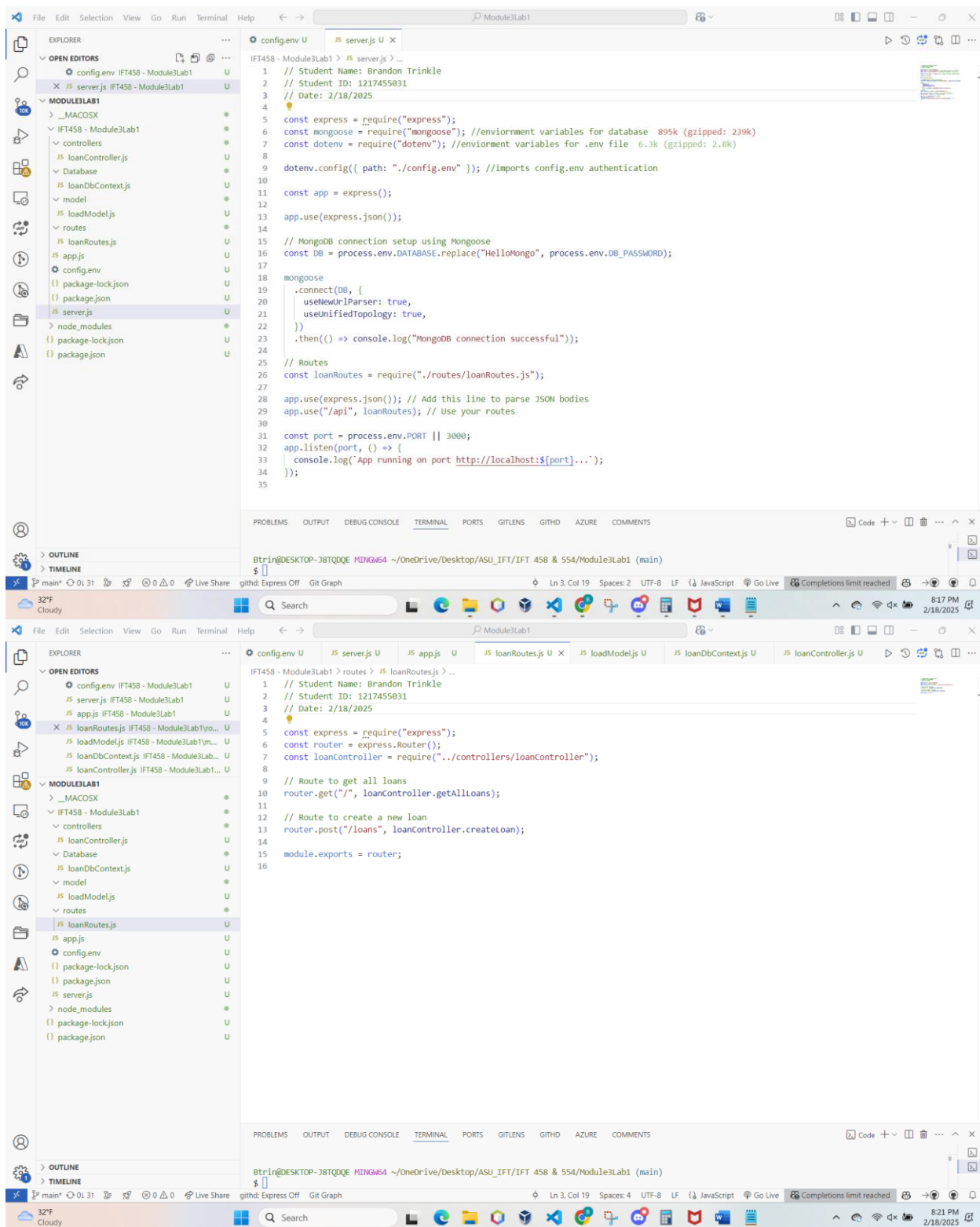
## Module 3 Lab 1

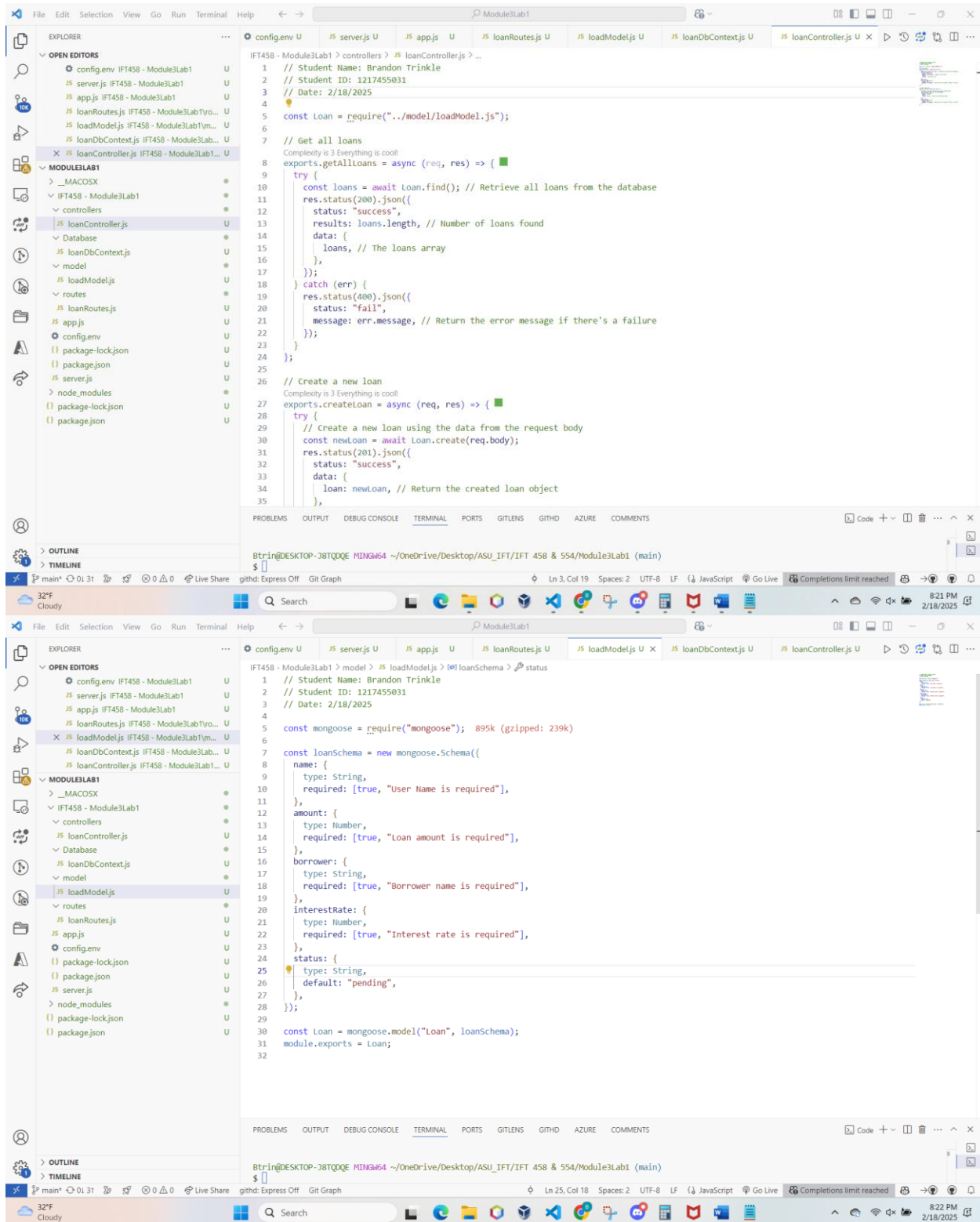
### 1. Screenshot of the config.env file showing the added environment variables.



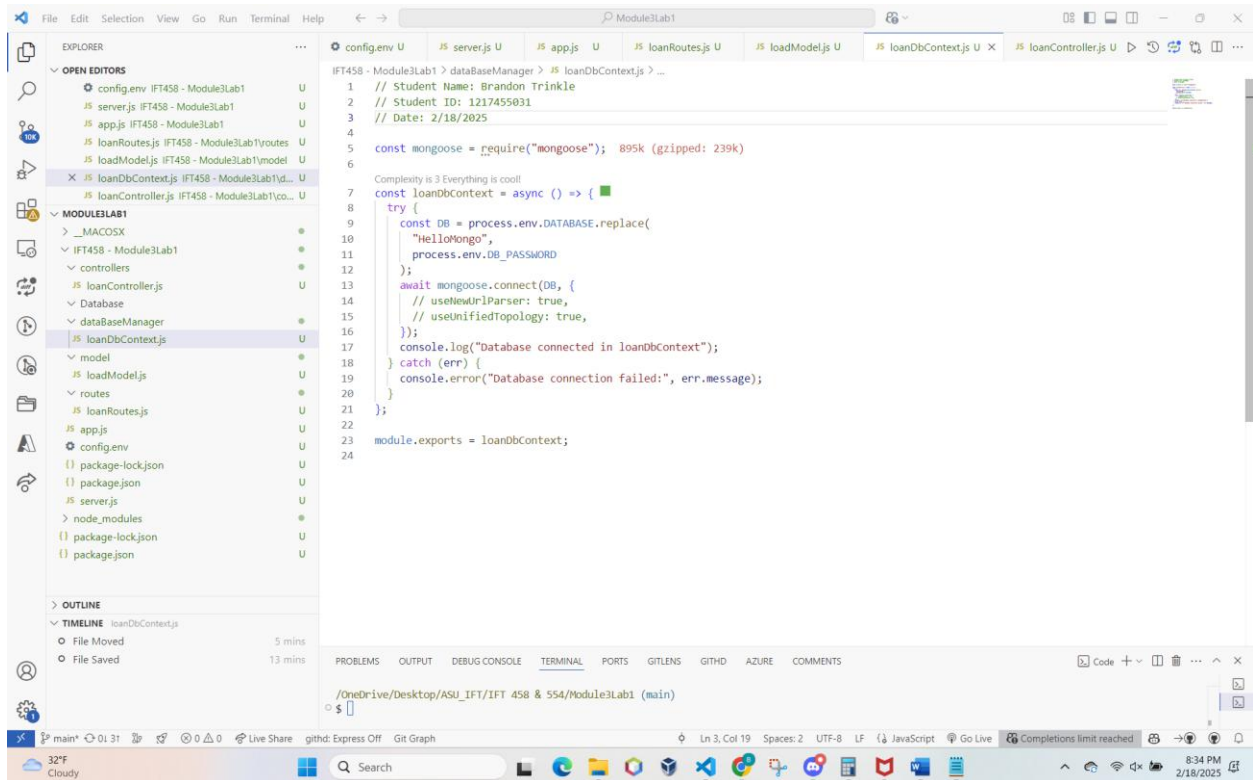
```
1 // Student Name: Brandon Trinkle
2 // Student ID: 1217455031
3 // Date: 2/18/2025
4
5 NODE_ENV=development
6 PORT=3000
7 DATABASE=mongodb+srv://htcrinkle52[REDACTED]@trinklecluster.obqkf.mongodb.net/?retryWrites=true&w=majority&appName=Trinkle
8 DB_PASSWORD=[REDACTED]
```

### 2. Screenshots of the loanModel.js, loanController.js, loanRoutes.js, and server.js files showing the code and file structure. **\*\*Multiple screenshots, see deliverables.\*\***

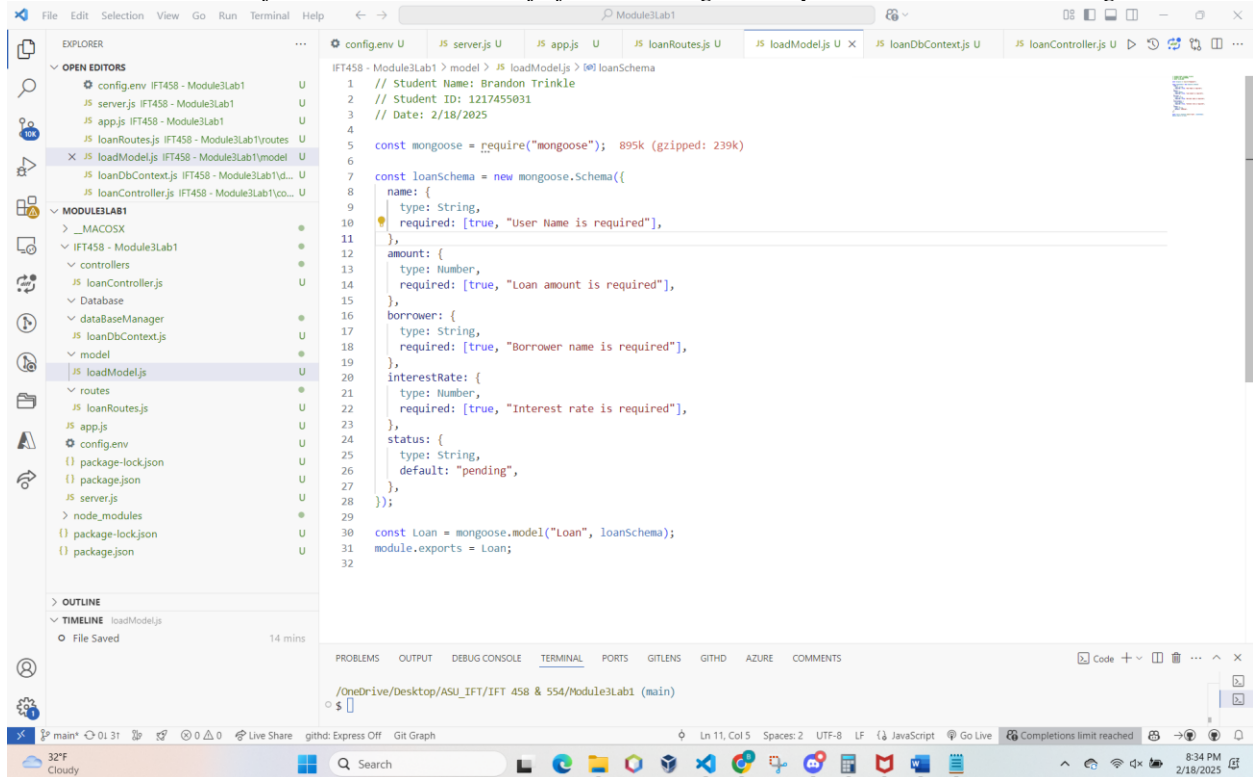




3. *Deliverable: Screenshot of the `loanDbContext.js` file within the `dataBaseManager` folder showing the modified code.*



#### 4. Screenshot of the loanController.js file showing the implemented controller logic.



#### 5. Screenshot of the app.js file showing the added routes and their configuration.

```

1 // Student Name: Brandon Trinkle
2 // Student ID: 1217455031
3 // Date: 2/18/2025
4
5 const express = require("express");
6 const dotenv = require("dotenv"); // 6.4k (gzipped: 2.6k)
7 const mongoose = require("mongoose"); // 869.5k (gzipped: 232.6k)
8 const loanRoutes = require("../routes/loanRoutes.js");
9
10 dotenv.config({ path: "./config.env" });
11
12 const DB = process.env.DATABASE.replace(
13   "<DB_PASSWORD>",
14   process.env.DB_PASSWORD
15 );
16
17 const app = express();
18 app.use(express.json());
19 app.use("/api", loanRoutes);
20
21 mongoose
22   .connect(DB, {
23     useNewUrlParser: true,
24     useUnifiedTopology: true,
25   })
26   .then(() => console.log("MongoDB connection successful"));
27
28 const port = process.env.PORT || 3000;
29 app.listen(port, () => {
30   console.log(`App running on port http://localhost:${port}...`);
31 });

```

- 6
  - A. Take a screenshot of the Postman request showing the successful addition of data.
  - Open MongoDB terminal and verify that the data has been successfully inserted.
  - Take a screenshot of the MongoDB terminal showing the added data.

```

1 // Student Name: Brandon Trinkle
2 // Student ID: 1217455031
3 // Date: 2/18/2025
4
5 const express = require("express");
6 const dotenv = require("dotenv"); 6.4k (gzipped: 2.8k)
7 const mongoose = require("mongoose"); 869.5k (gzipped: 232.6k)
8 const loanRoutes = require("./routes/loanRoutes.js");
9
10 dotenv.config({ path: "./config.env" }); // Ensure dotenv loads
11
12 const DB = process.env.DATABASE.replace(
13   "<DB_PASSWORD>",
14   process.env.DB_PASSWORD
15 );
16
17 const app = express();
18 app.use(express.json());

```

```

Btr@DESKTOP-J8TQQE MINGW64 ~/OneDrive/Desktop/ASU_IFT/IFT 458 & 554/Module3Lab1/IFT458 - Module3Lab1 (main)
$ node "c:\Users\btr\OneDrive\Desktop\ASU_IFT\IFT 458 & 554\Module3Lab1\IFT458 - Module3Lab1\app.js"
(node:25880) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useUrlParser has no effect since Node.js Driver version 4.0.0 and
will be
(node:25880) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useUrlParser has no effect since Node.js Driver version 4.0.0 and
will be removed in the next major version
(Use "node --trace-warnings ..." to show where the warning was created)
(node:25880) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopology has no effect since Node.js Driver version 4.0.
0 and will be removed in the next major version
App running on port http://localhost:3000...
MongoDB connection successful

```

*Note: connected to MongoDB*

```

1 // Student Name: Brandon Trinkle
2 // Student ID: 1217455031
3 // Date: 2/18/2025
4
5 const express = require("express");
6 const dotenv = require("dotenv"); 6.4k (gzipped: 2.8k)
7 const mongoose = require("mongoose"); 869.5k (gzipped: 232.6k)
8 const loanRoutes = require("./routes/loanRoutes.js");
9
10 dotenv.config({ path: "./config.env" });
11
12 const DB = process.env.DATABASE.replace(
13   "<DB_PASSWORD>",
14   process.env.DB_PASSWORD
15 );
16
17 const app = express();
18 app.use(express.json());
19 app.use("/api", loanRoutes);

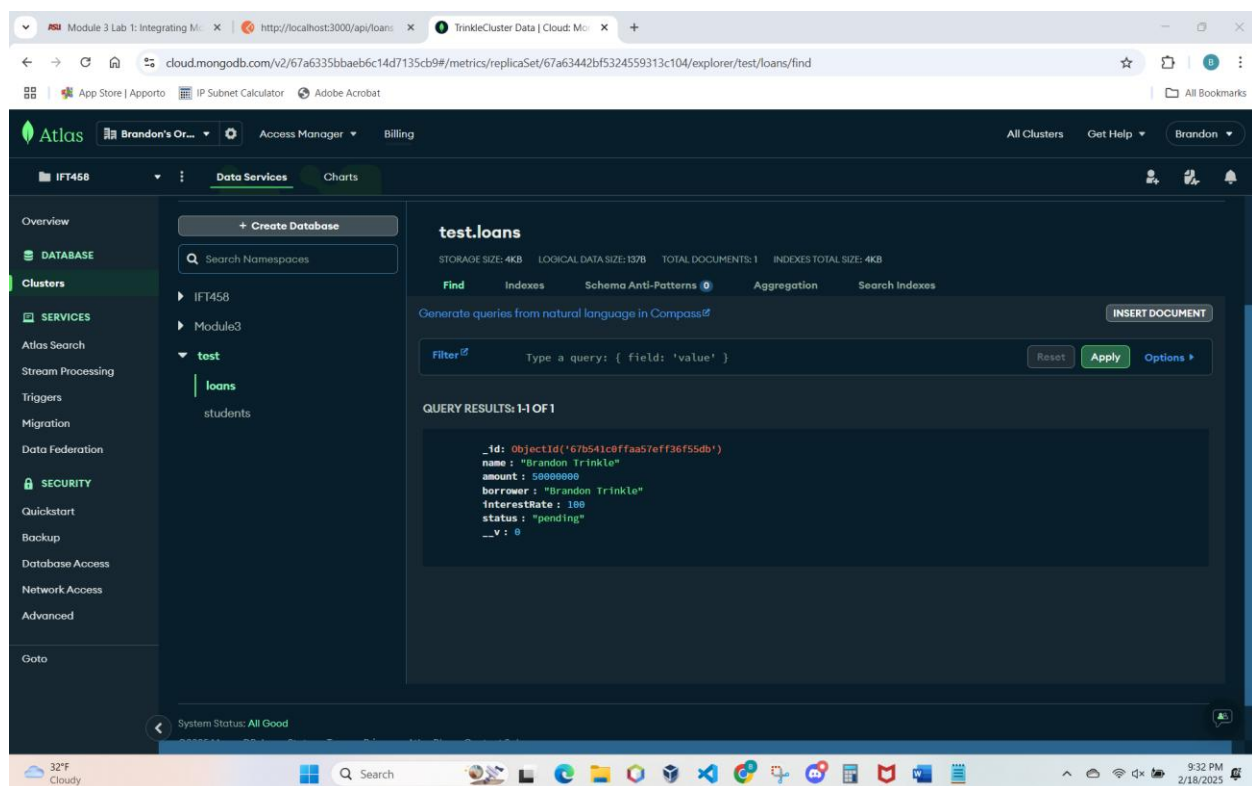
```

```

Btr@DESKTOP-J8TQQE MINGW64 ~/OneDrive/Desktop/ASU_IFT/IFT 458 & 554/Module3Lab1/IFT458 - Module3Lab1 (main)
$ curl -X POST "http://localhost:3000/api/loans" -H "Content-Type: application/json" -d '{"name": "Brandon Trinkle", "amount": 50000000, "borrower":
"Brandon Trinkle", "interestRate": 1000 }'
{"status":"success","data":{"loan":{"name":"Brandon Trinkle","amount":50000000,"borrower":"Brandon Trinkle","interestRate":1000,"status":"pending",
"Id":"67b543d7f4a57eff36f55df1","v":0}}}
Btr@DESKTOP-J8TQQE MINGW64 ~/OneDrive/Desktop/ASU_IFT/IFT 458 & 554/Module3Lab1/IFT458 - Module3Lab1 (main)
$

```

*Note: I had issues with postman, so I used curl to send a post request to the server. I gave myself an absurd interest rate as a result!*



*Note: MongoDB was updated.*