Module 3 Lab 1: Implementing MongoDB Operations in Node.js

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IFT 554: Middleware Programming & Database Security

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February 18, 2024

Figure 1:

Manually adding config.env file

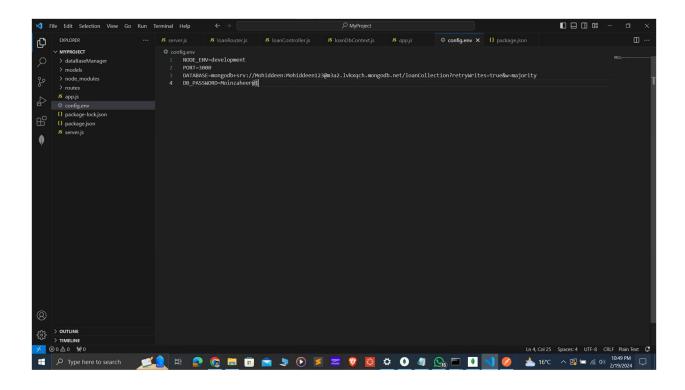


Figure 2:

Creating a folder with all the three files

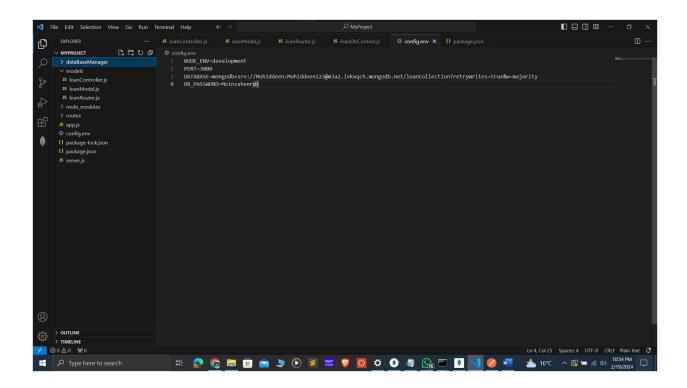


Figure 3:

loanModel.js file

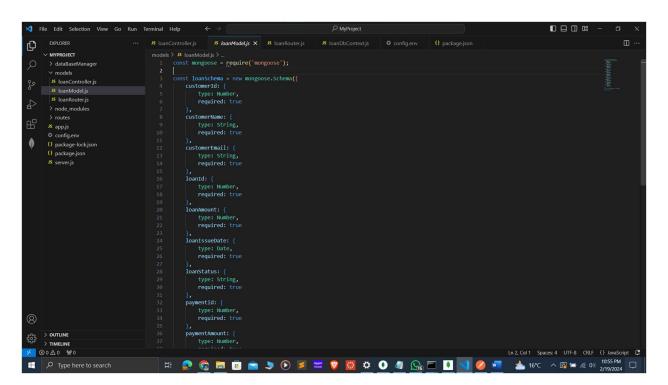


Figure 4:

loanRoutes.js

```
| Secretary | Secr
```

Figure 5:

loanController.js

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| Martin | M
```

Figure 6:

Server.js

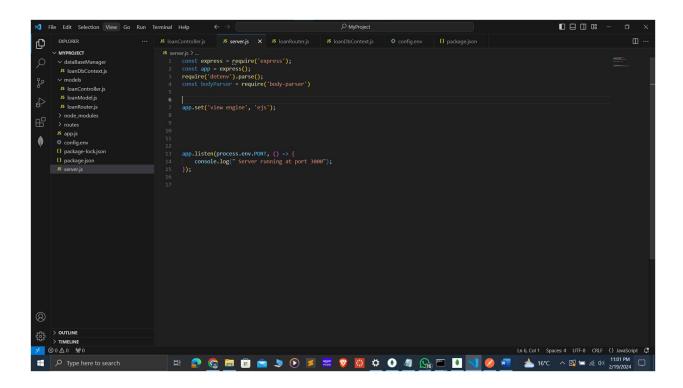


Figure 7:

loanDBcontext.js

```
★ File Edit Selection View Go Run Terminal Help
                                                                                                                                                                                                                                                                        JS loanRouter.js JS loanDbContext.js X 🌣 config.env {} package.json
EXPLORER
      3
4    class LoanDbContext {
5         constructor(url, dbName) {
6          this.url = url;
7          this.dbName = dbName;
8          this.client = new Mongoclient(this.url);
            > models
        > routes
JS app.js
       config.env
package-lock.json
package.json
                                                                             async connect() {
   if (lthis.db) {
      await this.client.connect();
      this.db = this.client.db(this.dbName);
      console.log('Connected to MongoD8:', this.dbName);
}
 0
                                                                                    nc insertSampleDates;
try {
    await this.connect();
    const collecton = this.db.collection(collecconName);
    const result = await collecton.insertMany(data);
    console.log('${result.insertedCount}) items inserted.');
    return result;
} catch (error) {
    console.error('Error inserCng data:', error);
}
                                                                                 async getLoans(collecConName){
                                                                                     ic getcomn;
try {
    await this.connect();
    const col = this.db.collection(collecConName);
    const docs = col.find().toArray();
    console.log(" Retrieved all documents ");
    return docs;
                                                                                     } catch (error) {
   console.log("Error: ",error);
> OUTLINE
> TIMELINE
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Figure 8:

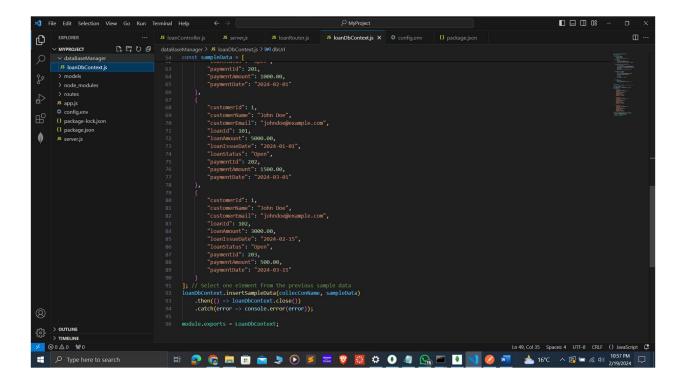


Figure 9:

Updated controller.js

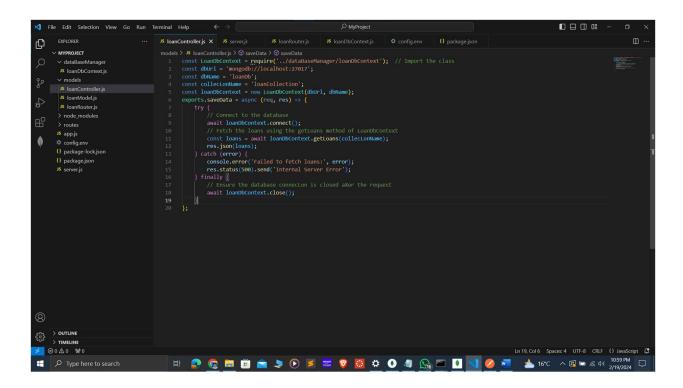


Figure 10:

Updated server.js with routes

```
★ File Edit Selection View Go Run Terminal Help
                                                                                                                                                                                                              D
                                               15 serverjs > ...
1    const express = require('express');
2    const app = express();
3    require('doten'),parse();
4    const bodyParser = require('body-parser')
       ∨ MYPROJECT
        ∨ dataBaseManager
     ∨ models
                                                  const bodyParser = require('body-parser')
const loanRouter = require('./models/loanRouter');
app.set('view engine', 'ejs');
app.use('/',loanRouter)

app.use('/',loanRouter)

app.use('/',loanRouter)
        JS loanModel.js
        > node_modules
      > routes
      Js app.js
config.env
 •
                                           13 app.listen(process.env.PORT, () => {
14 | console.log(" Server running at port 3000");
15 });
> OUTLINE
> TIMELINE
> 8 0 $\text{\Delta}$ 0 $\text{\Delta}$
                                                                                                                                                                                           Ln 17, Col 1 Spaces: 4 UTF-8 CRLF () JavaScript 🗘
                                      Type here to search
```

Figure 11:

Data is sent and retrieved.

