Group 7
- Akhtar Gadang Abimanyu
- Faiq Athaya Urumsah
- Farrel Tsaqif

BACKEND

```
v week3_CRUD_demo(...
  > node_modules
  .env
  .gitignore
  JS db.js
  library_db.sql
  {} package-lock.json
  {} package.json
  JS server.js
```

```
v week4_integration
  > node_modules
  > public
  > src
  .gitignore
  {} package-lock.json
  {} package.json
  README.md
```
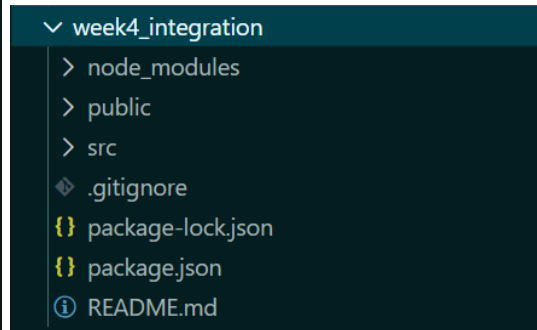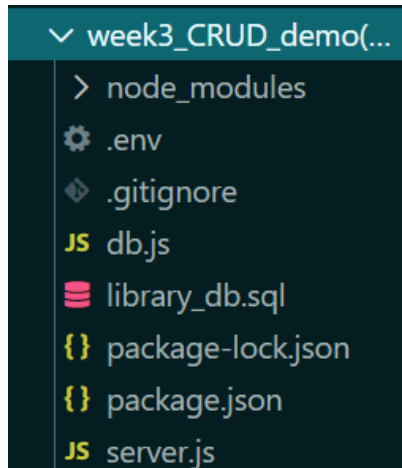
- It is successfully connected and ready to set up the frontend

```
PS C:\Project\Database\DBProject_Group7_Library-Borrowing-Tracker-main> cd "week3_CRUD_demo(backend)"
PS C:\Project\Database\DBProject_Group7_Library-Borrowing-Tracker-main\week3_CRUD_demo(backend)> node server.js
[dotenv@17.2.3] injecting env (6) from .env -- tip: 👥 sync secrets across teammates & machines: https://dotenvx.com/ops
[dotenv@17.2.3] injecting env (0) from .env -- tip: 📙backup and recover secrets: https://dotenvx.com/ops
🚀 Server running on port 5000
📌 MySQL Connected
```

FRONTEND

```
PS C:\Project\Database\DBProject_Group7_Library-Borrowing-Tracker-main> cd week4_integration
PS C:\Project\Database\DBProject_Group7_Library-Borrowing-Tracker-main\week4_integration> npm install

up to date, audited 1328 packages in 20s

Compiled successfully!

You can now view week4_integration in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.56.1:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```
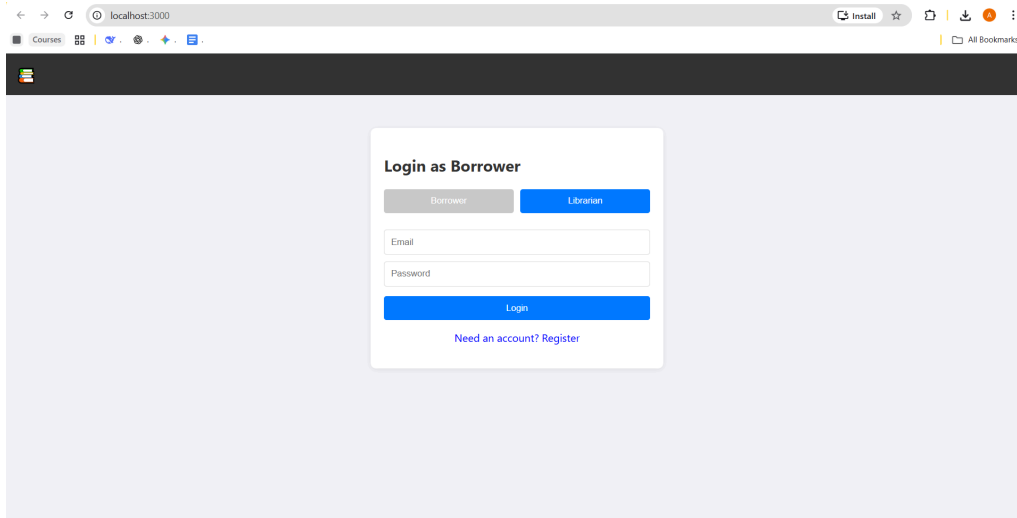
I also wrote npm start

- Librarian POV

Login as Librarian

Borrower | Librarian

boss@lib.com

•••

Login

Need an account? Register

Librarian Dashboard

🔔 **Pending Approvals**

No pending requests.

📄 **Process Return**

Enter Borrow ID (from user)   Return Book

📚 **Add New Book**

ISBN   Title   Genre   Add

All Books

- **ADD BOOK**

📚 **Add New Book**

| 000-001 | Database Introduction | Education | Add |

localhost:3000 says

Book added

OK

All Books

Database Introduction (available)　　　　　　　　　　　　　　　　Delete

- **Borrower POV**

Login as Borrower

| Borrower | Librarian |

test@example.com

••••••••••

Login

Need an account? Register

Borrower Dashboard

📖 **My Active Books**

You have no borrowed books.

Library Catalog

Database Introduction

Status: **AVAILABLE**

Request Approval

- **BORROW Process**

1. Borrower requests approval

localhost:3000 says

Request sent!

OK

2. Borrow status is pending

Borrower Dashboard

📖 **My Active Books**

Database Introduction
Status: pending

Library Catalog

Database Introduction

Status: **PENDING**

Unavailable

3. **Librarian can approve the book**

Librarian Dashboard

🔔 **Pending Approvals**

ID	Borrower	Book	Action
2	Test User	Database Introduction	Approve

The librarian will also enter the number of days for borrowing

localhost:3000 says

Enter number of days for borrowing:

7

OK   Cancel

localhost:3000 says

Request Approved!

OK

Borrower Dashboard

📖 **My Active Books**

Database Introduction
Status: approved   (Due: 2025-12-03)

Library Catalog

Database Introduction

Status: **BORROWED**

Unavailable

Librarian Dashboard

🔔 **Pending Approvals**

No pending requests.

🔄 **Process Return**

| 2 | Return Book |

📚 **Add New Book**

| ISBN | Title | Genre | Add |

All Books

Database Introduction (borrowed)   🆔 Borrow ID: **2**   Delete

Process return by entering the borrowID

🔄 **Process Return**

| 2 | Return Book |

Then after the book is returned it will be available for borrowing

All Books

Database Introduction (available)   Delete

Appendix: Source Code

In our github