

REACT FULL STACK

FULL STACK SKILLS BOOTCAMP

ONLINE KNOWLEDGE BASE PLATFORM

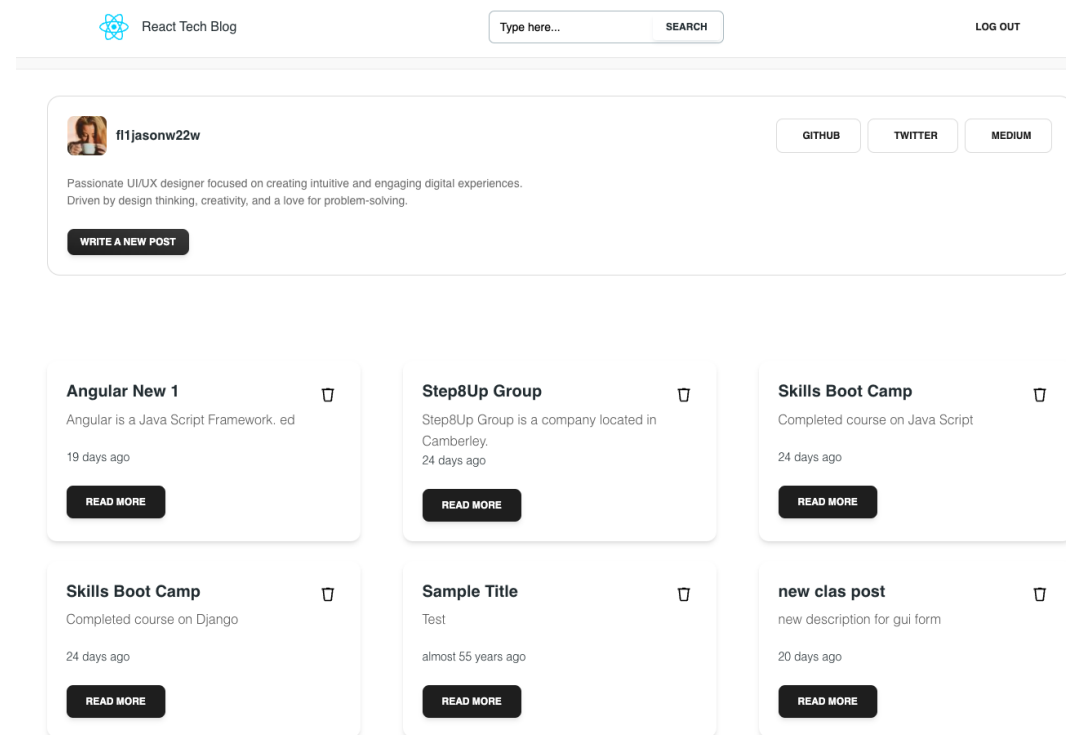
- **Lesson Overview:**

- In this lesson, we will be introduced to:

1. Introduction to the Challenge
2. Key Learnings
3. Project Requirements
4. Team Structure
5. Acceptance Criteria

INTRODUCTION TO THE CHALLENGE

- **Purpose:**
A platform for managing and sharing technical articles securely.
- **Frontend:** Built using **React** (Vite framework) for a dynamic user experience.
- **Backend:** Powered by **NodeJS/Sequelize ORM**, offering a secure and scalable API for data handling.
- **Goal:** Enhance functionality and fix issues to create a robust knowledge-sharing tool.



INSTALLATION

- Clone the Repository

```
git clone https://github.com/Step8Up-SBC/lms-3000.git  
cd LMS3000
```

SETTING UP: CREATE THE DATABASE

- Navigate to root folder.

Login to MySQL to create the database

```
mysql -u root -p
```

```
source db/schema.sql;  
quit;
```

SETTING UP: INSTALL DEPENDENCIES

- Run the following command in the root directory to install dependencies for both server and client:

```
npm install
```

SETTING UP: SET UP ENVIRONMENT VARIABLES

- copy .env.example files in the client and server folders, to create .env files. In the server folder, change your MySQL password
- Seed the Database (Optional)

If you want to populate the database with sample data, run:

```
npm run seed
```

SETTING UP: START THE APPLICATION

- Run the following command to start the development server:

```
npm run dev
```


SETTING UP: USAGE

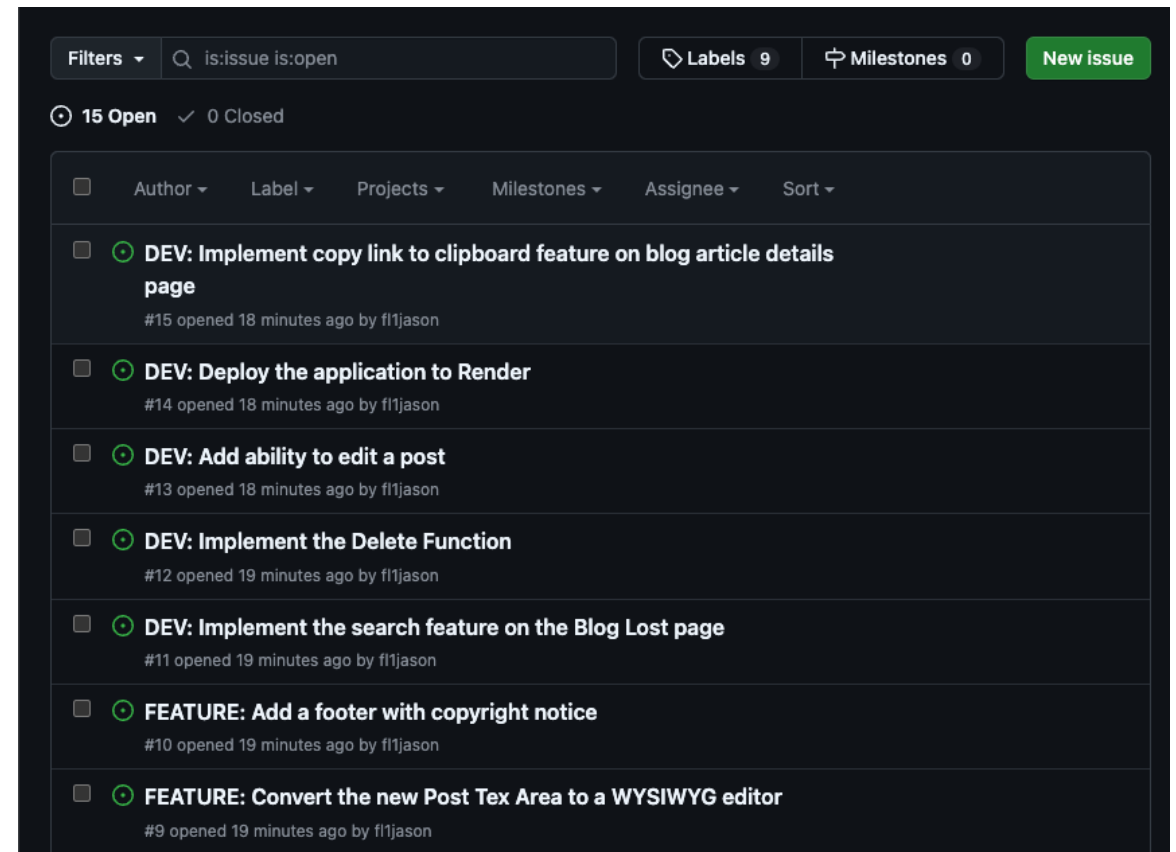
- Run the following command to start the development server:

```
npm run dev
```

- Open your browser and navigate to <http://localhost:5173> to access the LMS3000 application.
- Explore features such as course management, student enrolment, and instructor assignments.
- The Sequelize/NodeJS backend can be accessed via <http://localhost:3001>

WHAT ARE GITHUB ISSUES?

- **Definition:**
GitHub Issues are tools for tracking tasks, enhancements, and bugs in a project repository.
- **Features:**
 - Assign issues to team members.
 - Add labels for categorization (e.g., bug, feature request, enhancement).
 - Include detailed descriptions, screenshots, or steps to reproduce.
- **Use Case:** In Step8Up, GitHub Issues define tasks like fixing bugs, adding features, or improving the platform.



GITHUB PULL REQUESTS (PRS)

■ Definition:

Pull Requests are a way to propose changes to the main codebase.

■ Workflow:

1. Create a **branch** for your work.
2. Commit changes and push to your fork or branch.
3. Open a Pull Request to merge changes into the main branch.
4. Collaborators review, discuss, and approve your PR.

■ Benefits:

- Facilitates collaboration.
- Tracks changes with detailed commit history.
- Ensures code quality through reviews.

CURRENT DEVELOPMENTS VS. BUG FIXES AND FEATURE REQUESTS

- **Current Developments:**
Focus on enhancing the core functionality of the Step8Up Knowledge Base.
- **Bug Fixes:**
Resolve reported issues that hinder the application from functioning as expected.
- **Feature Requests:**
Add new capabilities to the platform, such as:
 - Improved user authentication.
 - Enhanced article tagging system.

UPDATING PROGRESS USING GITHUB ISSUES

■ Workflow:

1. Assign Yourself:

Select an open issue and assign it to yourself.

2. Communicate Progress:

Use comments to provide updates or ask for clarification.

3. Close the Issue:

After completing the task and merging the related Pull Request, mark the issue as resolved.

4. Keep the Team Updated:

Ensure transparency by tagging team members and summarizing changes in the issue thread.

TEAM STRUCTURE

- **Team Size:** 3 members
- **Time Limit:** 3 hours
- **Presentation:** Showcase your app to the group, explaining your process and contributions.

LET'S BUILD TOGETHER!

- **Collaborate:**
Work as a team to enhance and support the Step8Up Knowledge Base.
- **Communicate:**
Use GitHub Issues and Pull Requests to streamline the development process.
- **Contribute:**
Learn and grow as you tackle real-world project challenges.
- **Let's make Step8Up the go-to platform for technical knowledge sharing!** 🎉



QUESTIONS?