

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.

The screenshot shows a clean, modern website layout. At the top, there's a header with a logo (a blue atom icon), the text "React Tech Blog", a search bar ("Type here... SEARCH"), and a "LOG OUT" button. Below the header is a profile section for a user named "fl1jasonw22w", featuring a small profile picture, the name, and a bio: "Passionate UI/UX designer focused on creating intuitive and engaging digital experiences. Driven by design thinking, creativity, and a love for problem-solving." A "WRITE A NEW POST" button is also present. The main content area displays a grid of six blog post cards, each with a title, a brief description, a timestamp, and a "READ MORE" button. The posts include titles like "Angular New 1", "Step8Up Group", "Skills Boot Camp", "Sample Title", and "new clas post".

Title	Description	Timestamp	Action
Angular New 1	Angular is a Java Script Framework. ed	19 days ago	READ MORE
Step8Up Group	Step8Up Group is a company located in Camberley.	24 days ago	READ MORE
Skills Boot Camp	Completed course on Java Script	24 days ago	READ MORE
Sample Title	Test	almost 55 years ago	READ MORE
new clas post	new description for gui form	20 days ago	READ MORE

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 cerate .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.

The screenshot shows a GitHub Issues page with the following details:

- Filters:** is:issue is:open
- Count:** 15 Open, 0 Closed
- Actions:** Labels 9, Milestones 0, New issue
- Issues List:**
 - DEV: Implement copy link to clipboard feature on blog article details page (#15)
 - DEV: Deploy the application to Render (#14)
 - DEV: Add ability to edit a post (#13)
 - DEV: Implement the Delete Function (#12)
 - DEV: Implement the search feature on the Blog Lost page (#11)
 - FEATURE: Add a footer with copyright notice (#10)
 - FEATURE: Convert the new Post Tex Area to a WYSIWYG editor (#9)

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?