

## How to Run Page & How I Worked on the Assignment

### Requirements

- Node.js (v18 or newer)
- npm (v9 or newer)
- Backend: SQLite
- Git LFS (for images)

### Setup

1. Clone the repository:

```
git clone  
https://github.com/Seredoum04/washington_nats_web_development_programming_assignment.git  
  
cd washington_nats_web_development_programming_assignment
```

2. Install dependencies for frontend and backend:

```
cd frontend  
npm install  
  
cd ../backend  
npm install
```

3. Run the backend server:

```
cd backend  
node server.js
```

4. Run the frontend:

```
cd frontend  
npm start
```

5. Open your browser at: <http://localhost:3001>

## How I Worked on the Project

### Overall Development Process

For this project, I aimed to create a web application summarizing MLB 2025 pitching data by player. I followed an iterative development process, starting with planning the data model and API endpoints for the backend, then designing React components for the frontend.

I chose React for the frontend to quickly create reusable UI components, including the pitcher select dropdown and summary table. Node.js and Express were used for the backend because of familiarity and simplicity in serving API endpoints. SQLite was selected as the database for simplicity and portability.

The packages and technologies used were Axios for HTTP requests between frontend and backend. React Hooks (useState, useEffect) for state management. Git/GitHub for version control. Git LFS for storing large image assets. These choices were made based on familiarity, ease of integration, and project requirements.

Most technologies used were familiar, such as JavaScript, React, Node.js, and SQL. I have previously used React in academic projects, which made component-based development more efficient. I learned Git LFS specifically for this project to handle large media files like images.

Regarding AI use, I used Copilot to help write clean CSS/SCSS for page styling and debug git and Git LFS workflow issues. Some effective prompts were "Write SCSS for a page with a blue, red, and white theme with a logo in the corner." Some same Appendix were "Make the home page look nicer with red, white, and blue theme and include nats\_logo.png in the corner." And "Write step-by-step instructions for using Git LFS to handle images and push to GitHub."