

Toolbatcher

1. Abstract

Toolbatcher is a web application designed to streamline developers' workflows by allowing them to create, manage, and execute custom batches of command-line tools. It provides an intuitive interface for selecting tools, specifying versions, and generating scripts that can be easily run across different operating systems.

2. Modules

1. **Tool Selection:** Allows users to choose from a variety of command-line tools and specify their versions.
2. **OS Targeting:** Enables users to select the target operating system for their script generation.
3. **Script Generation:** Generates custom scripts based on the selected tools and target OS.
4. **Script Preview:** Provides users with a preview of the generated script before downloading.
5. **Script Download:** Allows users to download the generated script in the appropriate format for their target OS.
6. **Documentation:** Offers comprehensive documentation on how to use the Toolbatcher platform and individual tools.

3. Software Used

- **Frontend:** React.js
- **Backend:** Node.js with Express.js
- **Styling:** Tailwind CSS
- **State Management:** React Hooks
- **HTTP Client:** Axios
- **Version Control:** Git
- **Package Manager:** npm