Open-Source Technology Use Report

Proof of knowing your stuff in CSE312

# Guidelines

Provided below is a template you must use to write your report for each of the technologies you use in your project.

Here are some things to note when working on your report, specifically about the **General Information & Licensing** section for each technology.

* **Code Repository**: Please link the code and not the documentation. If you’d like to refer to the documentation in the **Magic** section, you’re more than welcome to, but we’d like to see the code you’re referring to as well.
* **License Type**: Three letter acronym is fine.
* **License Description**: No need for the entire license here, just what separates it from the rest.
* **License Restrictions**: What can you *not* do as a result of using this technology in your project? Some licenses prevent you from using the project for commercial use, for example.
* **Who worked with this?**: It’s not necessary for the entire team to work with every technology used, but we’d like to know who worked with what.

Also, feel free to extend the cell of any section if you feel you need more room.

If there’s anything we can clarify, please don’t hesitate to reach out! You can reach us using the methods outlined on the course website or see us during our office hours.

# [react-router]

## General Information & Licensing

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| --- | --- |
| Code Repository | https://github.com/remix-run/react-router |
| License Type | MIT License |
| License Description | * Commercial use is allowed * Modification is allowed * Distribution is allowed * Private use is allowed |
| License Restrictions | * There is no liability * There is no warranty regarding the program / project |
| Who worked with this? | Junwoo Park |

*Use as many of the sections below as needed, or create more, to explain every function, method, class, or object type you used from this library/framework.*

# [BrowserRouter from ‘react-router-dom’]

## Purpose

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| Replace this text with some that answers the following questions for the above tech:   * BrowserRouter adds front-end side routing logic atop of react app, specifically a browser-side routing, by adding the component wrapping around react App component. * The component is used in index.js located under /frontend/src. |

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| Dispel the magic of this technology. Replace this text with some that answers the following questions for the above tech:   * Instead of retrieving separate http request for different pages, client side routing doesn’t send out frequent http request to the server. * Where is the specific code that does what you use the tech for? You ***must*** provide a link to the specific file in the repository for your tech with a line number or number range.   + The component uses HTML 5’s history API to manage client-side routing including, url matching, history manipulation, etc.   + The code bas   \*This section may grow beyond the page for many features. |

# [Routes from ‘react-router-dom’]

## Purpose

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| Replace this text with some that answers the following questions for the above tech:   * Routes simply sets up router similar to the router with switch statement. Whenever the BrowserRouter received arbitrary URL from the user, it will iterate of all the given conditions (urls) and redirects (render) the view to the corresponding component view. * The component is used in App.jsx located under /frontend/src. |

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| Dispel the magic of this technology. Replace this text with some that answers the following questions for the above tech:   * This component replaces typical router used in the backend of the app. * Where is the specific code that does what you use the tech for? You ***must*** provide a link to the specific file in the repository for your tech with a line number or number range.   + The code is located under the /node\_modules/react-router/index.d.ts (library’s entry point) under the . The description as follows: A container for a nested tree of <Route> elements that renders the branch that best matches the current location.   \*This section may grow beyond the page for many features. |

# [Route from ‘react-router-dom’]

## Purpose

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| Replace this text with some that answers the following questions for the above tech:   * Declares an element that should be rendered at a certain URL path. * The component is used in App.jsx located under /frontend/src. |

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| Dispel the magic of this technology. Replace this text with some that answers the following questions for the above tech:   * Instead of sending out individual http response to the client sides, react app will render corresponding component view based on user’s current url. * Where is the specific code that does what you use the tech for? You ***must*** provide a link to the specific file in the repository for your tech with a line number or number range.   + The code is located under the /node\_modules/react-router/index.d.ts (library’s entry point) under the . The description as follows: Declares an element that should be rendered at a certain URL path.   \*This section may grow beyond the page for many features. |

# [Left for the future usage]

## Purpose

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| Replace this text with some that answers the following questions for the above tech:   * What does this tech do for you in your project? * Where specifically is this tech used in your project? Give us some details like file location and line number, if applicable. If too cumbersome, a general description of where it’s used for a given purpose is fine as well. |

## *Magic* ⋆★͎۪۫｡˚۰˚☽˚⁀➷｡˚★彡͎۪۫⋆ ༄

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| Dispel the magic of this technology. Replace this text with some that answers the following questions for the above tech:   * How does this technology do what it does for you in the **Purpose** section of this report? Please explain this in detail, starting from after the TCP socket is created. Remember, to be allowed to use a technology in your project, you must be able to know how it works. * Where is the specific code that does what you use the tech for? You ***must*** provide a link to the specific file in the repository for your tech with a line number or number range.   + If there is more than one step in the chain of calls *(hint: there will be)*, you must provide links for the entire chain of calls from your code, to the library code that actually accomplishes the task for you.   + Example: If you use an object of type HttpRequest in your code which contains the headers of the request, you must show exactly how that object parsed the original headers from the TCP socket. This will often involve tracing through multiple libraries and you must show the entire trace through all these libraries with links to all the involved code.   \*This section may grow beyond the page for many features. |