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.js]

## General Information & Licensing

|  |  |
| --- | --- |
| Code Repository | https://github.com/facebook/react |
| 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, Taylor Evans |

*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.*

# [React from ‘react’]

## Purpose

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| * What does this tech do for you in your project?   React lets developers to build solid single page web application as if they were building native apps, such as iOS and Android.   * 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.   For the entire frontend side, react is used for rendering UI&UX as well as managing interaction between the server side and the client side using API such as fetch API to handle http request and response. Also, the app implemented client-side routing by using react-router library. |

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| * 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.   Unlike typical frontend side stack including HTML, CSS and Javascript, react uses special syntax called ‘jsx’ that integrates all the three different stacks into single jsx file.   * 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. |

# [ReactDOM from ‘react-dom’]

## 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. |

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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. |

# [{useState} from ‘react’]

## Purpose

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# [insert method/function/class/object name here]

## Purpose

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