# 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.

## Framework: Flask

### General Information & Licensing

| | |
|---|---|
| Code Repository | https://github.com/pallets/flask |
| License Type | Django is distributed under the 3-clause BSD license. |

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|---|---|
| License Description | • The BSD license places minimal restrictions on future behavior. This allows BSD code to remain Open Source or become integrated into commercial solutions, as a project's or company's needs change.<br>• Since the BSD license does not come with the legal complexity of the GPL or LGPL licenses, it allows developers and companies to spend their time creating and promoting good code rather than worrying if that code violates licensing.<br>• The BSD license does not become a legal time-bomb at any point in the development process. |
| License Restrictions | • Neither the name of Django nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.<br>•<br>• |
| Who worked with this? | • Shawn, Andy, Ryan, Kevin |

*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.*

# Framework: Flask-SocketIO

## General Information & Licensing

| | |
|---|---|
| Code Repository | https://github.com/miguelgrinberg/Flask-SocketIO |
| License Type | Django is distributed under the MIT license. |
| License Description | • A short and simple permissive license with conditions only requiring preservation of copyright and license notices. Licensed works, modifications, and larger works may be distributed under different terms and without source code.<br>• Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so. |

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| License Restrictions | • In no event shall the authors or copyright holders be liable for any claim, damages or other liability, whether in an action of contract, tort or otherwise, arising from, out of or in connection with the software or the use or other dealings in the software.<br>• |
| Who worked with this? | • Shawn, Andy, Ryan, Kevin |

*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.*

# socket.send(message, **kwargs)

# Purpose

| |
|---|
| • This function sends a simple SocketIO message to one or more connected clients. The message can be a string or a JSON blob. |

## *Magic* ★★ ° ˙ ˚ ☽ ˚ ⌒ ˚ ★ ≡ ★ ≡

Dispel the magic of this technology. Replace this text with some that answers the following questions for the above tech:

- To send a socket IO message to the clients connected to the server Flask-SocketIO uses the send() function.
- 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.