

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.

[Flask-Socket.io]

General Information & Licensing

Code Repository	https://github.com/miguelgrinberg/Flask-SocketIO
License Type	MIT License
License Description	<ul style="list-style-type: none">• Commercial use• Modification• Distribution• Private use
License Restrictions	<ul style="list-style-type: none">• Liability• Warranty
Who worked with this?	Zaki, Kyle, Tenzin, Gorden

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.

SocketIO

Purpose

- This object is used to start up the server and allow for messages to be both received and sent from the server. Through this object we can use the functions emit() and on() where emit sends a message to all connected listeners for that message while on listens and receives messages to all connected emitters. We also use run() to start up the server
 - It's used like:
 - For emit() it usually sends the event to all listeners on the namespace due to broadcast equalling true and sometimes sending parameters for the listening function to use.
 - For run() we use it once to run the server with the flask, the port and host and our optional option debug =true
 - For on, with different messages we were able to receive data to store on our server which allows us to share between the sender and all the other clients/listeners.
- <https://github.com/TenzinR/CSE312-GroupWebsite/blob/main/app.py#L155>
For example, line 155, when on receives message "connect" we are able to validate the user, then check if they are in our online database, if not we add them to it and add them to the online list, which would update every other client's page and tell them that user has come online.

