Flask_SocketIO

General Information & Licensing

Code Repository	https://github.com/miguelgrinberg/Flask-SocketIO
License Type	MIT
License Description	- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. - Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. - The names of the contributors may not be used to endorse or promote products derived from this software without specific prior written permission.
License Restrictions	- Liability - Warranty
Who worked with this?	Everyone in the group

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 Object

Purpose

- What does this tech do for you in your project?
    - The SocketIO object gives Flask applications access to low latency bi-directional communications between the clients and the server.
    - It helps to make a permanent connection from the client to the server.
    -
- 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.
    - This tech is used in app.py.
    - We use it on lines 31-67 in app.py

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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.
  ○ The socketio object gets used after the server loads up.
  ○ We are using the socketio object on a few different keywords in the application.
  ○ We are using it for connect, disconnect, and dm.
  ○ When a user connects to the server, we add them to a list and display it on the screen.
  ○ When a user disconnects, we remove the name from the list and the screen.
  ○ We use it for dm that allows users to interact with each other.
  ○ We use it for the general chat as well and we get it to display for all users.

● 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.
  ○ https://github.com/ethannhan/codebusters/blob/main/flaskProject/app.py
  ○ We use it on lines 31-67 in app.py

*This section may grow beyond the page for many features.

emit method

Purpose

Replace this text with some that answers the following questions for the above tech:
- What does this tech do for you in your project?
  - This method helps us to emit a SocketIO event to all the connected users. This is a function that can only be called from a SocketIO event handler, as it obtains some information from the current client context.
- 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.
  - https://github.com/ethannhan/codebusters/blob/main/flaskProject/app.py
  - We use it on lines 31-67 in app.py

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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.
    - Once we start the server, we are able to emit certain messages based on the rules that we set up.
    - Depending on what rule the incoming data contains, it allows us to go to the correct next steps.
    - We use emits to send dms to other connected users.

- 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.
    - In our codebase it is being used on lines 31-67 in app.py
      https://github.com/ethannhan/codebusters/blob/main/flaskProject/app.py