MSPaintr: gevent Report

GitHub: https://github.com/gevent/gevent

1. What does this technology (library/framework/service) accomplish for you?

Gevent is used to help us run our websocket server along with our http requests. This library helps us give the illusion of asynchronous calls for bottle, which does everything synchronously.

WSGIServer

This is used to serve up the http requests and websocket requests that come in and directs them to the proper routes in our bottle application. This implements the gevent StreamServer.

StreamSever

This is used to keep track of all current clients and their requests.

2. How does this technology accomplish what it does?

WSGIServer

https://github.com/gevent/gevent/blob/master/src/gevent/pywsgi.py#L1352

This is used to create the server. It establishes a connection and listens on the port specified and servers up content based on the application it is given. It also has an optional parameter handler_class which will take in the http handler that will be used. This is a method that must take in the socker, address and server to handle requests. This method is called once per each request and does not return until the request has been processed. This Server implements gevent's stream server.

StreamServer

https://github.com/gevent/gevent/blob/master/src/gevent/server.py#L41

This is a generic TCP server from the gevent library. It listens for connections on a specified port then creates handlers for each client that makes requests.

3. What license(s) or terms of service apply to this technology?

Link: https://github.com/gevent/gevent/blob/master/LICENSE

Gevent is under the MIT License and is copyrighted by MTecknology and tgic. The MIT License allows commercial use, modification, distribution, and private use of the provided software & documentation. It does not have any warranty or liability assurance.

This license states that anyone is free to use, copy, modify, merge, publish, distribute, sublicense and/or sell copies of the software, under the condition that the copyright and permission notices be included in all copies or important portions of the software and documentation. There is also no warranty of any kind for Gevent, which means its creators and copyright holders are not liable for any damages for those who wish to use the software. For our project, this means that we are free to use Gevent with no charge. However, if anything happens to our project as a result of using Gevent, the authors/developers who created the software are not held responsible. It is the group's decision to use Gevent as part of the project.