CSE312 Open Source Report

Technology: Django Channels

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Channels is a project that takes Django and extends its abilities beyond HTTP - to handle WebSockets, chat protocols, IoT protocols, and more. It's built on a Python specification called ASGI.

It does this by taking the core of Django and layering a fully asynchronous layer underneath, running Django itself in a synchronous mode but handling connections and sockets asynchronously, and giving you the choice to write in either style.

Channels is comprised of several packages:

- Channels, the Django integration layer
- Daphne, the HTTP and Websocket termination server
- asgiref, the base ASGI library
- channels_redis, the Redis channel layer backend (optional)

The documentation can be found at https://channels.readthedocs.io/en/latest/.

The github for the project can be found at https://github.com/django/channels.

The license for the project is on their github page at https://github.com/django/channels/blob/master/LICENSE.