CSE 312 Project

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Flask Report

For this project, when developing our social media web application, we decided to use Flask. Flask is a micro web framework. This means it provides a bunch of tools and resources to easily build web applications, without using too many dependencies. Unlike normal frameworks, microframeworks are a bit lighter, which means that there are fewer updates and security dependencies. However, this means we might have to manually add to the list of dependencies or perhaps do a little more work ourselves. For the purposes of sprint 1, we had Flask handle two main tasks for us. Templating and Routing. Flask uses a templating engine called Jinja to set a basic layout for all web pages, which makes it easy to update all pages easily and keep things consistent. Its routing makes it easy to navigate between different pages in the web server itself. Each route indicates a template that is inherited from the main template. This main template ensures consistency for all pages in the frontend. Jinja is pretty powerful in itself, as it has programming logic and variables. Through these templates, Jinja can keep the formatting consistent and ensure that the data we want gets sent through the frontend with our backend python files. Through the use of this "inheritance" like feature, flask makes it easy for us to connect and make our webpages consistent on our web application.

When it comes to licensing and use, Flask comes under a three clause BSD License. According to the website, this essentially means, do whatever you want with it as long as the copyright and name of Flask stick around, and the disclaimers are present. This means that we

can reuse it practically in any way, as long as we give them credit and Copywrite credit. The

Flask creators are also not liable to the consequences of our use of their framework.

A Couple of Links to the Flask Code and Documentation

Code which helps blueprints and templating:

https://github.com/pallets/flask/blob/master/src/flask/blueprints.py

     -This code specifically deals with creating blueprints which handle templates and routes

the routes which connect the web pages

Code which helps runtime configs:

https://github.com/pallets/flask/blob/master/src/flask/config.py

- This code specifically runs like a dict which can store the various configurations needed

   to run the code.

Security Features that are given to us by Flask:

https://github.com/pallets/flask/blob/master/src/flask/cli.py

Link to Github of Flask: https://github.com/pallets/flask

Flask Documentation: https://flask.palletsprojects.com/en/0.12.x/