

Open-Source Report

Proof of knowing your stuff in CSE312

Flask (Python)

General Information & Licensing

Code Repository	https://github.com/pallets/flask
License Type	BSD 3-Clause New or Revised License
License Description	<p>This type of license is a permissive free software license similar to BSD 2-Clause with minimal limitations. Here, an additional clause exists prohibiting users from using the copyright holder's name to promote derived products without written consent.</p> <p>Drawing directly from the flask license: "Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none">1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.2. 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.3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission."<p>The following are permissible under the above license:</p><ol style="list-style-type: none">1. Commercial Use2. Modification3. Distribution4. Private Use
License Restrictions	<p>Following from the above, this license allows for a wide range of permitted use.</p> <p>Restrictions, however, do exist surrounding liability and warranty. Copyright holders have explicitly distanced themselves from association with the products derived from this framework without explicit written consent.</p>

- The route() function within the scaffold class in flask/src/flask/scaffold.py , line 423 takes in the added URL as an input. An extra method can be added to the function to be executed once the URL is received.

```
@app.route("/")
```

- The app.route

<https://github.com/pallets/flask/blob/main/src/flask/wrappers.py>

- Flask creates a request instance. Request class in Flask is a wrapper around request class in werkzeug (15-133)

<https://github.com/pallets/werkzeug/blob/3115aa6a6276939f5fd6efa46282e0256ff21f1a/src/werkzeug/wrappers/request.py>

- Defines request class in werkzeug

<https://github.com/pallets/werkzeug/blob/3115aa6a6276939f5fd6efa46282e0256ff21f1a/src/werkzeug/datastructures.py#L1354>

- Starting at 1354, data structure of headers environment is defined

Final Destination:

<https://github.com/pallets/werkzeug/blob/3115aa6a6276939f5fd6efa46282e0256ff21f1a/src/werkzeug/http.py>

- Code parses headers based on format set by environment