

# OKTA Authentication Services with Flask

Navdeep Kaur

# What is OKTA?

- ▶ OKTA is an API service that stores user accounts, and makes handling user authentication, authorization, login, password resets very simple.
- ▶ utilizes open standards like OpenID Connect to make integration smooth. OpenID is an open protocol that makes managing user authentication and authorization simple.
- ▶ Connects any person with any application on any device.
- ▶ It is used many industries ranging from small businesses to large corporations.

# What is Flask?

- ▶ Flask is a web framework written in Python
- ▶ It allows us to develop web applications easily
- ▶ The benefit of Flask is its ability to develop and maintain applications.
- ▶ Routing URL is easy and simple
- ▶ There is a high scalability for simple applications

# Steps to set up OKTA

- ▶ 1. Set up an OKTA account and store your URL.
- ▶ 2. Next is to create an application on the OKTA website using OPENID Connect
- ▶ 3. Create a token key and make sure it is stored somewhere since you only get to see it once.
- ▶ 4. Enable user registration so that when users try to login or register, it will let them do so without any trouble.

# Steps to set up login/registration system

- ▶ 1. Create a config file that has the client id, client secret, your URL, and the URL for login redirect
- ▶ 2. Next is to configure the FLASK OIDC. Flask-OIDC is an extension to Flask that allows you to add OpenID Connect based authentication to your website in a matter of minutes.
- ▶ 3. Inject user into each request. That means to identify the user, make changes to their account if necessary, and store and retrieve the user's information. You can create a main file called `app.py` and store all the functions there.
- ▶ 4. Last step is to enable user registration, login, and logout. In this last step, the user should be redirected to the login view to register or login.

# Important commands

- ▶ `Cd desktop`
- ▶ `Cd flask`
- ▶ `Pipenv shell`
- ▶ `Pipenv install flask`
- ▶ `Ls`
- ▶ `FLASK_APP=app.py flask run`

# Resources

- ▶ <https://developer.okta.com/blog/2018/07/12/flask-tutorial-simple-user-registration-and-login>
- ▶ <https://flask-oidc.readthedocs.io/en/latest/>
- ▶ [https://support.okta.com/help/s/article/What-is-Okta?language=en\\_US](https://support.okta.com/help/s/article/What-is-Okta?language=en_US)