App Deployment 101

Deploy your Python App on Heroku

Agenda

01

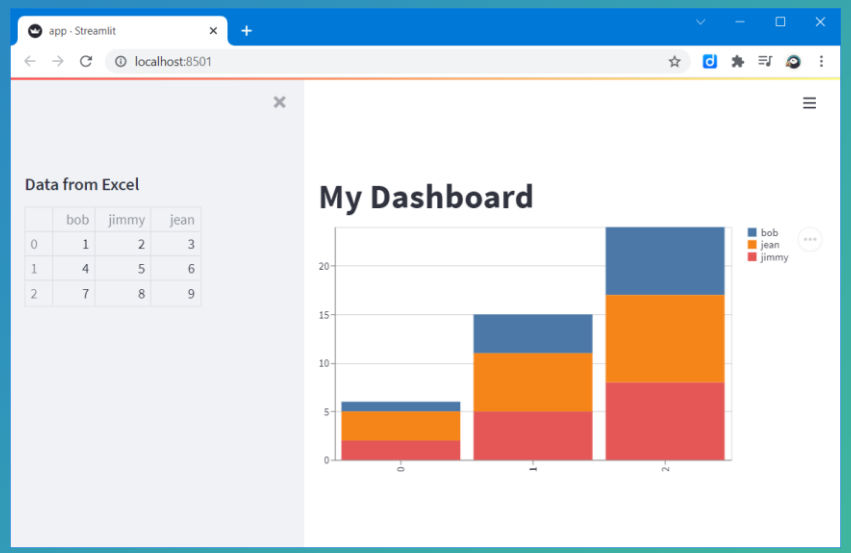
Get started with programming in Python

02

Develop your first web app with Streamlit

03

Deploy with Git & Heroku



Outcome

At the end of this training, you should be able to deploy the following web app to Heroku.

1. Get started with programming in Python

- Download Python: https://www.python.org/
- Why Python: Number 1 language according to TIOBE index
- Open Terminal, and run python:

```
>>> print("Hello World")
```

2. Develop your first web app with Streamlit

- Install via PIP (package manager for Python):

```
$ pip install streamlit
```

- Or if you cannot find pip:

```
$ python3 -m pip install streamlit
```

- Develop your first app.py:

```
import streamlit as st
st.write(“Hello World!”)
```

3. Deploy with Git & Heroku

- Learn the basics about source control with Git: https://git-scm.com/
- Heroku tutorial: https://devcenter.heroku.com/articles/getting-started-with-python
- **Required files**
    1. setup.sh
    2. Procfile
    3. requirements.txt

Deploy the app

```
$ heroku login
```

```
$ heroku create
```

```
$ git push heroku main
```

HEROKU