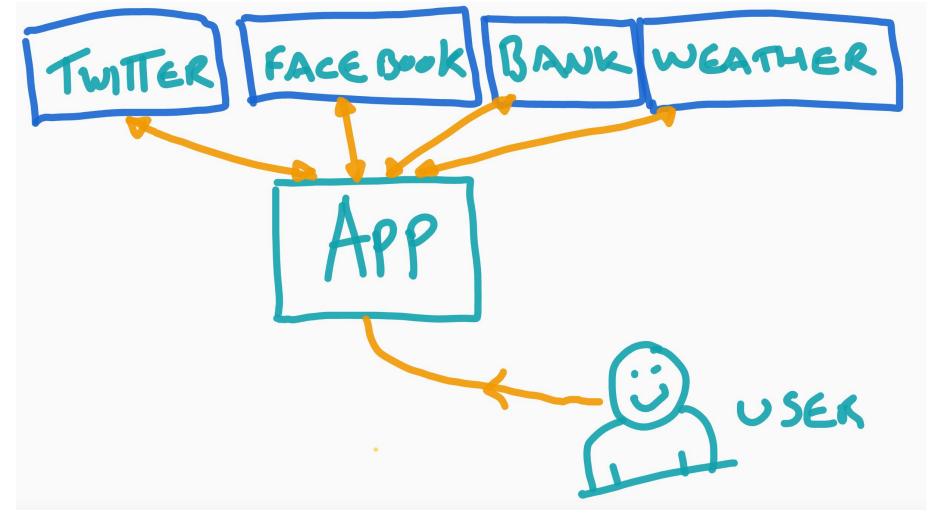
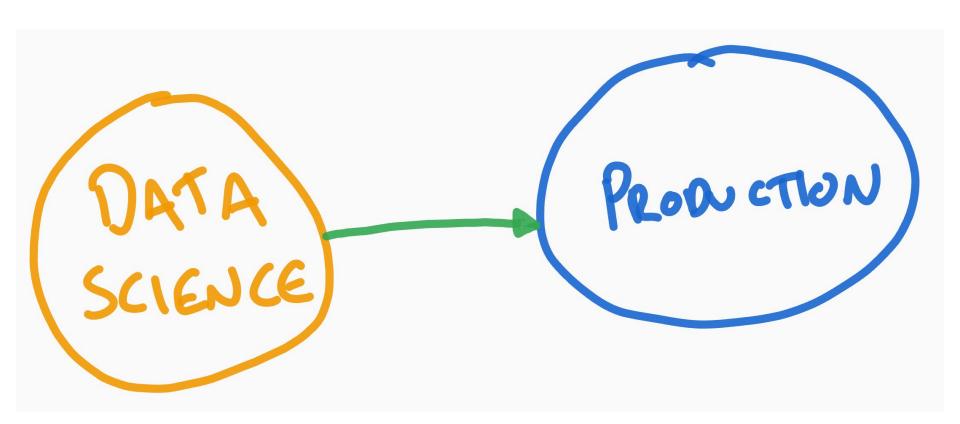
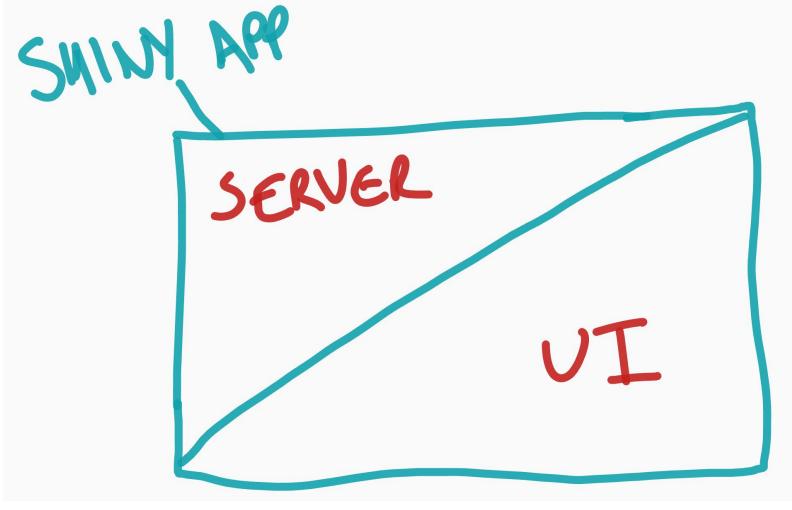
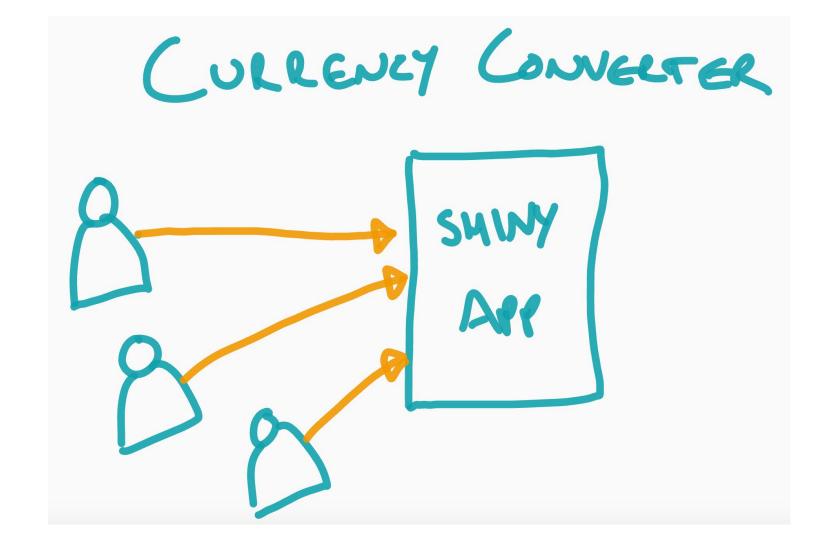


# WHAT'S AN API.









enkine el 2nd Corroncy convertes

Dont APPLIES TO ARCHITECTURE Repeat 100. Y our self

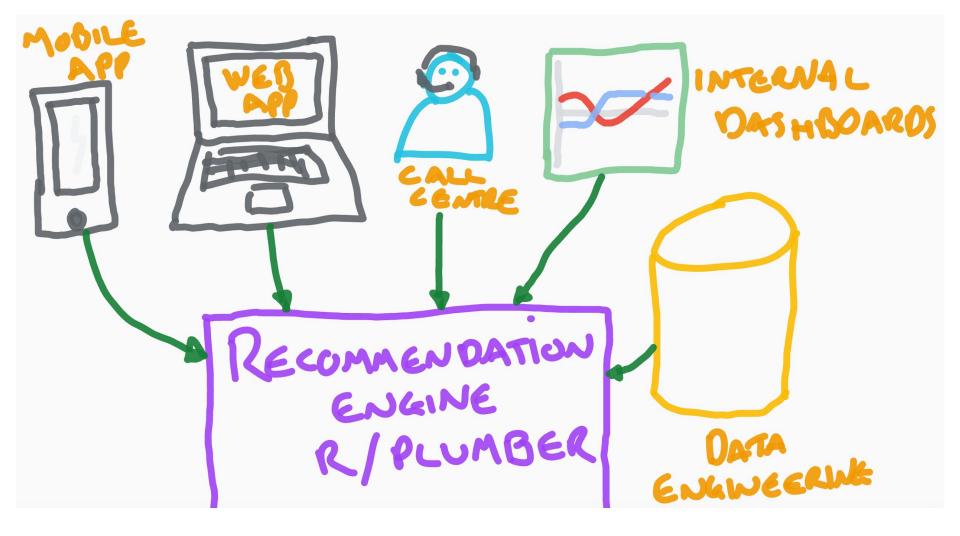
FUNCTION: RE-USABLE COMPONENT INSIDE AN APPLICATION

### WED APT:

RE-USABLE COMPONENT NOT COUPLED TO A SPECIFIC APPLICATION

ENGINEER IN RUSING PLUMBER

MAKE THAT MAPPEN # Qaet /endpoint



#### PLUMBER OUTPUTS:

- 350N
  - · HTML

· IMAGES

## ANOTHER EXAMPLE



YES, IT'S AN IRIS! -\\_("")\_/

# IRIS SPECIES PREDICTION APL

SEPAL LENGTH? SEPAL WIDTH } PETAL LENGTH PETAL WIDTH LUMBER REDICTED + OUTPUT +

```
fit.lda <- readRDS("./iris.fit.lda.rds")</pre>
#* @get /predict
function(Sepal.Length, Sepal.Width, Petal.Length, Petal.Width) {
  inputData <- list("Sepal.Length"=as.double(Sepal.Length),
                     "Sepal.Width"=as.double(Sepal.Width),
                     "Petal.Length"=as.double(Petal.Length),
                     "Petal.Width"=as.double(Petal.Width))
  predict(fit.lda, inputData)
```

```
r <- plumber::plumb("iris-api.R")
r$run(port=5000)</pre>
```

```
#!/usr/bin/env bash
set -eu
echo -n "Should get 'setosa' - API returns: "
curl -s 'http://localhost:5000/predict?Sepal.Length=5.5&Sepal.Width=4.2&Petal.Length=1.4&Petal.Width=0.2'
echo
echo -n "Should get 'versicolor' - API returns: "
curl -s 'http://localhost:5000/predict?Sepal.Length=5.4&Sepal.Width=3.0&Petal.Length=4.5&Petal.Width=1.5'
echo
echo -n "Should get 'virginica' - API returns: "
     -s 'http://localhost:5000/predict?Sepal.Length=5.9&Sepal.Width=3.0&Petal.Length=5.1&Petal.Width=1.8'
echo
```

sellorm \$ ./test-iris-api.sh
Should get 'setosa' - API returns: ["setosa"]

Should get 'versicolor' - API returns: ["versicolor"]

Should get 'versicolor' - API returns: [ versicolor ]
Should get 'virginica' - API returns: ["virginica"]

SEPAL LENGTH? SEPAL WIDTH } PETAL LENGTH PETAL WIDTH LUMBER REDICTED + OUTPUT +

#### SUMMARY:

- · CREATE WEBACCESSIBLE FUNCTIONS
- . ALCESS FROM OTHER APPS
- · IF YOU CAN WRITE A FUNCTION IN R YOU CAN USE PLUMBER
- · HOSTING APIS IS HARDER
- · ITS A LOT OF FUN!

blog. Sellorm. Com