

# Recap

- HTML elements
- . CSS
  - positioning
  - selectors

## LAB 7

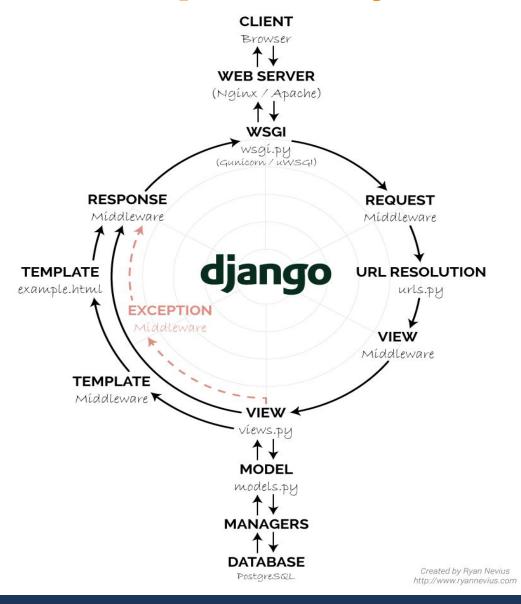
Request-Response cycle, Django Templates



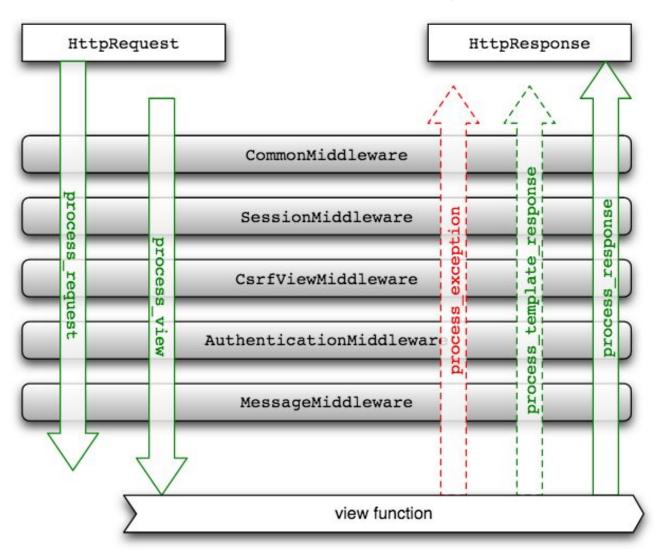
### **AGENDA**

- Product mindset
  - https://www.3pillarglobal.com/how-we-do-it
- Request / Response
- Django Templates

## Request Response Cycle



## Request Response Cycle



## **Django Template Loader**

- Template == HTML
- Different template languages
  - Django template
  - Jinja
  - Handlebars
  - Mustache
- Template loader returns a template matching a given name;
- Templates object are rendered with a context;
   This is the actual content of the http response

## **Django Template Loader**

```
TEMPLATES = [{
    'BACKEND': 'django.template.backends.django.DjangoTemplates',
    'DIRS': [], # extra dirs
    'APP_DIRS': True,
    'OPTIONS': { # ... some options here ...
}
```

- Application specific templates are loaded automatically by Django from:
  - o function views:
    - my\_app/templates/my\_app/index.html
  - class-based views:
    - my\_app/templates/my\_app/{model}\_detail.html

#### Context

- A dictionary used when rendering the template
- Can pass variables to the template
- Combined from base dictionary with data from context processors

#### **Context Processor:**

- Used for variables that you want to be exposed on all templates like the request object
- Ex: request, user, messages

## Django Template language

- Minimum amount of logic;
- Template tags: {% tag\_name %}
- Variables from context: {{ variable[.method] }}
- If variable is undefined in context, the result will be an empty string (doesn't raise an error)
- Filters: first, join, safe, escape, truncatewords
- You can build your own filters and template tags

## **Template tags**

- Flow control
  - {% if True %}{% else %}{% endif %}
  - {% for elem in iterable %}{% endfor %}
- Simple template tags
  - csrf\_token, date, url, static, include, extends

https://docs.djangoproject.com/en/1.11/ref/templates/builtins/

## Workshop

- Use mock data (no persistency)
- Create the poll app index page
- Create the poll detail view
- Styling using Bootstrap

# Quiz time:)

https://goo.gl/forms/7XFpdTeCvhDSWhu13



# Thank you!

