## Overview



The Model-Template-View pattern

Add Jinja templates

Add a data model

- Text file (JSON), no actual DB

How do the MTV components interact?



## Demo



### Jinja templates

- Displaying data to the user
- Generating HTML
- Calling templates from view
- Passing data from view to template
- Jinja variables



# Jinja Templates



### **Templates**

- Components that *display* data to the user

#### Jinja templates generate text files

We use it to create HTML

### Templates are text files

- With placeholders for variables
- And logic: if, for, filters, etc.



A Jinja Template Example {{ var }} looks up var in the template context Other text is copied to HTML output This creates dynamic HTML page



Calling a Template from a View render\_template: first argument is name of template file

Other arguments are data passed to the template context

Templates should be in folder /templates

Don't forget the return keyword

# Demo



## Adding a model layer

- Represents our data
- Text file instead of database



# Model-Template-View

Model

Data

Usually from DB

Flask: leaves it to us

**Template** 

**Presentation** 

**Generates HTML** 

In Flask: Jinja2

View

Behaviour

Python function

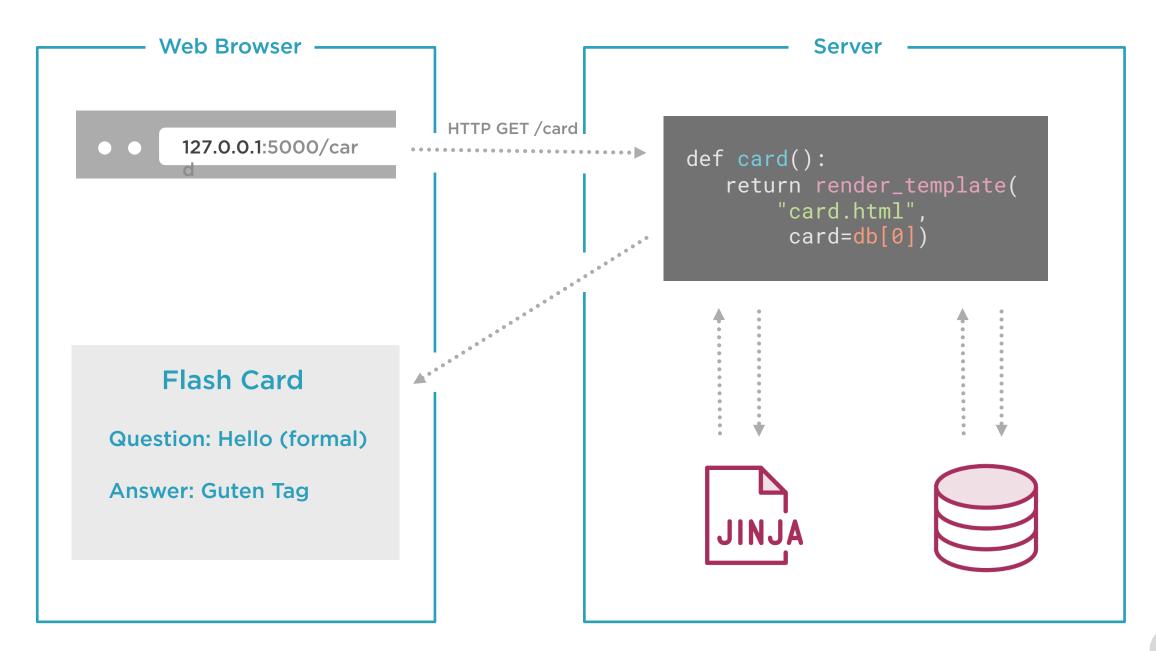
Mapped to URL

Model

View

Controller







# Summary



#### The Model-Template-View pattern

### Jinja templates

- Jinja variables
- Calling templates from views
- Sending data from view to template

#### Add a data model

- Text file (JSON), no actual DB

