

Charles  
Severance  
[www.dj4e.com](http://www.dj4e.com)

# Model View Controller (MVC)

# Web Server

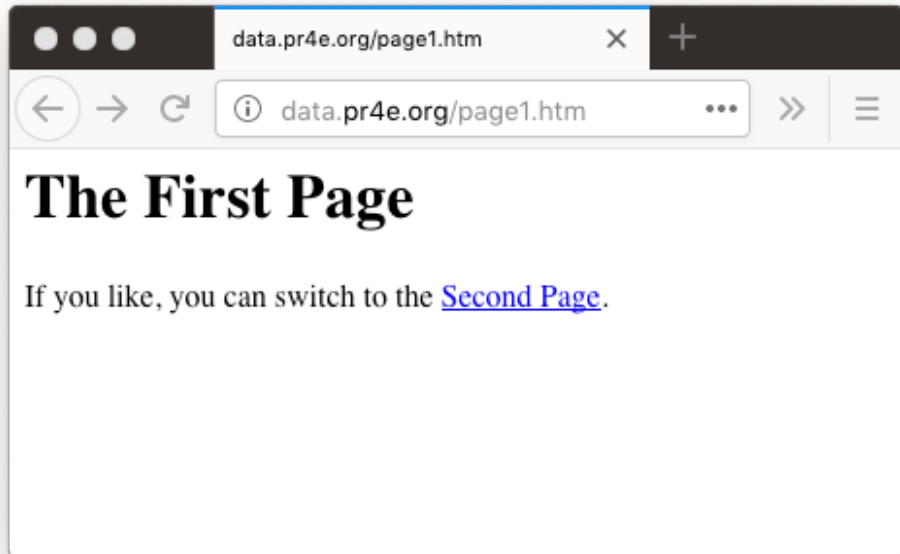
80

**Request**

**Response**

GET http://data.pr4e.org/page2.htm

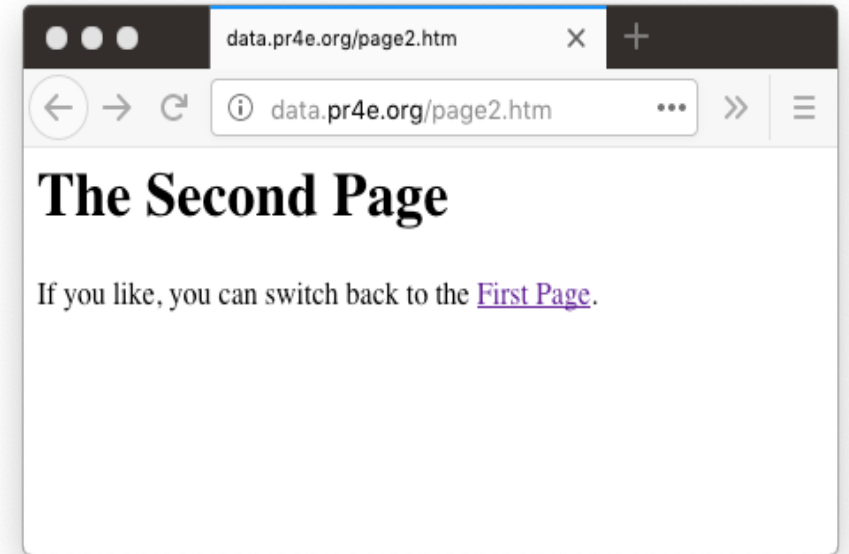
<h1>The Second Page</h1>  
<p>If you like, you can switch back to the  
<a href="page1.htm">First Page</a>.</p>



**Browser App**

Click

Parse/  
Render



Web Server

??????

80

Request

Response

Browser  
App

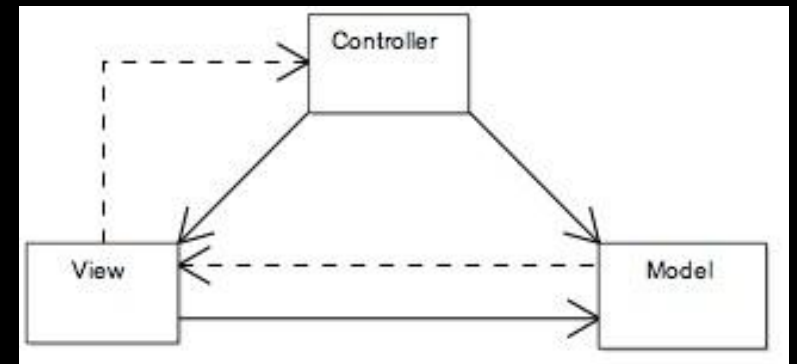
GET http://data.pr4e.org/page2.htm



```
<h1>The Second Page</h1><p>If  
you like, you can switch back to the  
<a href="page1.htm">First  
Page</a>.</p>
```

# Model-View-Controller

*“In MVC, the **model** represents the information (the data) of the application and the business rules used to manipulate the data; the **view** corresponds to elements of the user interface such as text, checkbox items, and so forth; and the **controller** manages details involving the communication to the model of user actions.”*



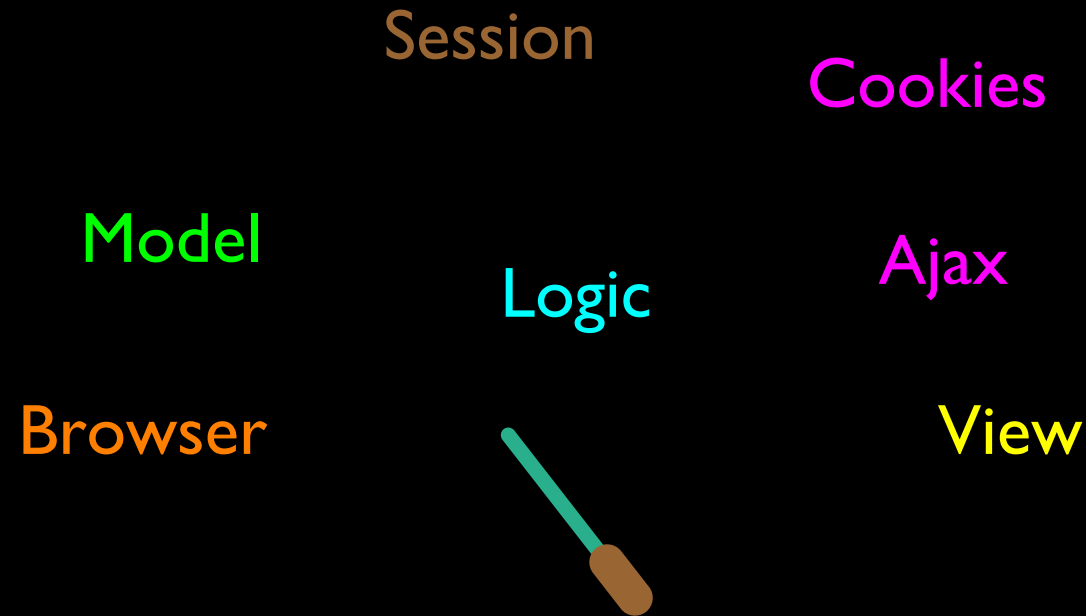
<http://en.wikipedia.org/wiki/Model-View-Controller>

# Model View Controller

- We name the three basic functions of an application as follows
  - **Controller** - The code that does the thinking and decision making
  - **View** - The HTML, CSS, etc. which makes up the look and feel of the application
  - **Model** - The persistent data that we keep in the data store

<http://en.wikipedia.org/wiki/Model-view-controller>

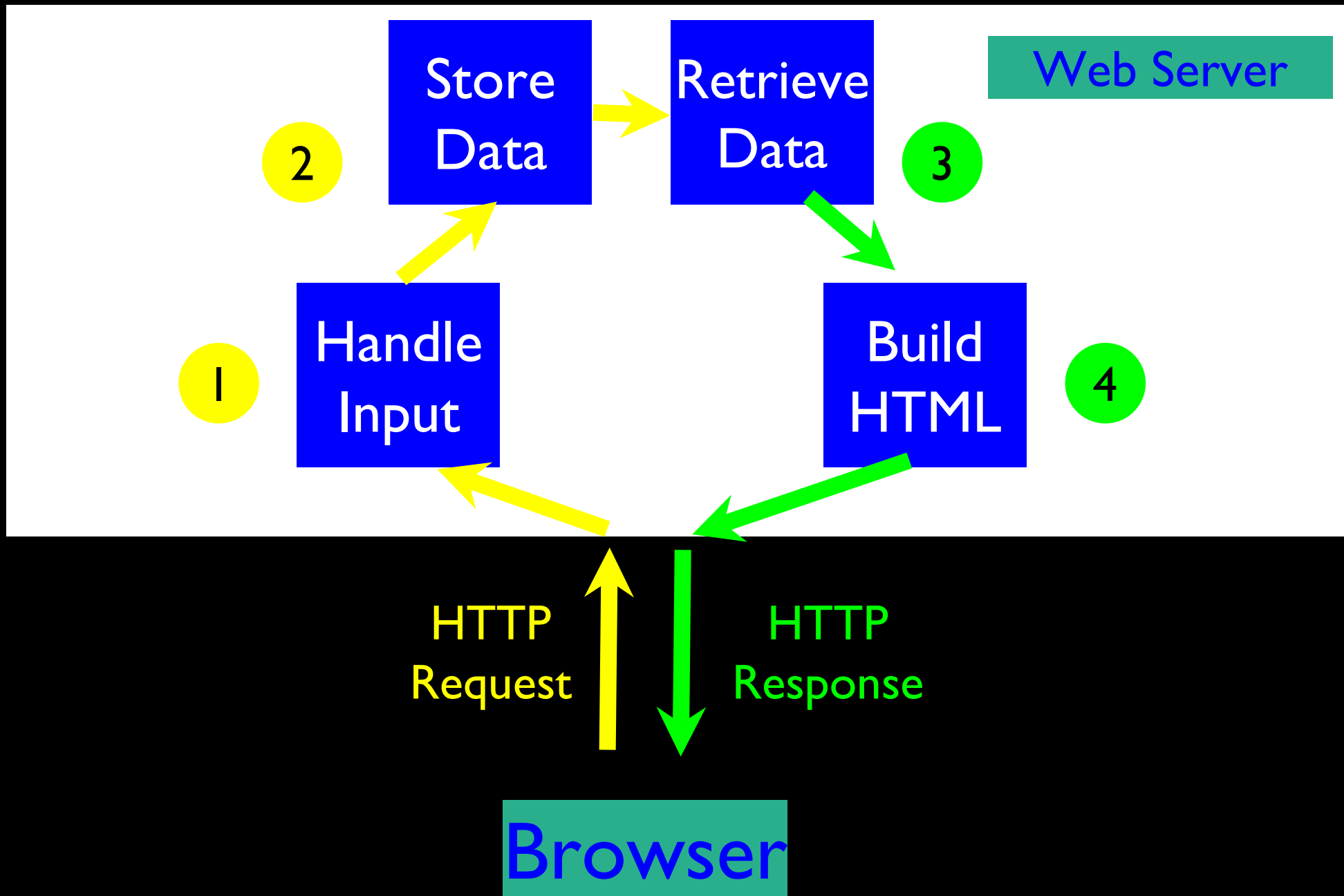
# Controller “Orchestrates”



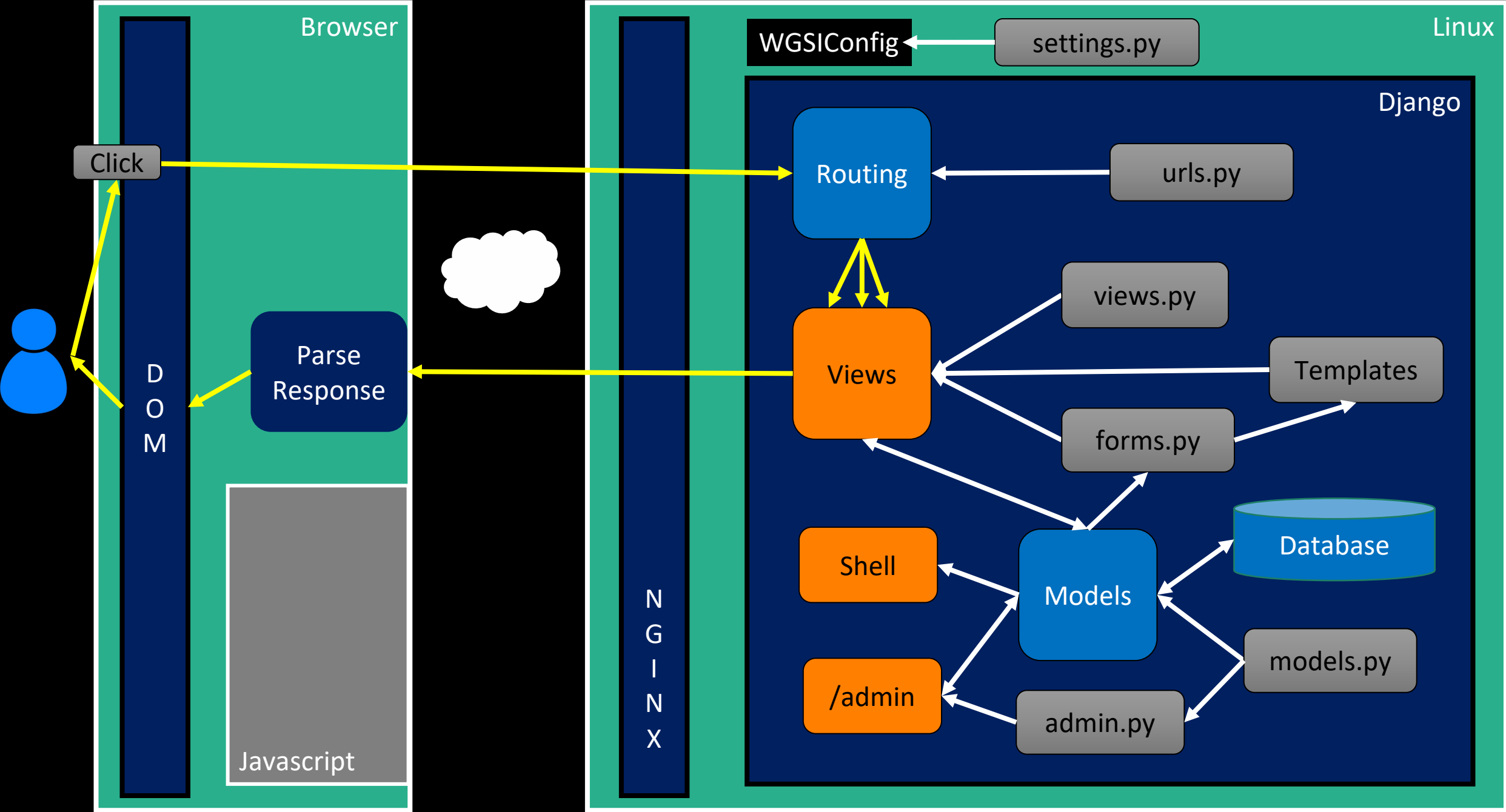
The controller is the conductor of all of the other aspects of MVC.

# Tasks Inside the Server

- Process any user input data (i.e. from a form) - possibly storing it in a database or making some other change to the database such as a delete
- Decide which screen to send back to the user
- Retrieve any needed data
- Produce the HTML response and send it back to the browser (i.e. a template)







# Summary

- We call the Data bit - the “Model” or Data Model
- We call the “making the next HTML” bit the “View” or “Presentation Layer”
- We call the handling of input and the general orchestration of it all the “Controller”

# Acknowledgements / Contributions

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