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Model View Controller (MVC)

Web Server

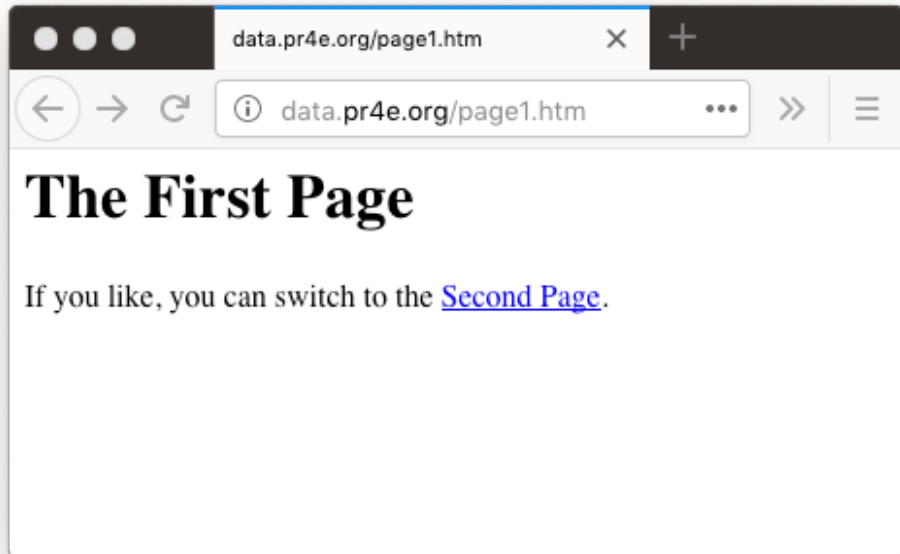
80

Request

Response

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

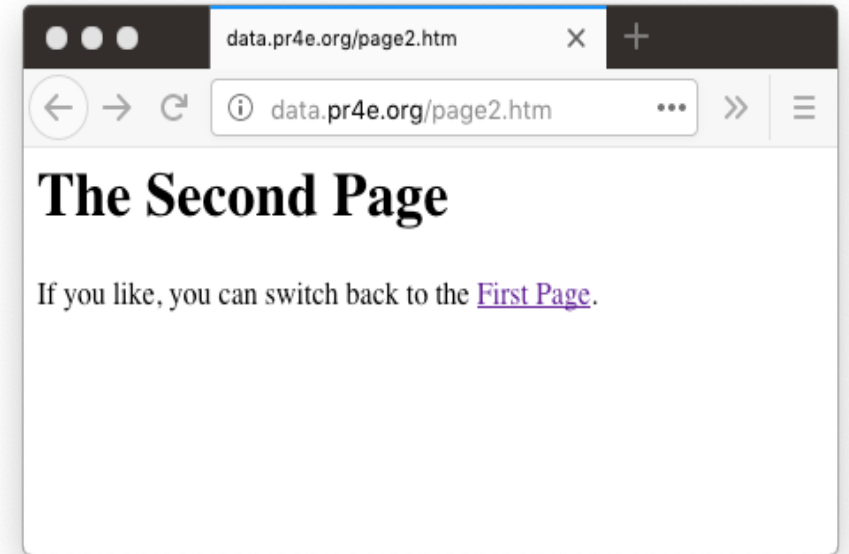
```
<h1>The Second Page</h1>
<p>If you like, you can switch back to the
<a href="page1.htm">First Page</a>.</p>
```



Browser App

Click

Parse/
Render



Web Server

??????

80

Request

Response

Browser
App

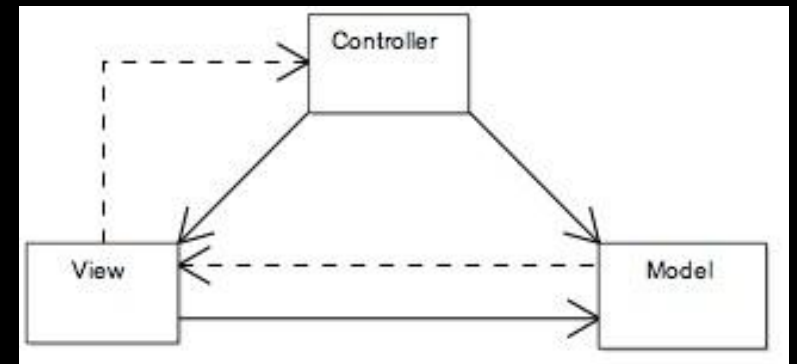
GET http://data.pr4e.org/page2.htm



```
<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.”*



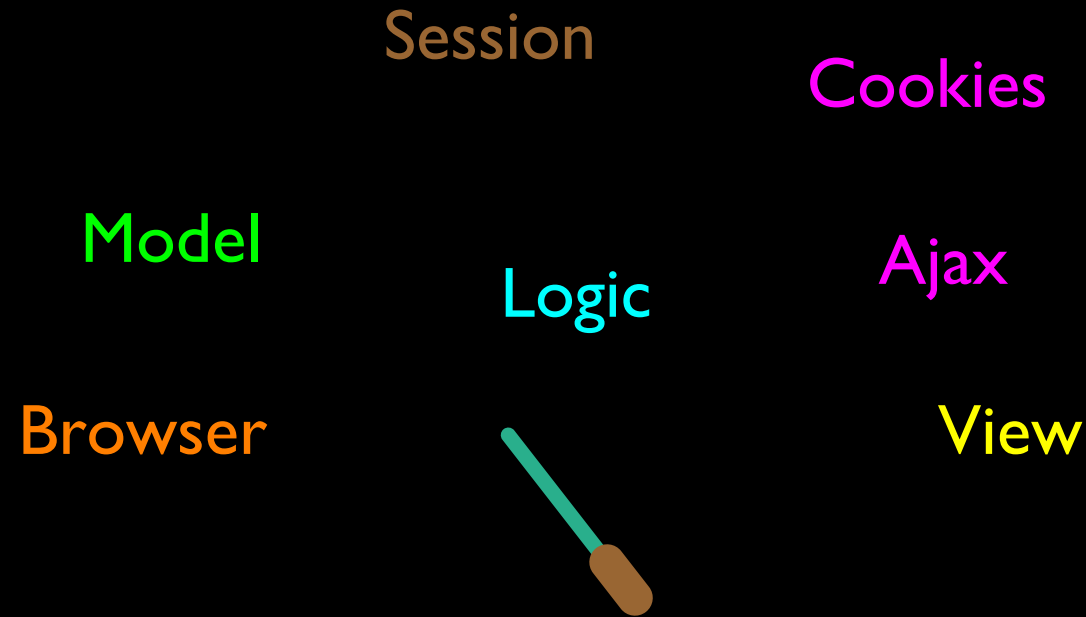
<http://en.wikipedia.org/wiki/Model-View-Controller>

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>

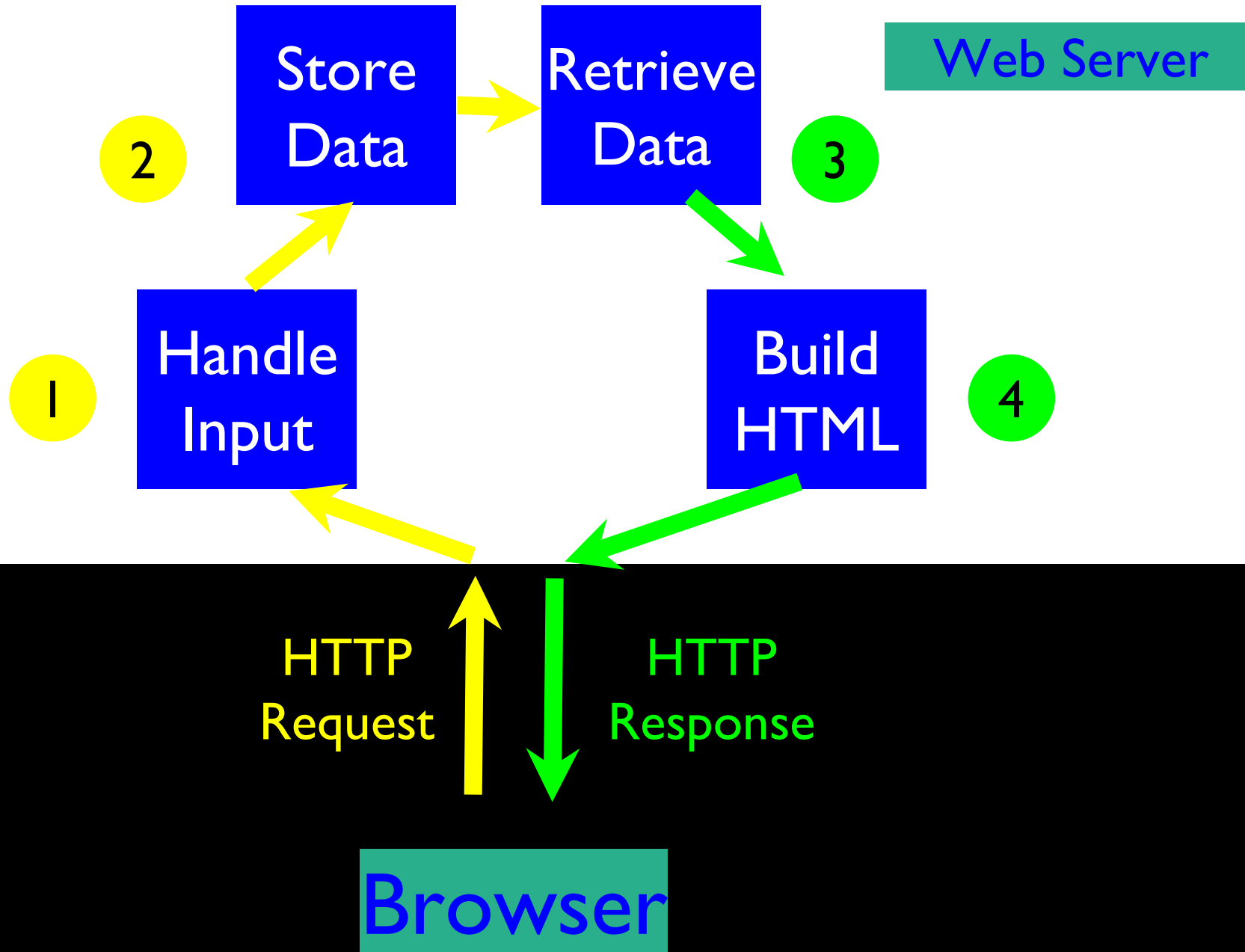
Controller “Orchestrates”

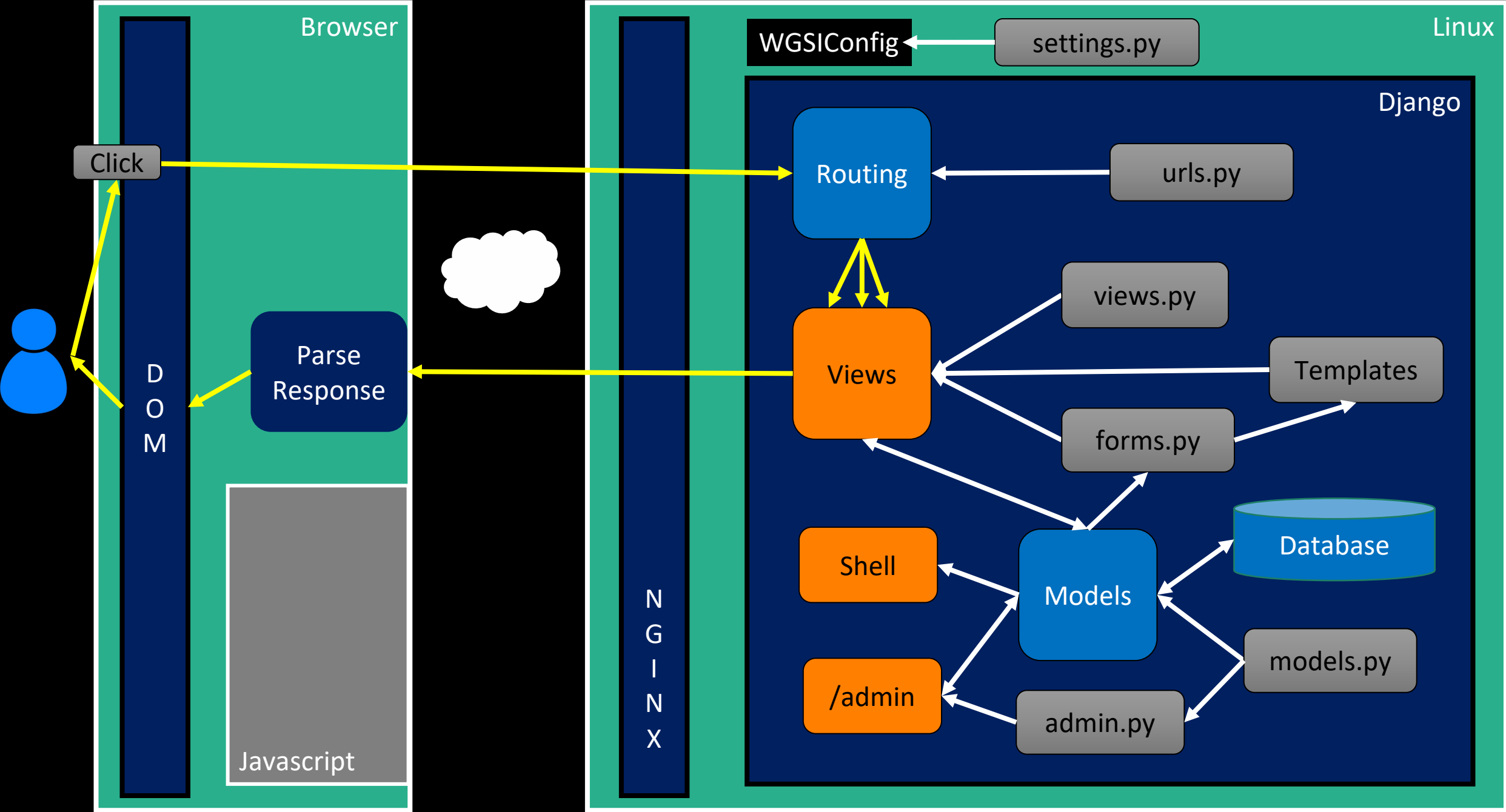


The controller is the conductor of all of the other aspects of MVC.

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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