

RUTGERS | CODING BOOTCAMP

# Session 15.1 - MVC & Sequelize

# MVC & Sequelize

# Objectives

- Students will learn the concept behind MVC
- Students will learn to make database interaction easier and cleaner with Sequelize ORM

# What is a Design Pattern?

In software engineering, a software design pattern is a general reusable solution to a commonly occurring problem within a given context in software design. It is not a finished design that can be transformed directly into source or machine code.

Which design patterns have we seen or used?

# Design Patterns We've Used

- Responsive Web Design
- Object Oriented Design
- Client/Server Model
- ORM - Object Relational Mapping
- MVC

# What Is MVC?

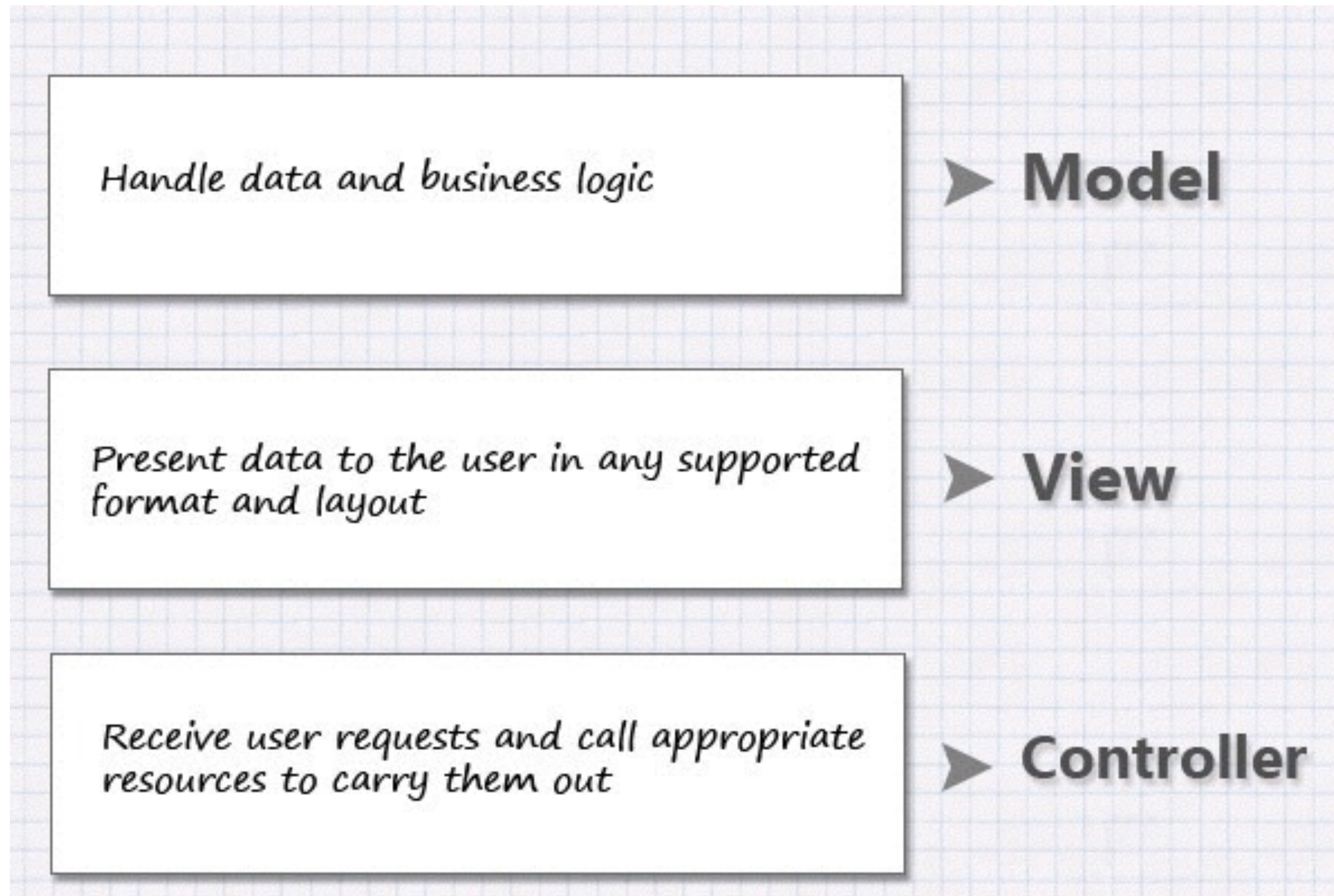
- Model - The data and structure of the application
- View - The user interface of the application: HTML, API/JSON, PDF, CSV
- Controller - The code that handles the application logic and routing of the requests to the application.



# What Is MVC?

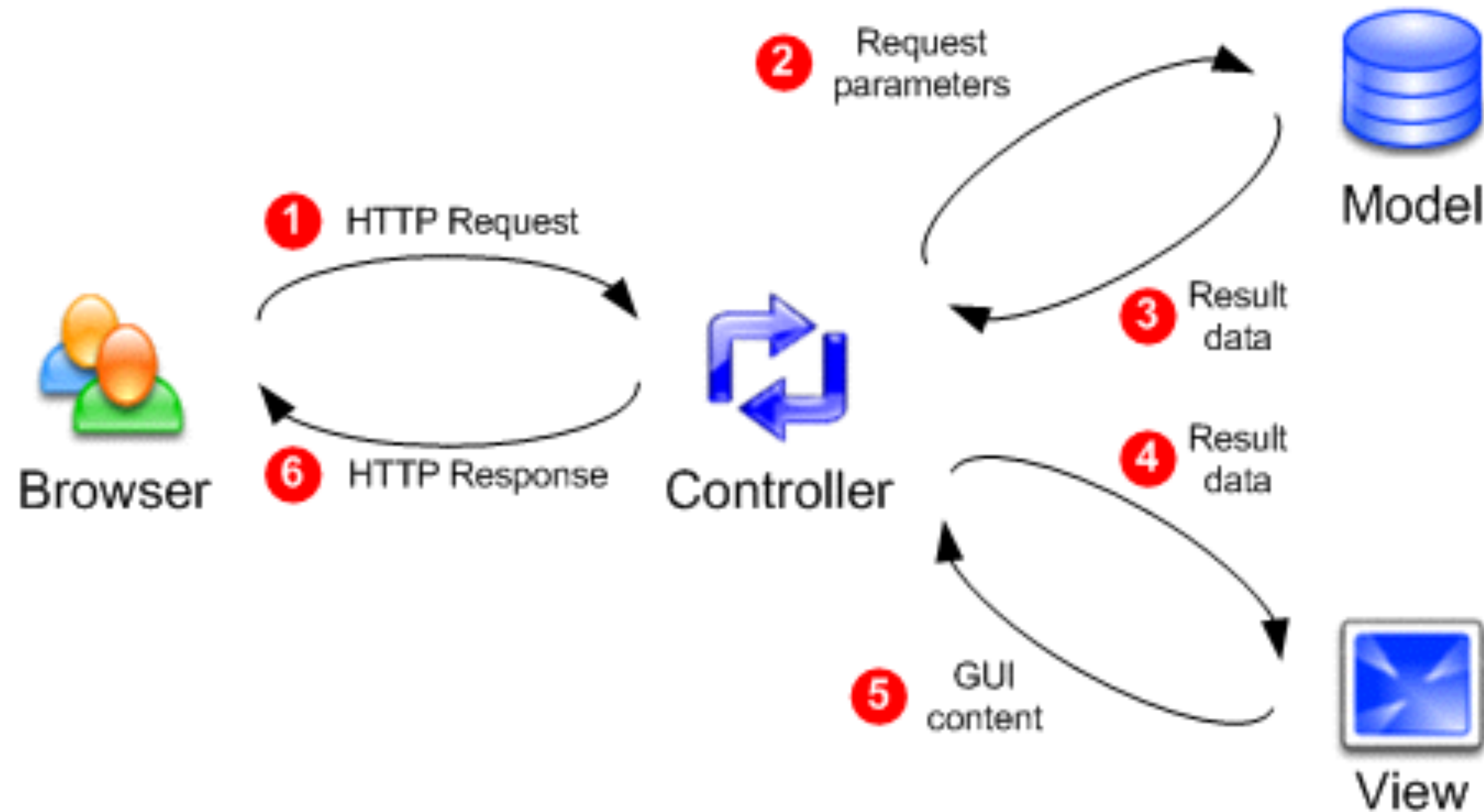
- **M**odel - The data and structure of the application. The model represents the data, and does nothing else. The model does NOT depend on the controller or the view.
- **V**iew - The user interface of the application: HTML, API/JSON, PDF, CSV. The view displays the model data, and sends user actions (e.g. button clicks) to the controller.
- **C**ontroller - The code that handles the application logic and routing of the requests to the application. The controller provides model data to the view, and interprets user actions such as button clicks. The controller depends on the view and the model.

# What Is MVC?

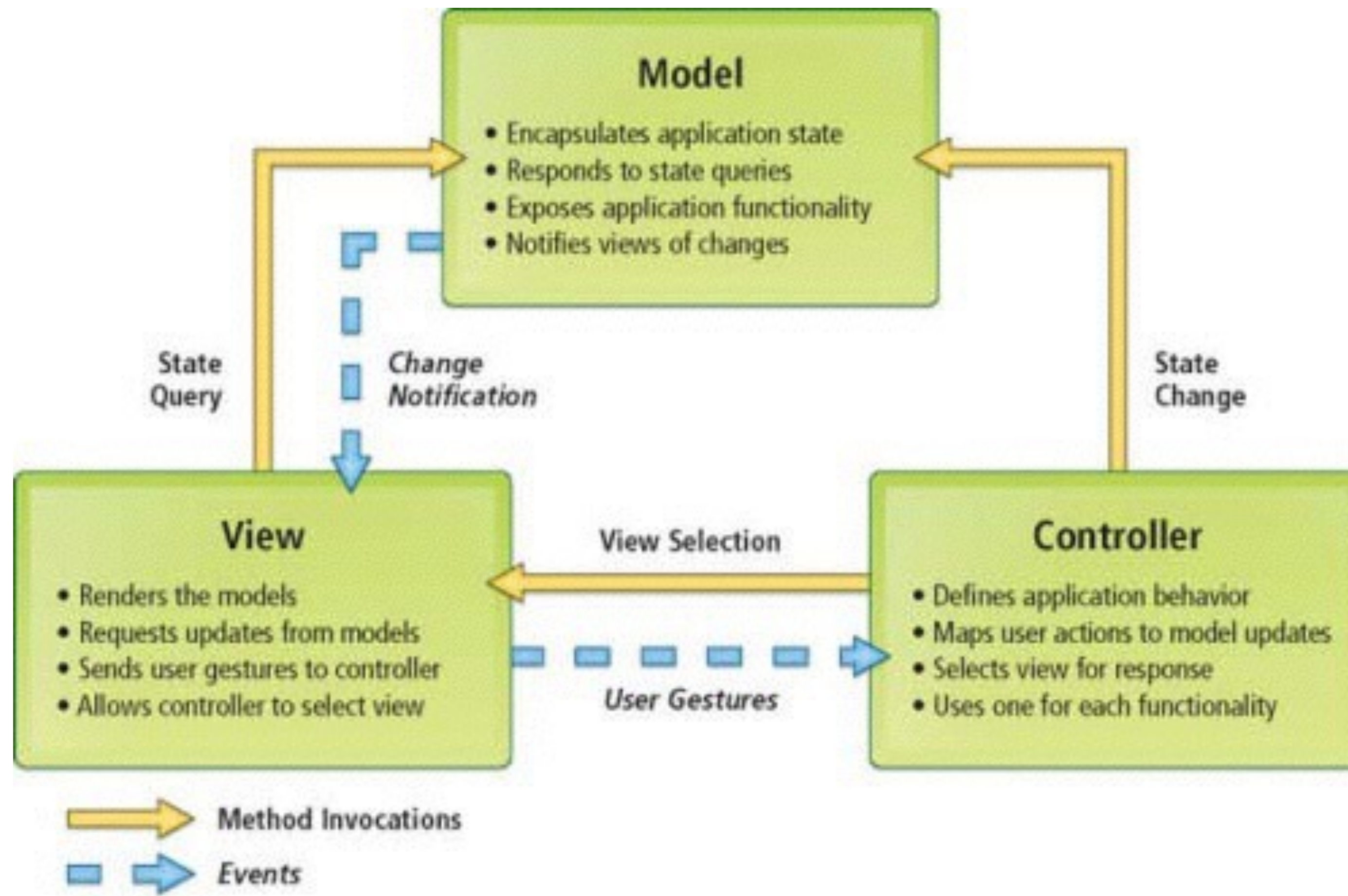




# What Is MVC?



# What Is MVC?





# What Is MVC?



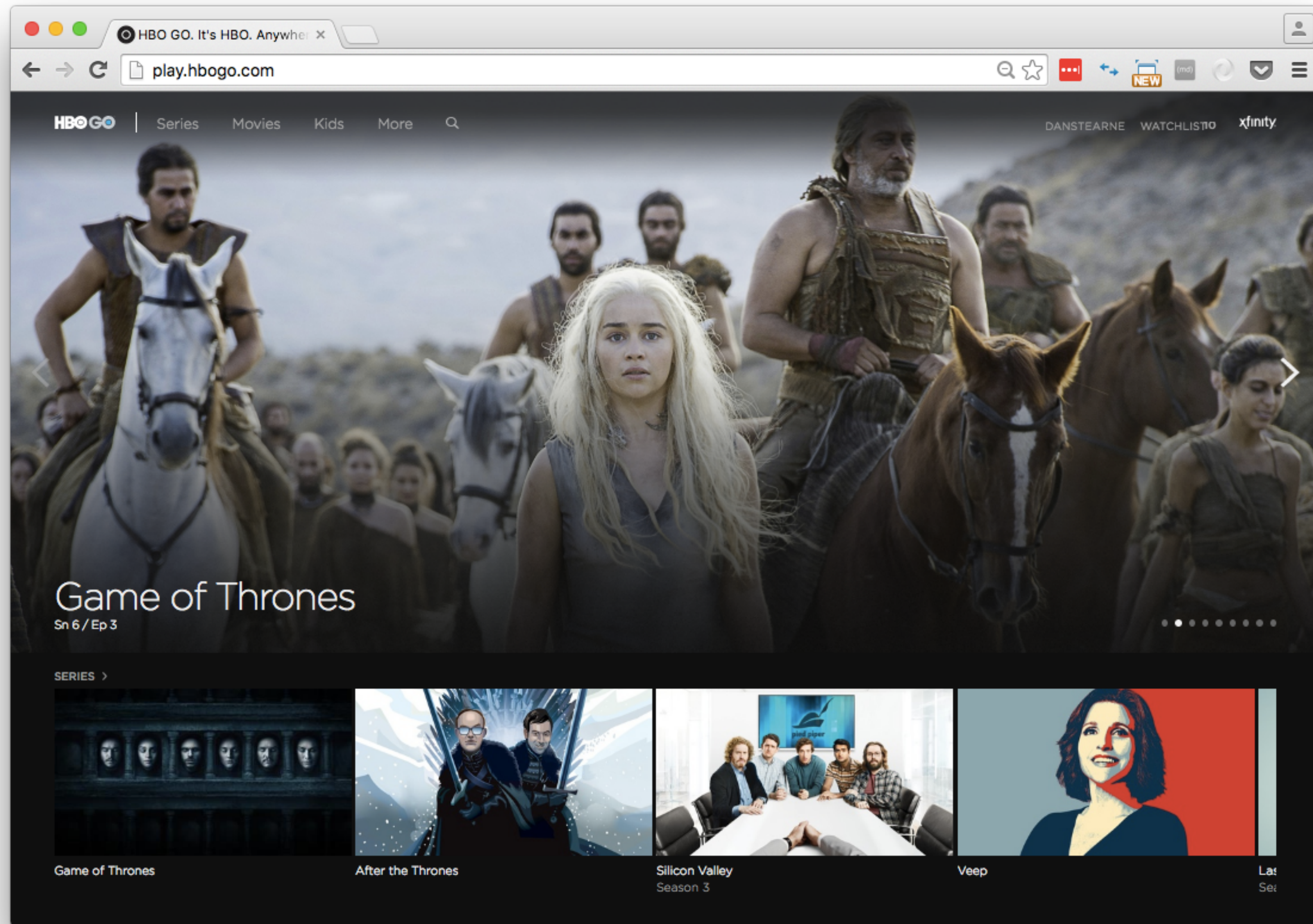
What is stored in the Model?

What is the View?

What does the Controller do?



# What Is MVC?



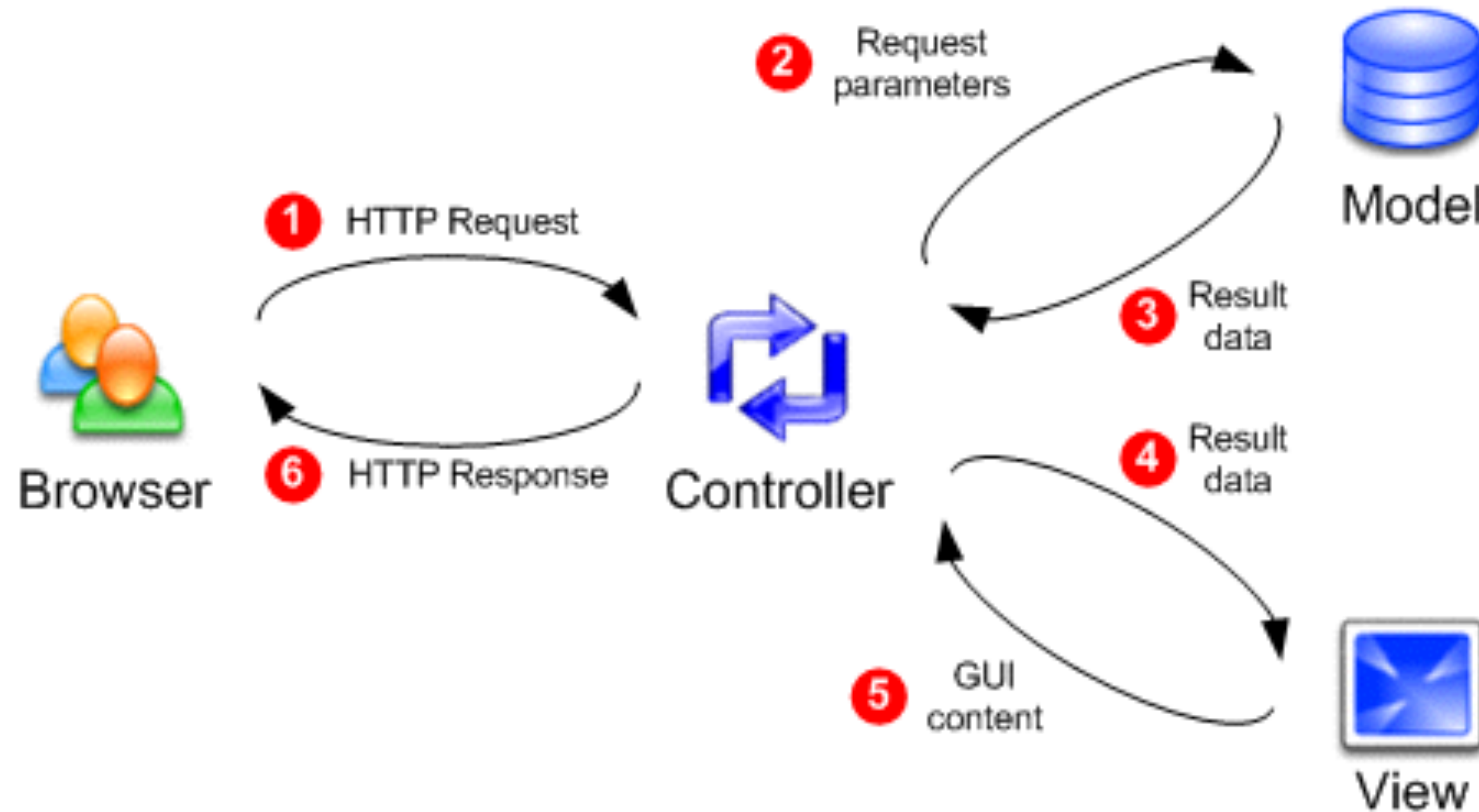
What is stored in the Model?

What is the View?

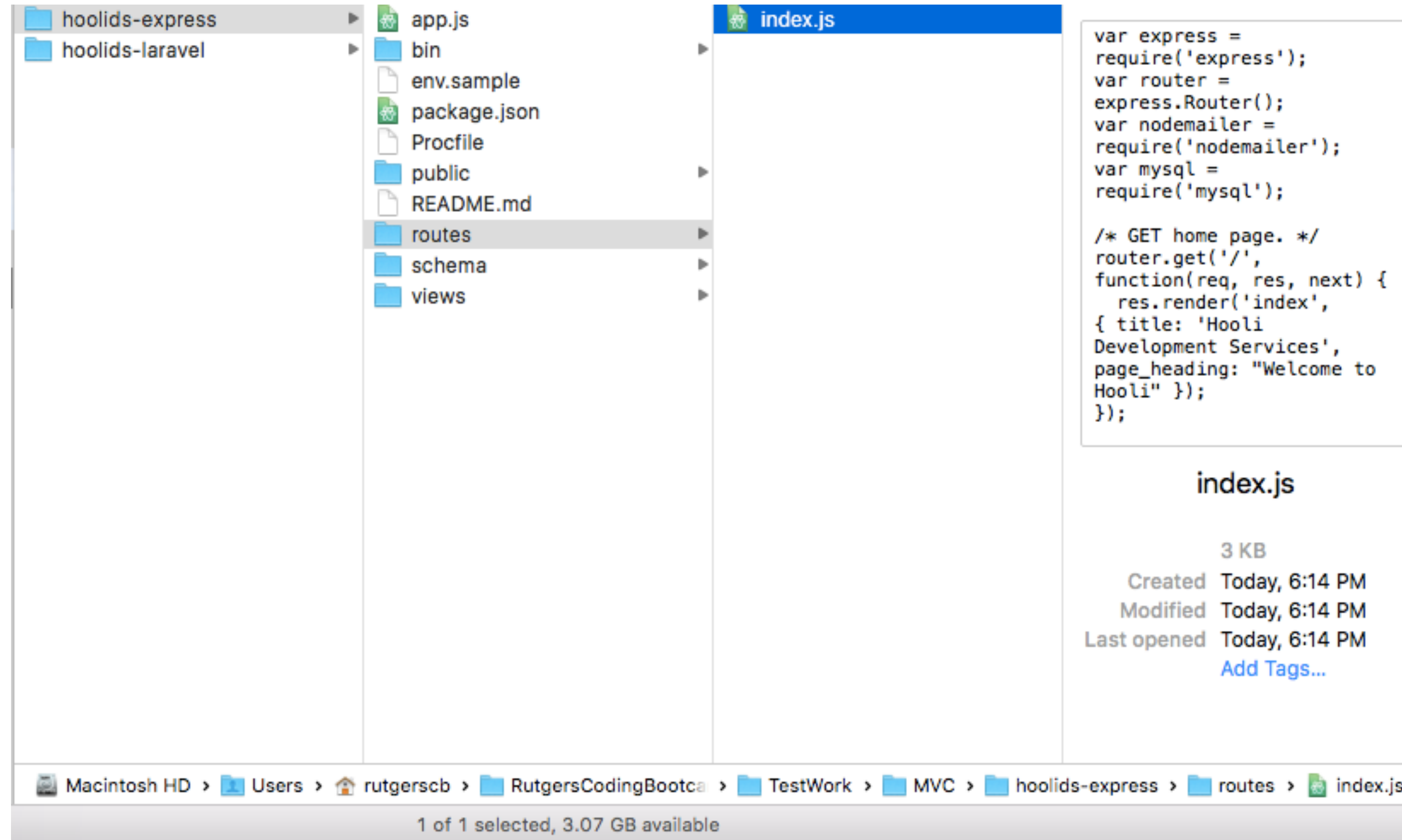
What does the Controller do?



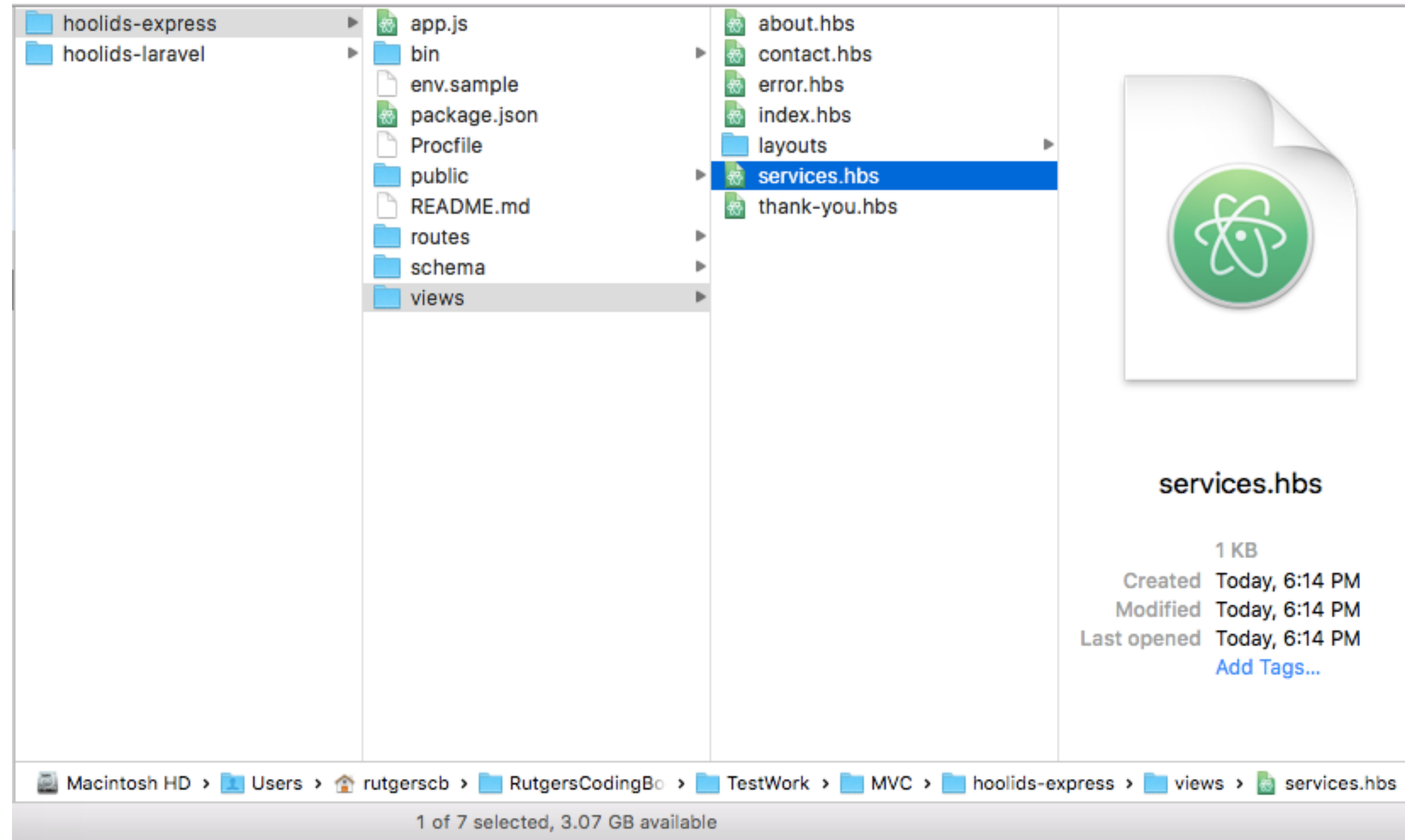
# What Is MVC?



# What Is MVC? Express Structure

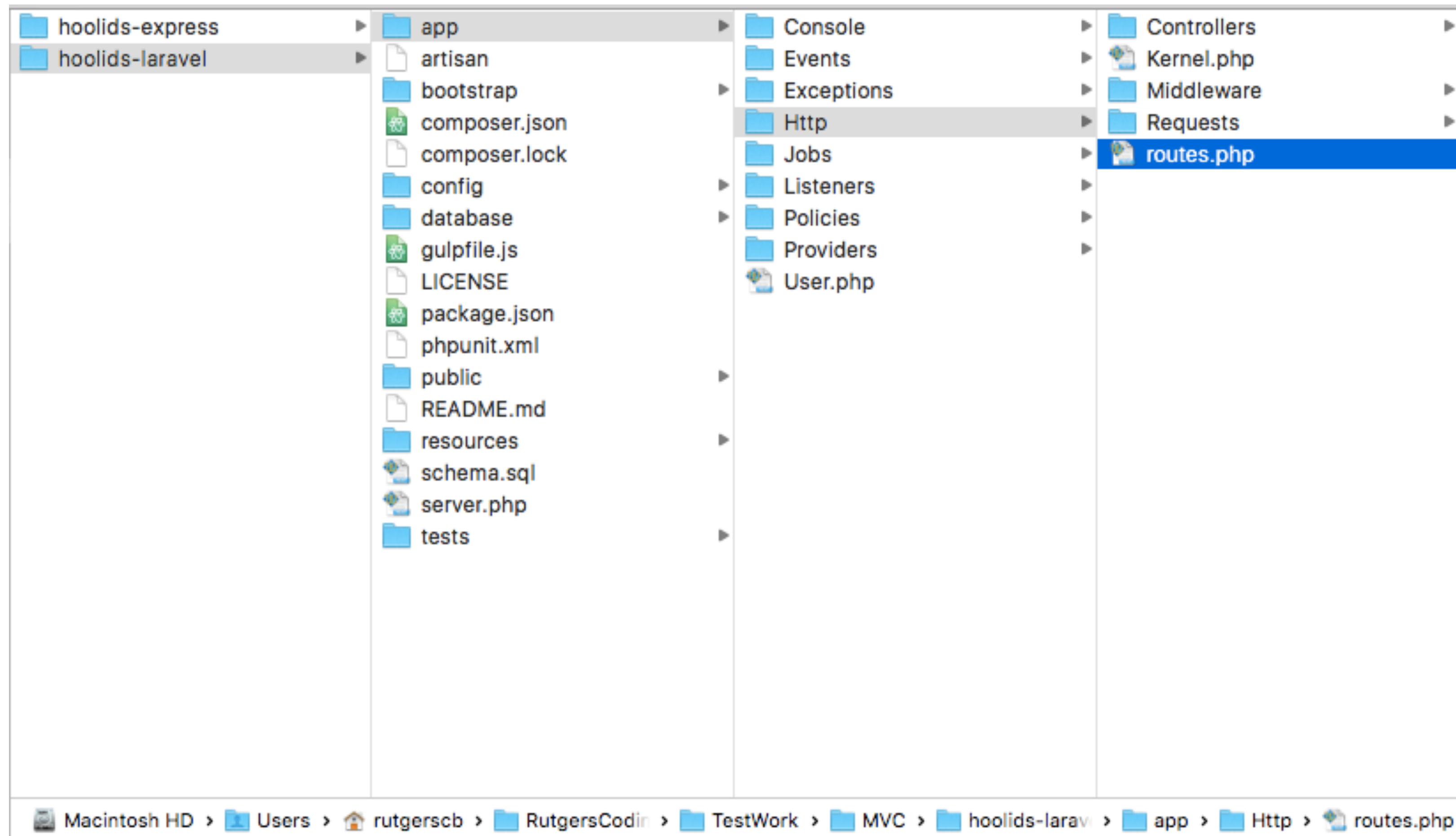


# What Is MVC? Express Structure



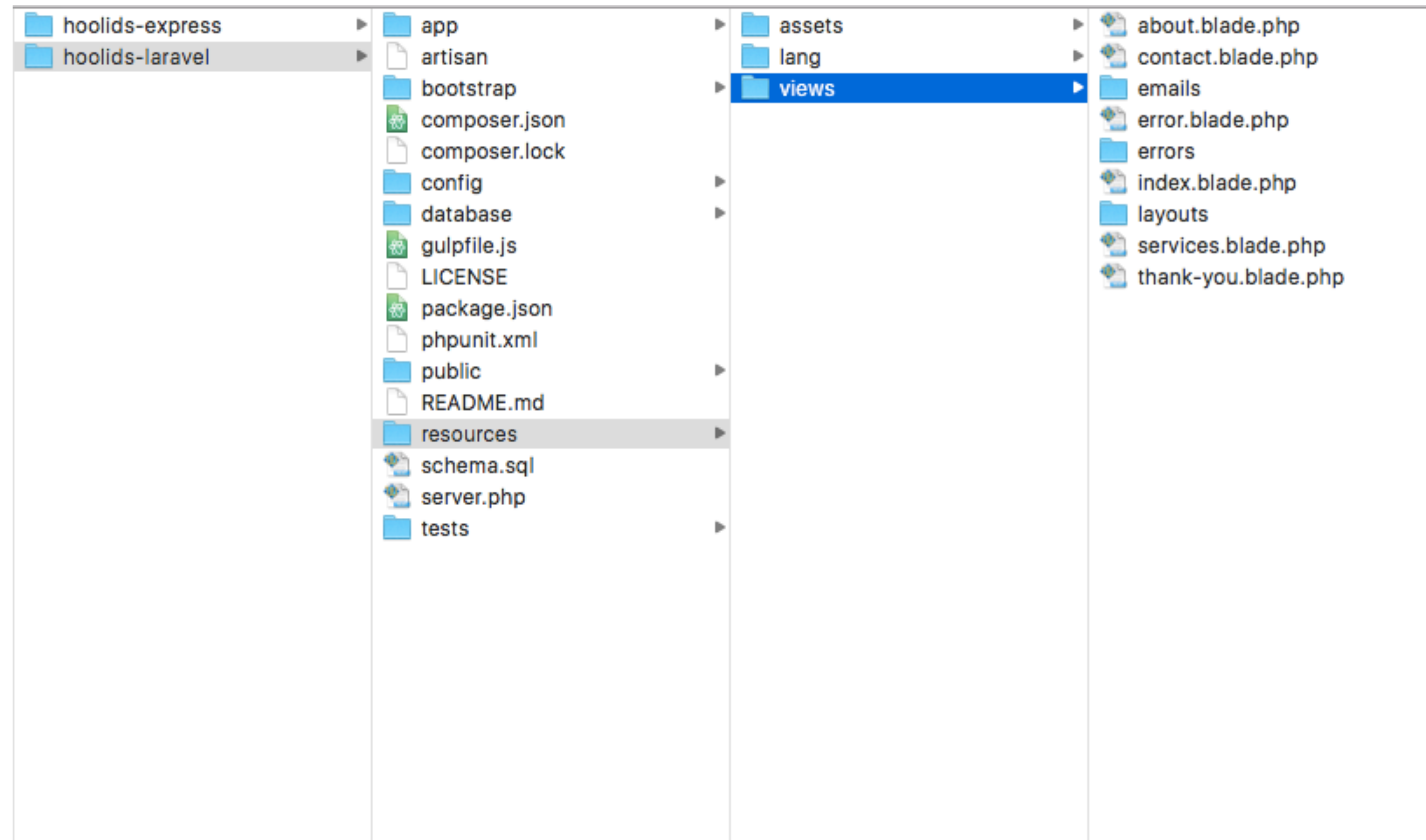


# What Is MVC? Larval Structure





# What Is MVC? Larval Structure



# Podcast of the Week



## Shop Talk Show

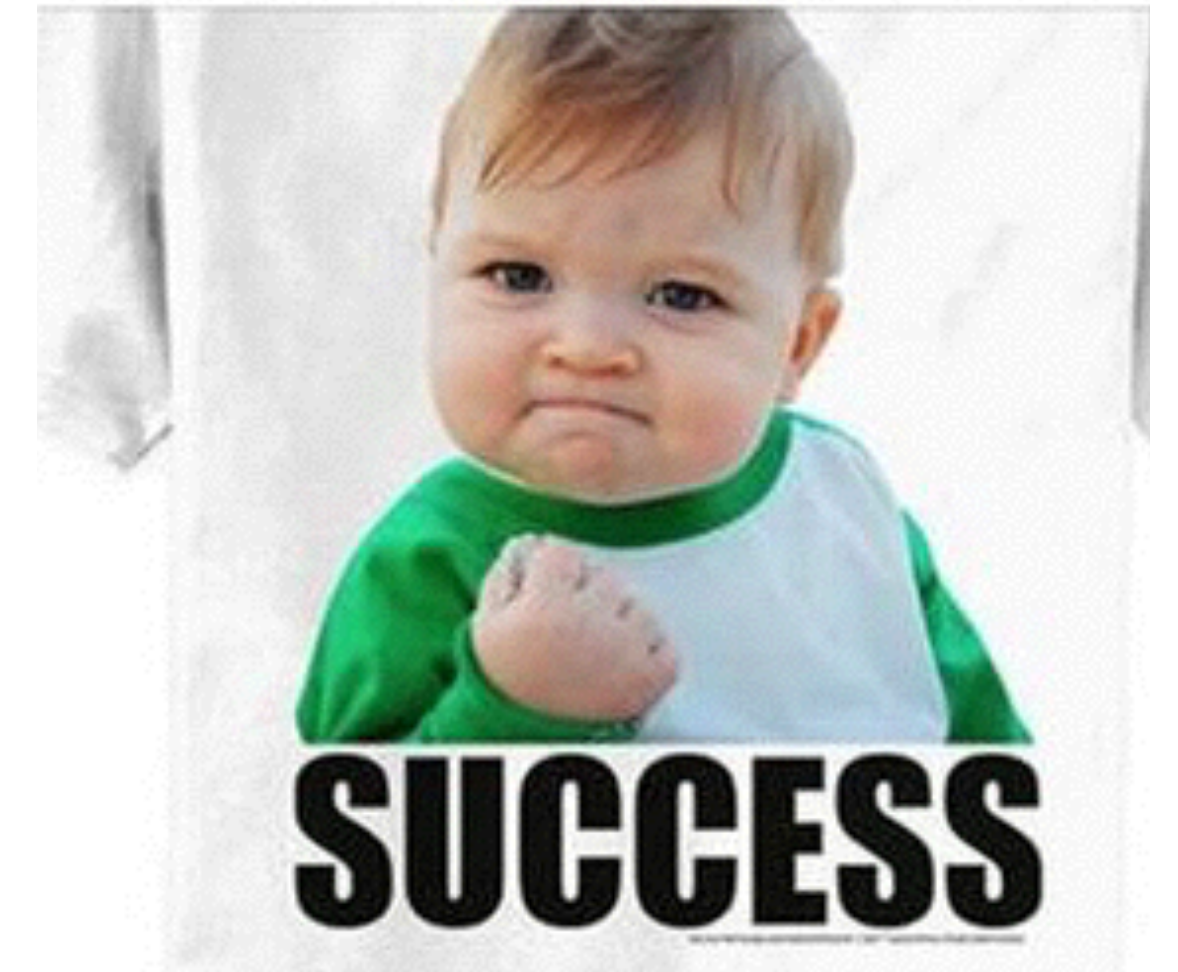
An internet radio show about the internet starring Dave Rupert and Chris Coyier.

<http://shoptalkshow.com/>



# Coding Tips

- Create a Real Programming Environment
- Make Programs From Scratch
- Start Small
- Write Lots of Code
- Ask for Help
- Ask for Help the Right Way



[http://www.programmingforbeginnersbook.com/blog/when\\_you\\_know\\_the\\_basics\\_but\\_you\\_still\\_cant\\_code/](http://www.programmingforbeginnersbook.com/blog/when_you_know_the_basics_but_you_still_cant_code/)