Web App Structure





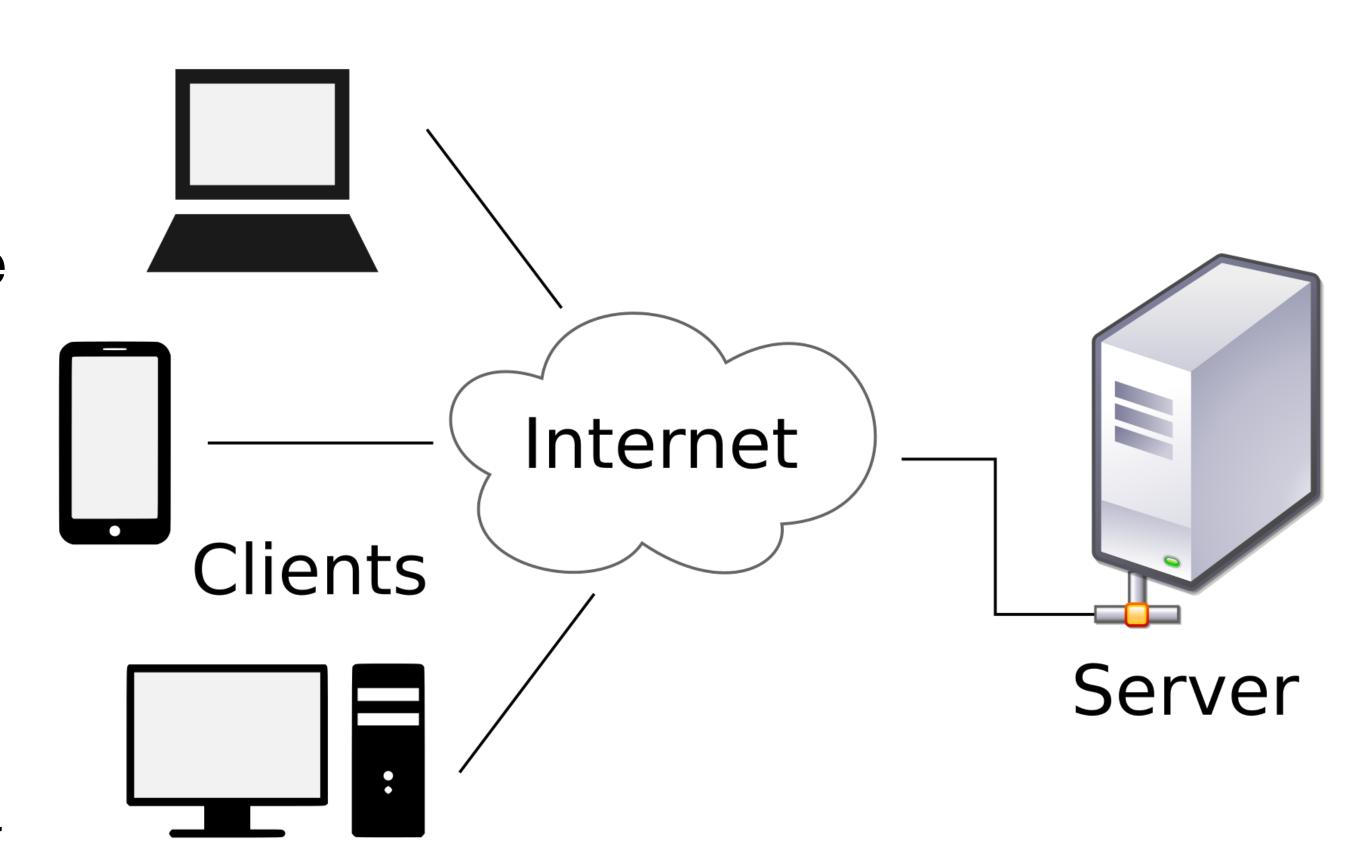




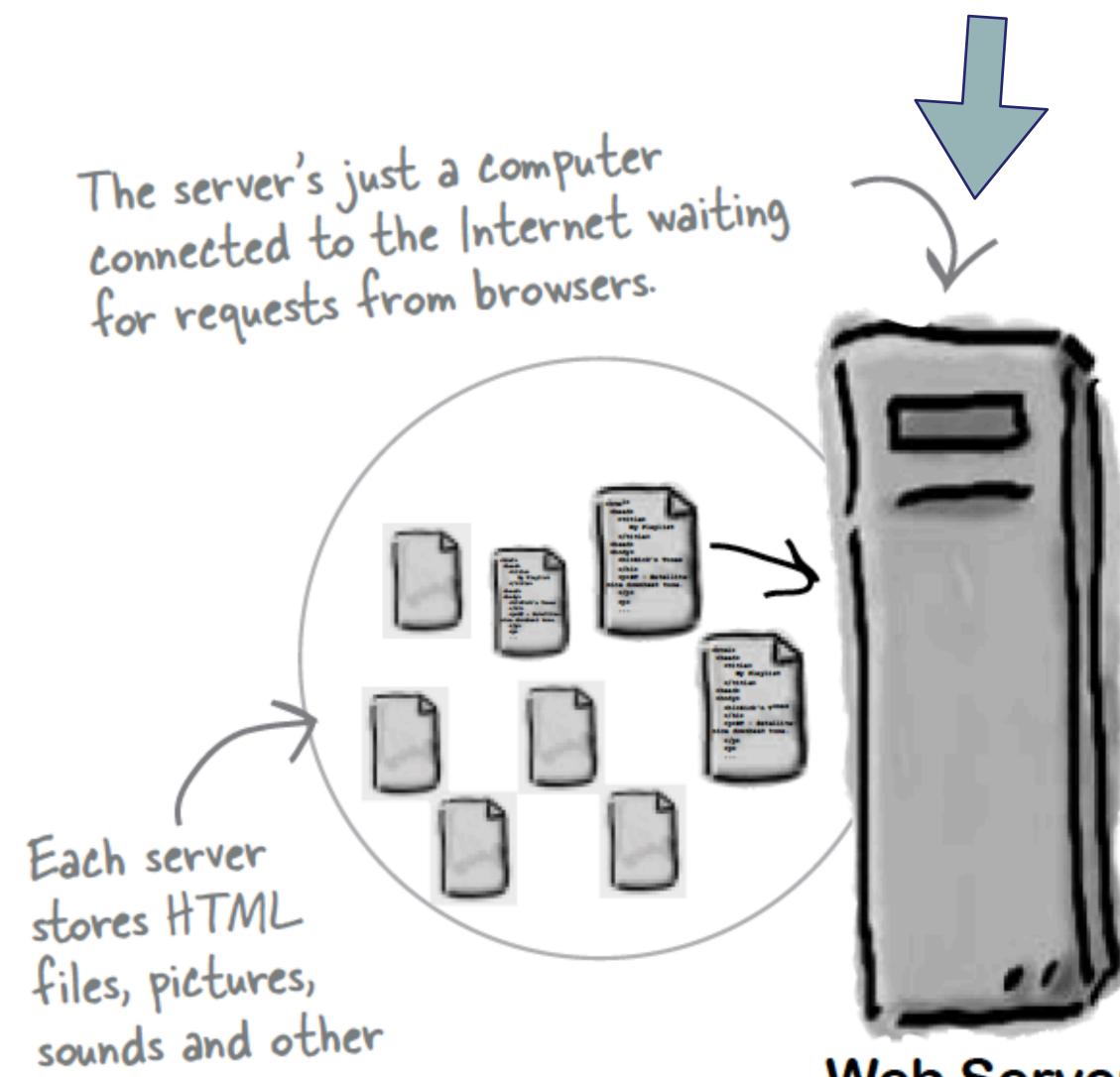
structure · front-end · backend · router · model · view · controller

Clients and Servers

- Client/Server Computing:
 - The interaction between two programs when they communicate across a network.
 - A program at one site sends a request to a program at another site and awaits a response.
 - The requesting program is called a client; the program satisfying the request is called the server.



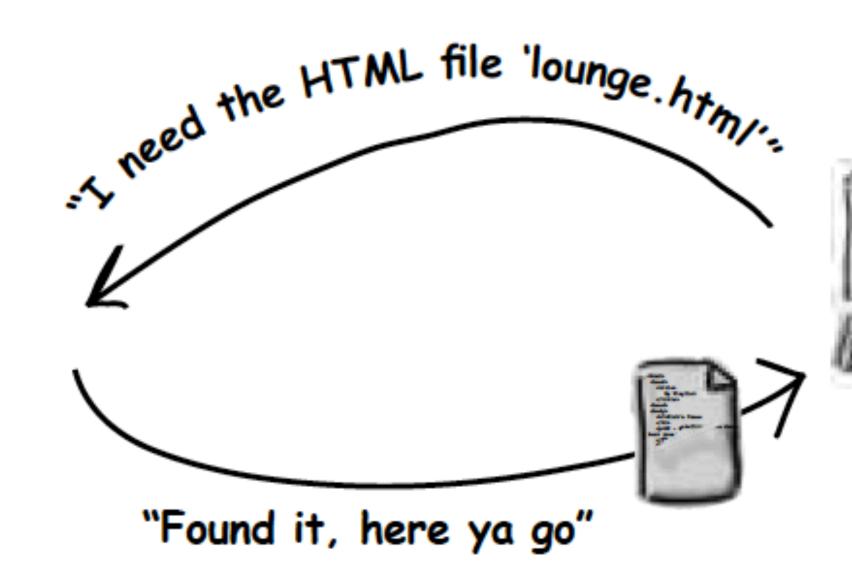
Role of Server



file types.

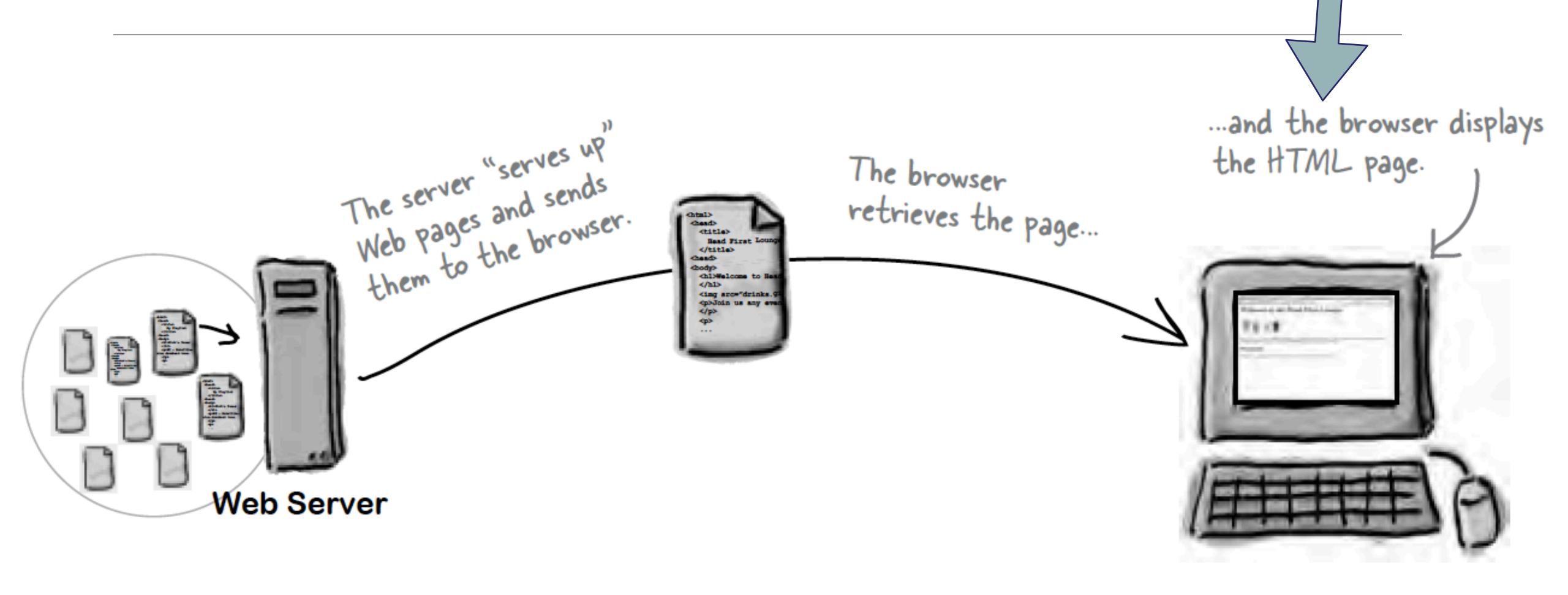
Web Server

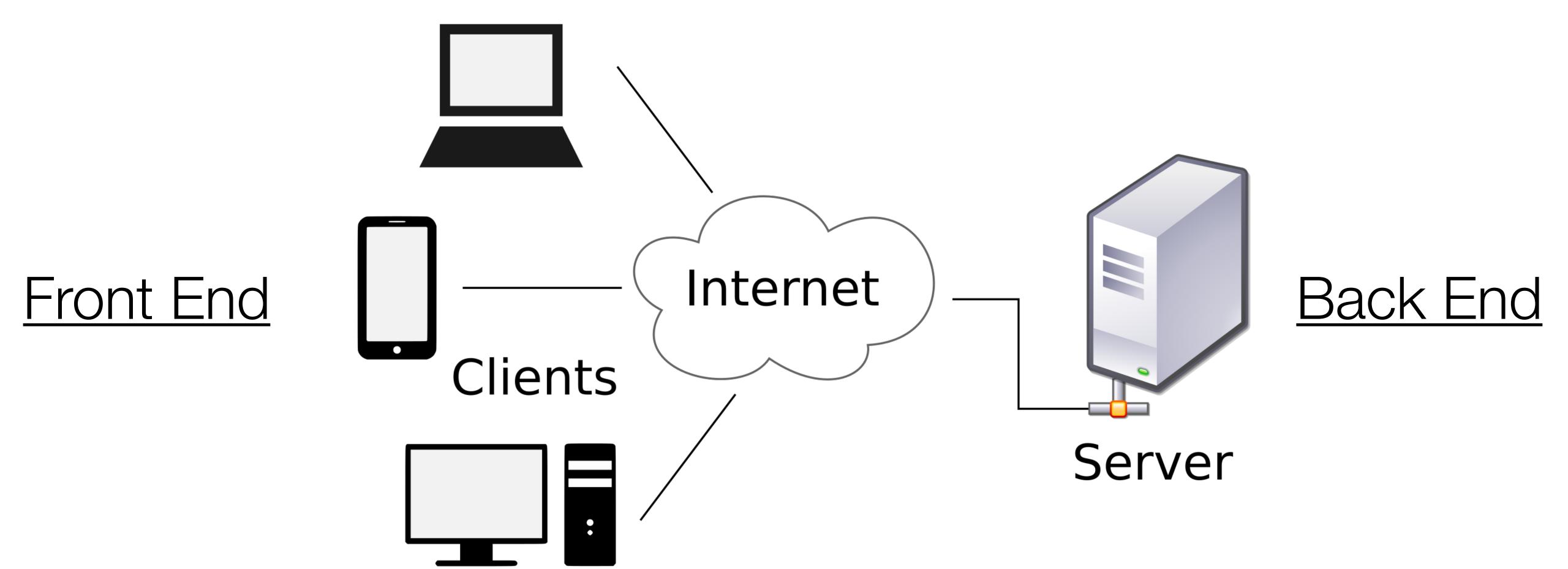
Browsers make requests for HTML Pages or other resources, like images.



...and if the server can locate the resource, it sends it to the browser.

Role of Client



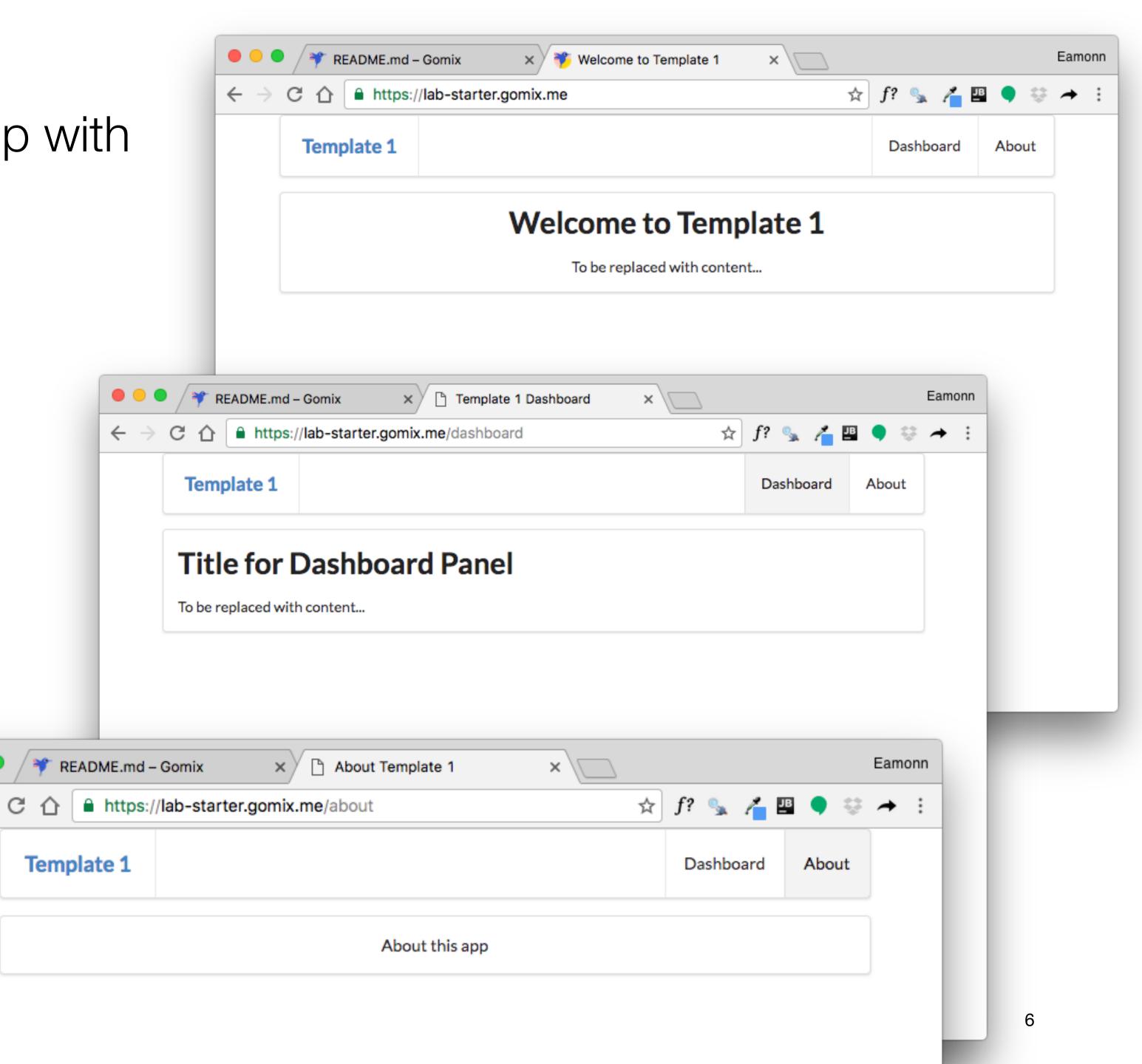


 Consider a starter app with a menu + 3 'Views':

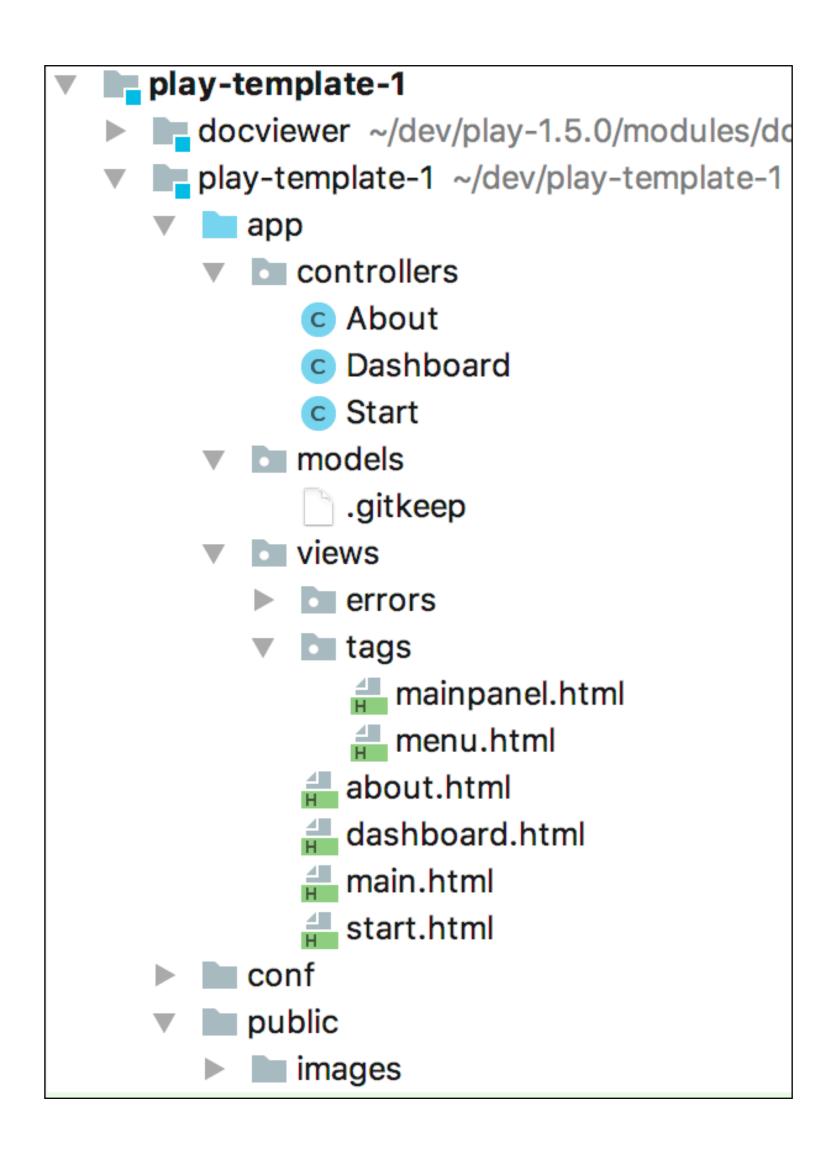
Start

Dashboard

About



<u>Application Structure - Intellij Idea Java Project</u>



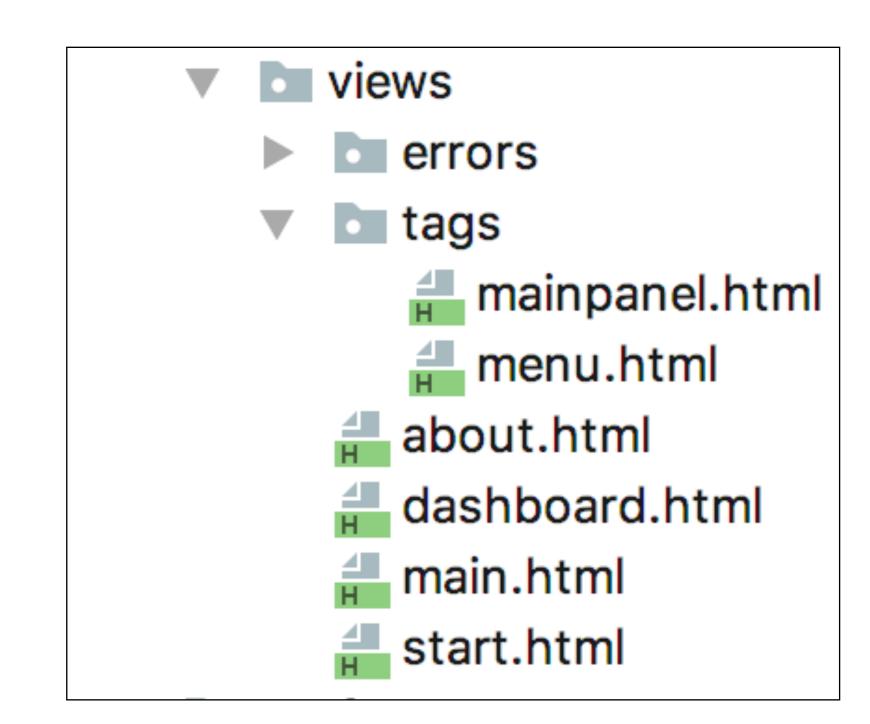
- App implements Routes + Model/View/ Controller Architecture
- Back-end + Front-end collaborate to support structured, predictable application workflow

Front-end

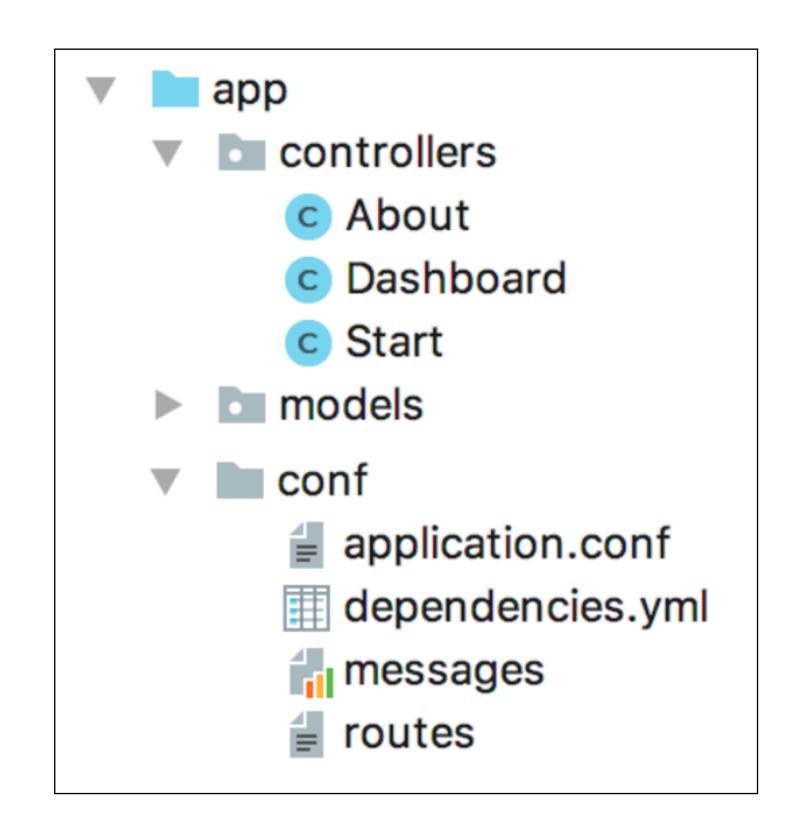




- All written in HTML + templating
- Templating language supports:
 - Layouts
 - Partials
 - Views
- These are similar to EJS equivalents



Back-end



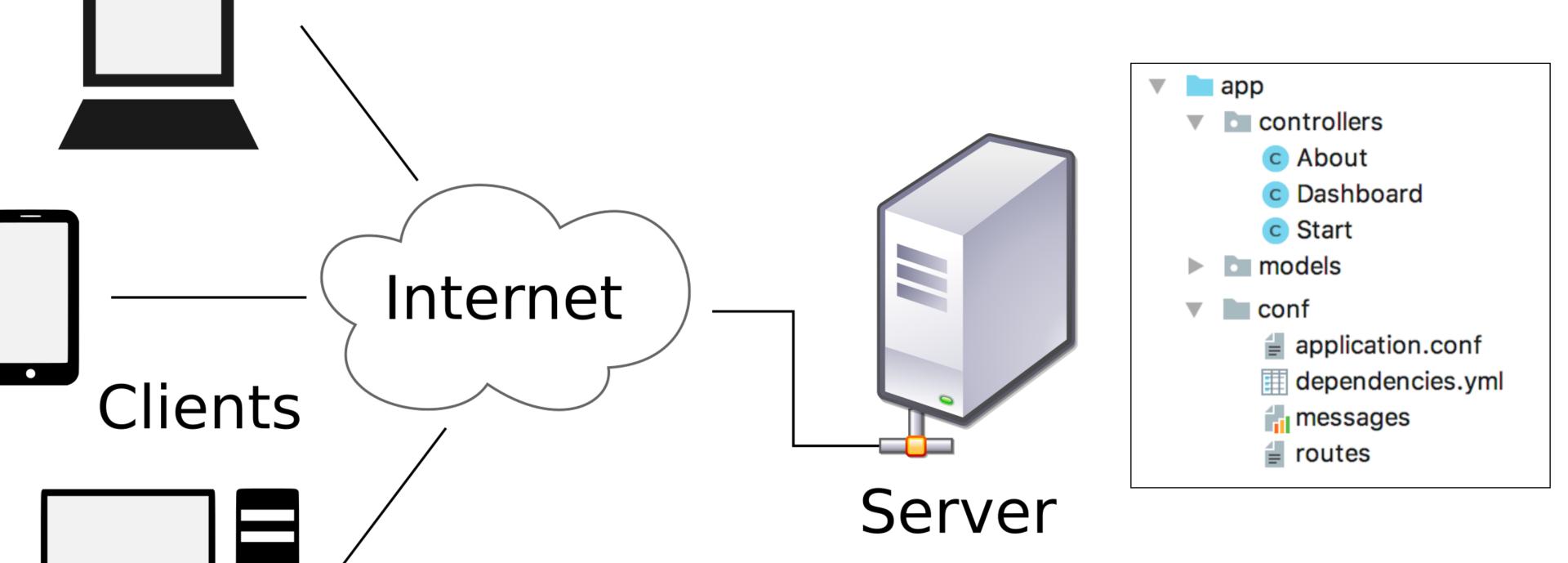




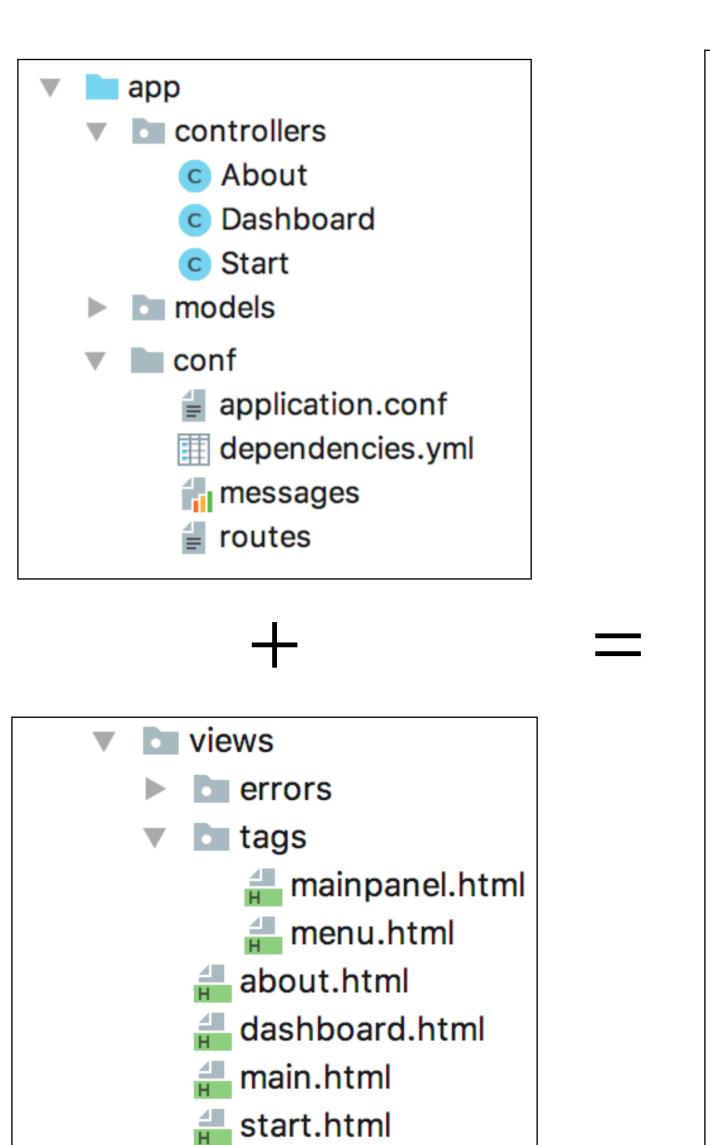


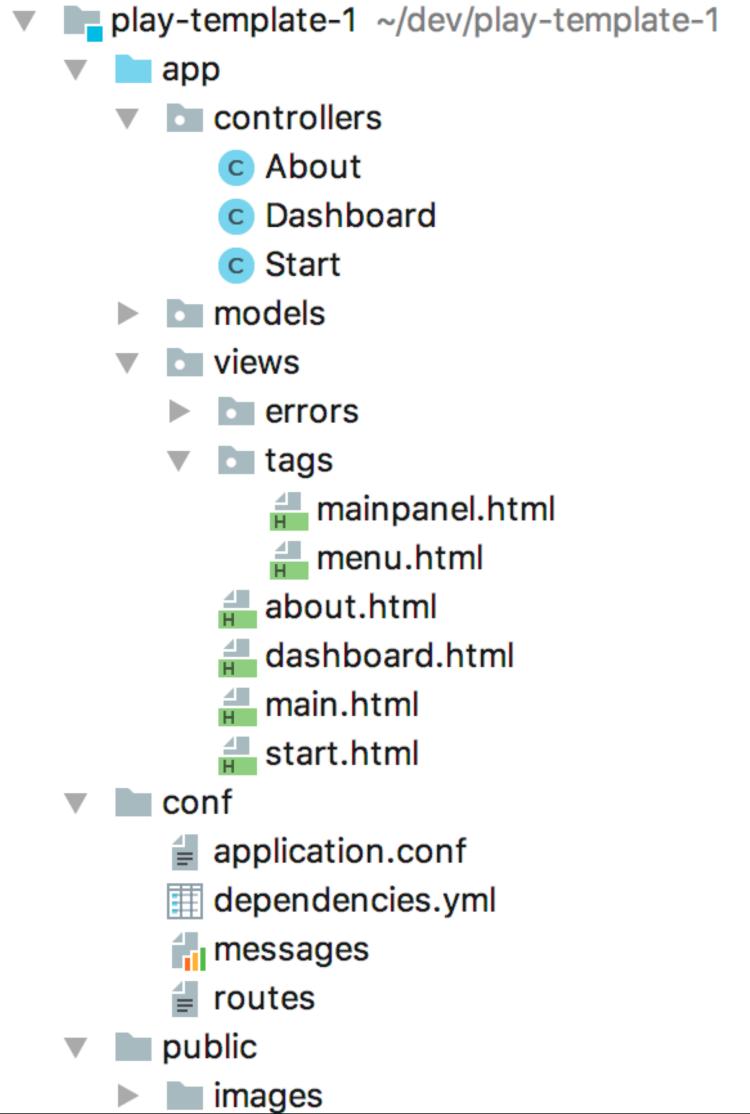
- Consists of:
 - Server main entry point
 - Routes supported urls
 - Controllers objects to handle the routes
 - Config system wide config of application
- Will include Models later...





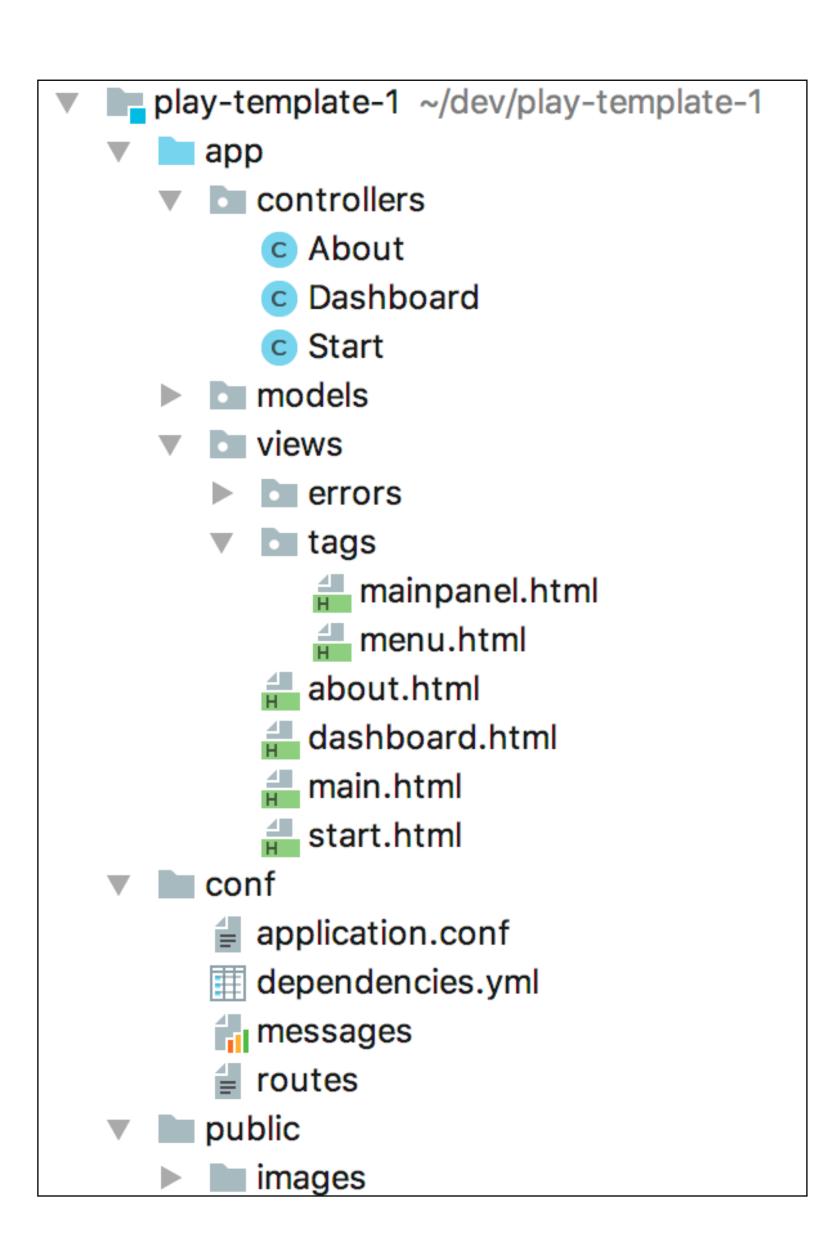
Back-end + Front-end





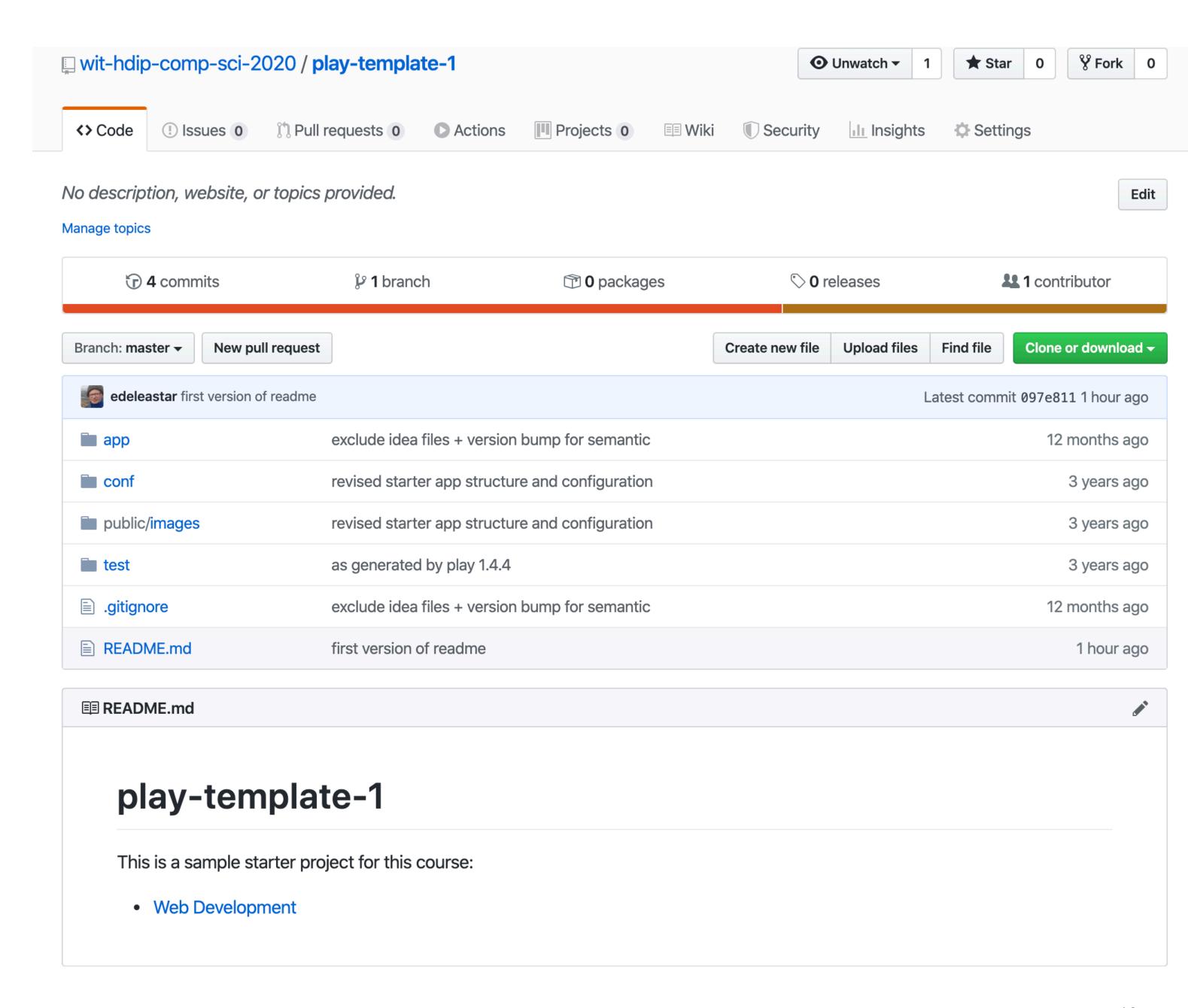
Back-end + Front-end

- To build a new app:
 - Extend, modify, replace and create new routes
 + controllers
 - Rewrite templates to support new features, data and user experience.



Starter App

- We will always start a new project by importing a template project from github.
- play-template-1 is a 'boilerplate' project providing foundation components for a starter application.
- Extend/repurpose this project to build interesting applications.



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