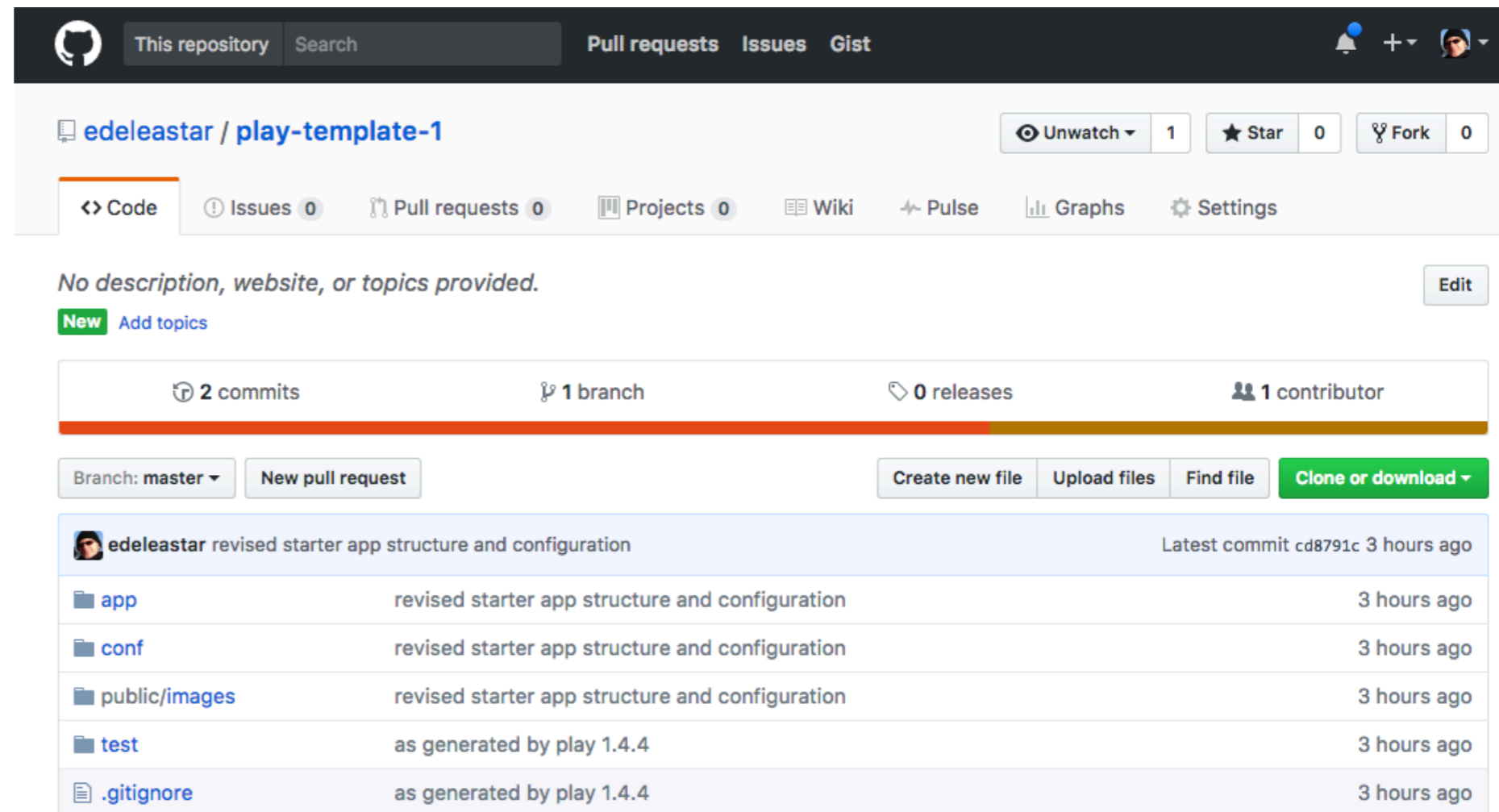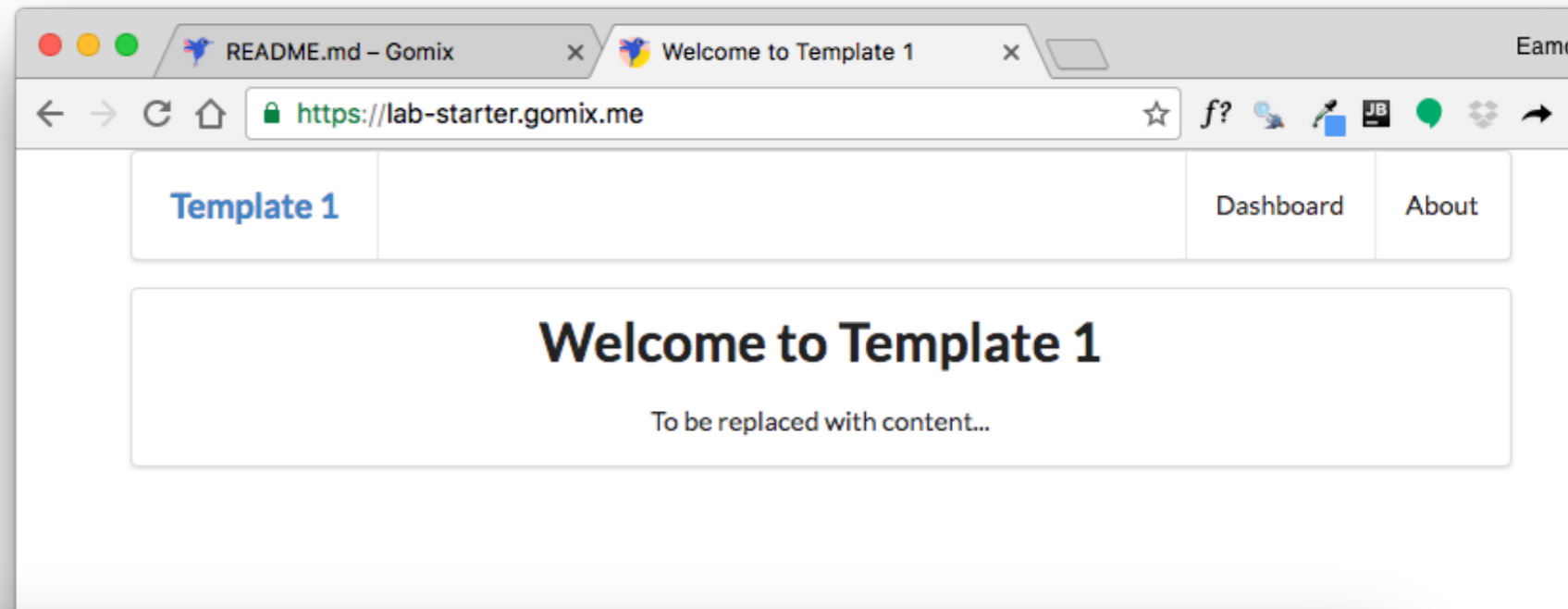# Web App Introduction

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.

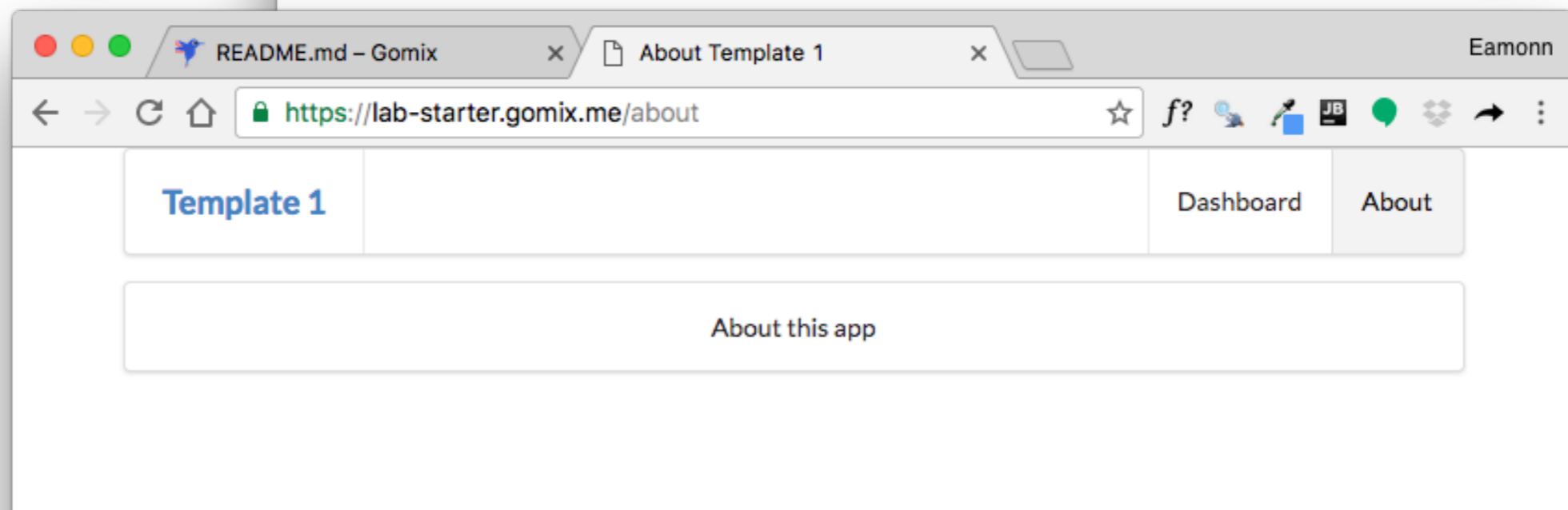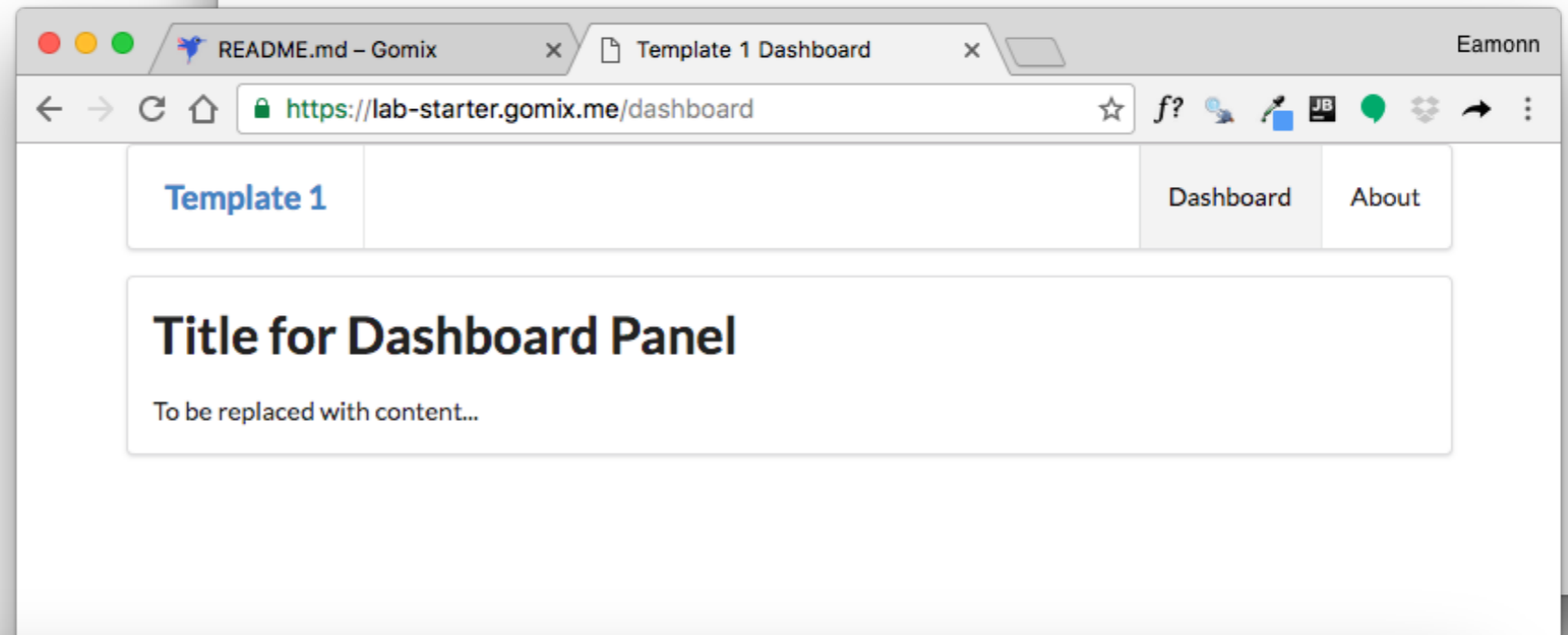- Extend/repurpose this project to build interesting applications.

- The starter app has a menu + 3 'Views':

  - Start

  - Dashboard

  - About

Application Structure
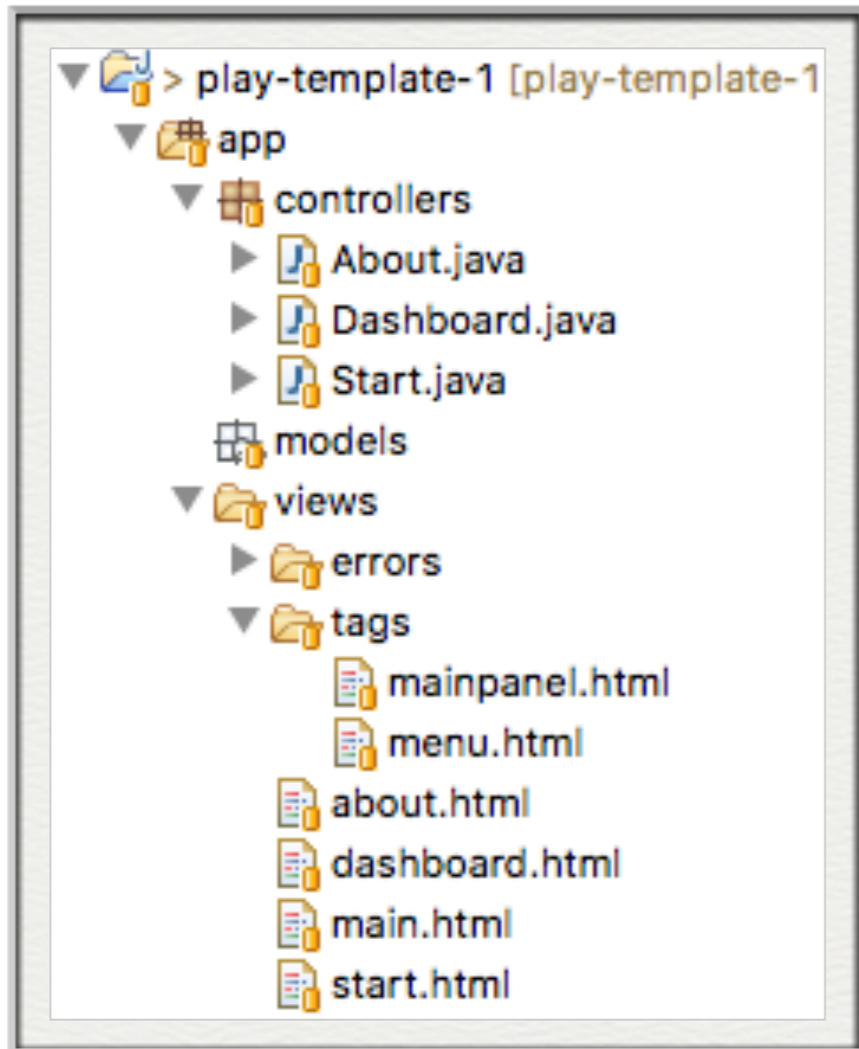
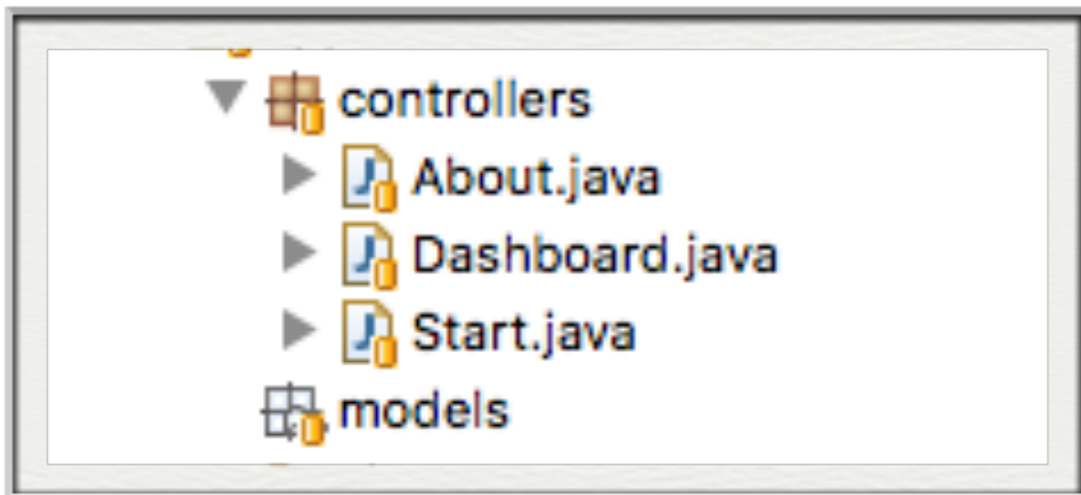- App implements Routes + Model/View/Controller Architecture

- Back-end + Front-end collaborate to support structured, predictable application workflow

Back-end

- All written in Java

- 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…

Front-end
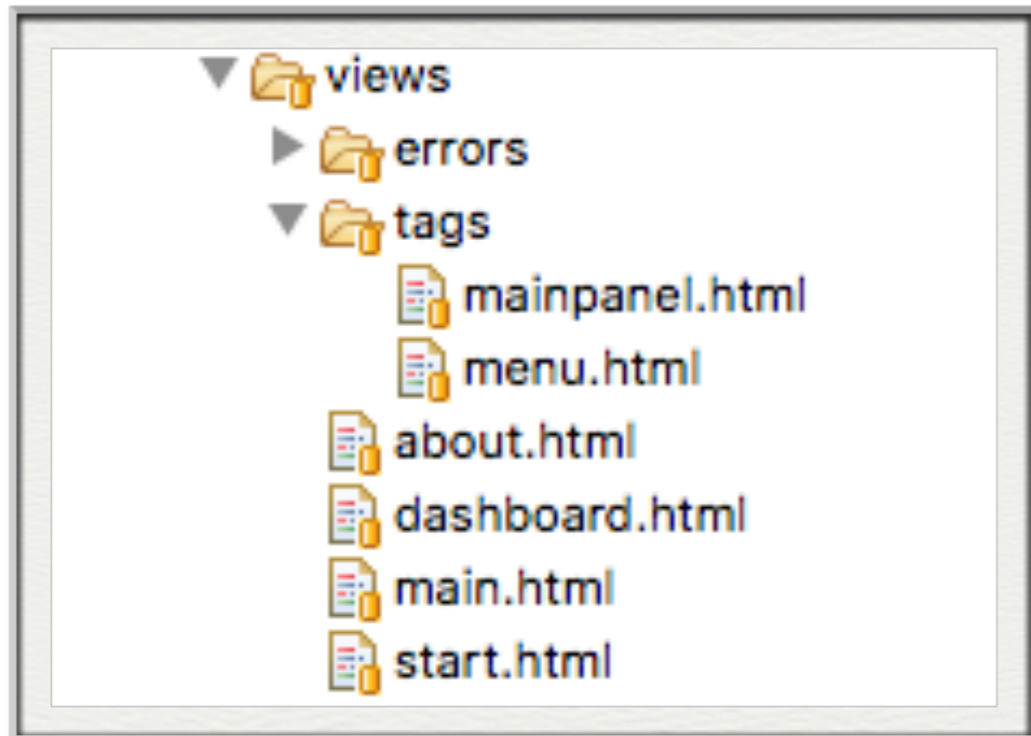
- All written in HTML + templating

- Templating language supports:

  - **Layouts**

  - **Partials**

  - **Views**

- These are similar to EJS equivalents

```
▼ 📁 views
  ▶ 📁 errors
  ▼ 📁 tags
       📄 mainpanel.html
       📄 menu.html
  📄 about.html
  📄 dashboard.html
  📄 main.html
  📄 start.html
```

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.
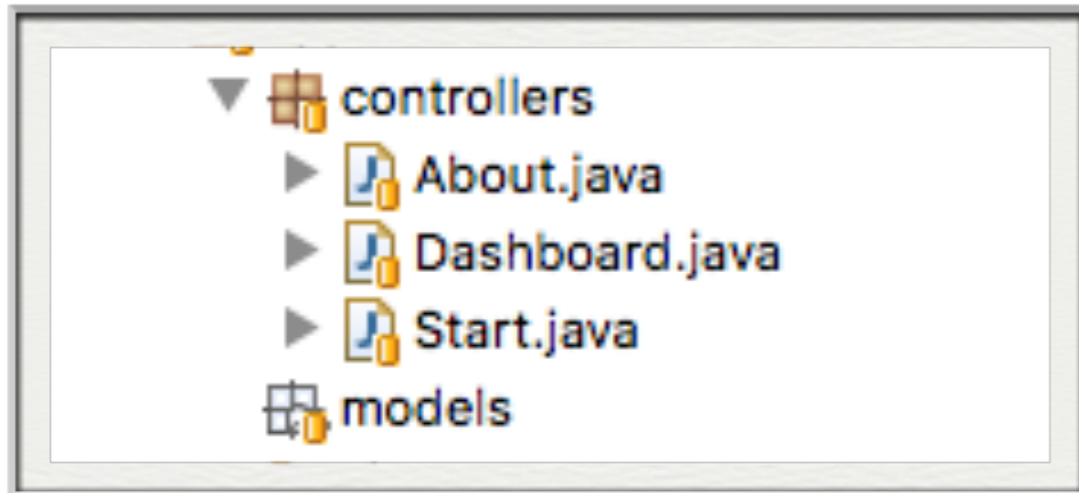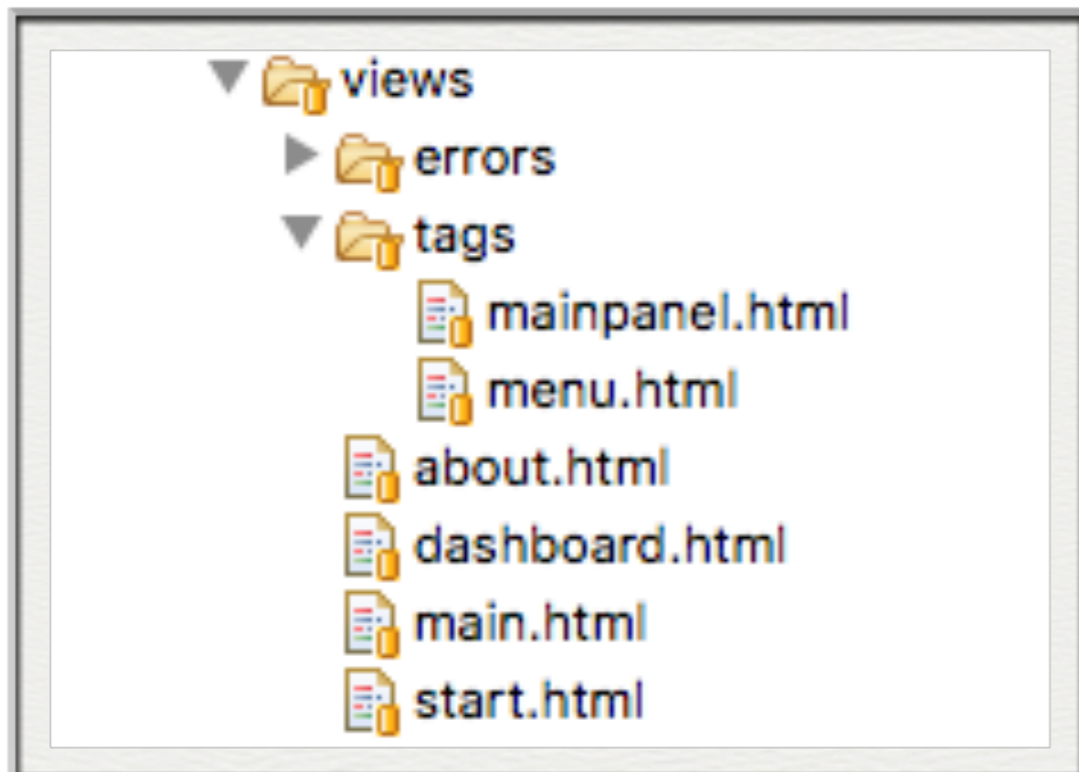


```
controllers
  ▶ About.java
  ▶ Dashboard.java
  ▶ Start.java
models
```

+

```
views
  ▶ errors
  ▼ tags
      mainpanel.html
      menu.html
  about.html
  dashboard.html
  main.html
  start.html
```

=

```
▼ play-template-1 [play-template-1
  ▼ app
      ▼ controllers
          ▶ About.java
          ▶ Dashboard.java
          ▶ Start.java
      models
      ▼ views
          ▶ errors
          ▼ tags
              mainpanel.html
              menu.html
          about.html
          dashboard.html
          main.html
          start.html
```