

Todo List



todolist application

Todo List		Dashboard	About
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Todo List

- Make tea
- Go for snooze
- Make more tea

Title

Title

Add Todo

routes

▼

app

▼

controllers

⦿

About

⦿

Dashboard

⦿

Start

▶

models

▼

views

▶

errors

▼

tags

📄

mainpanel.html

📄

menu.html

📄

about.html

📄

dashboard.html

📄

main.html

📄

start.html

▼

conf

📄

application.conf

📄

dependencies.yml

📄

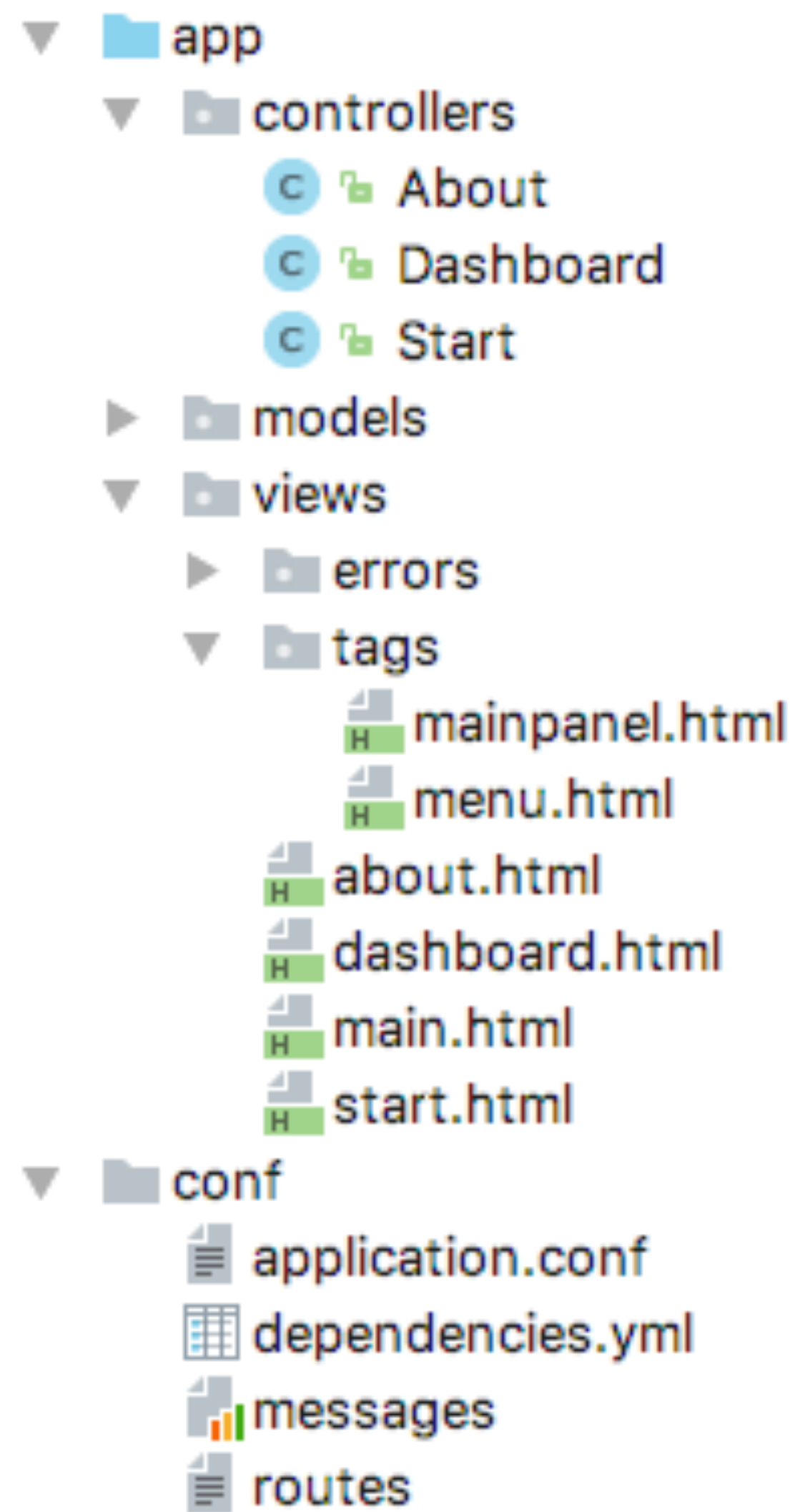
messages

📄

routes

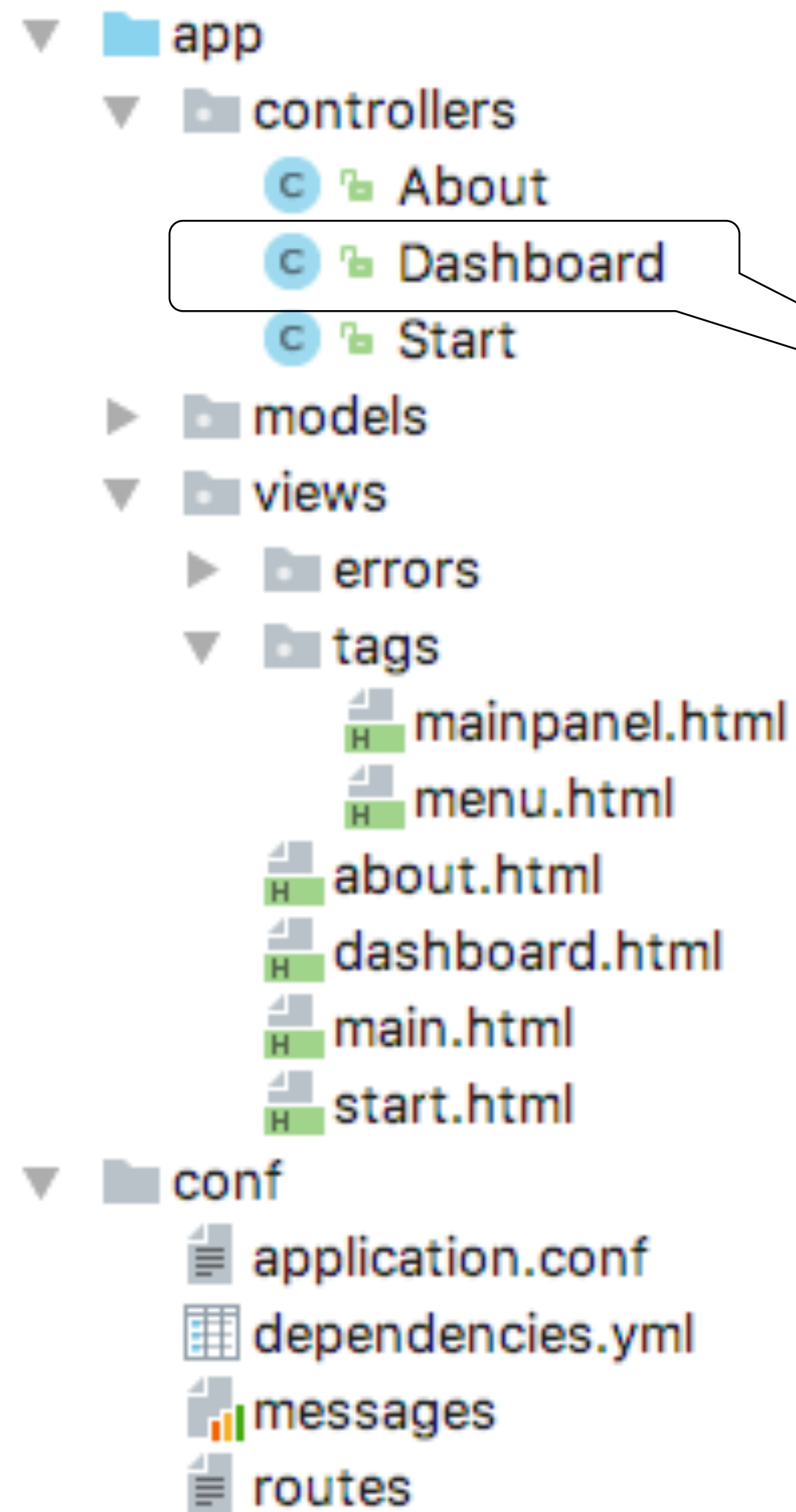
GET	/	Start.index
GET	/dashboard	Dashboard.index
GET	/about	About.index

Dasbboad routes



GET	/dashboard	Dashboard.index
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Dashboard Controller



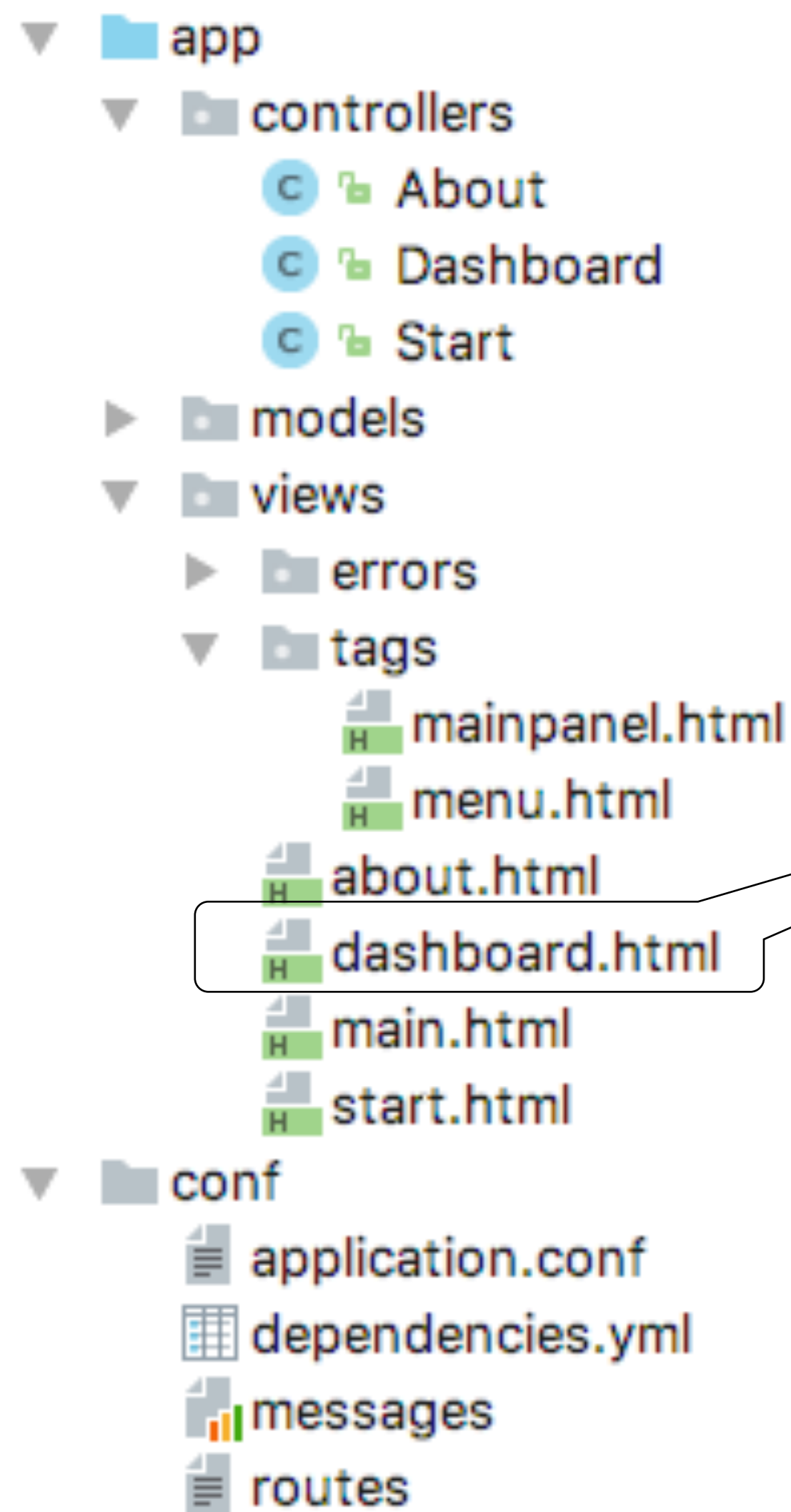
GET	/dashboard	Dashboard.index
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```
package controllers;

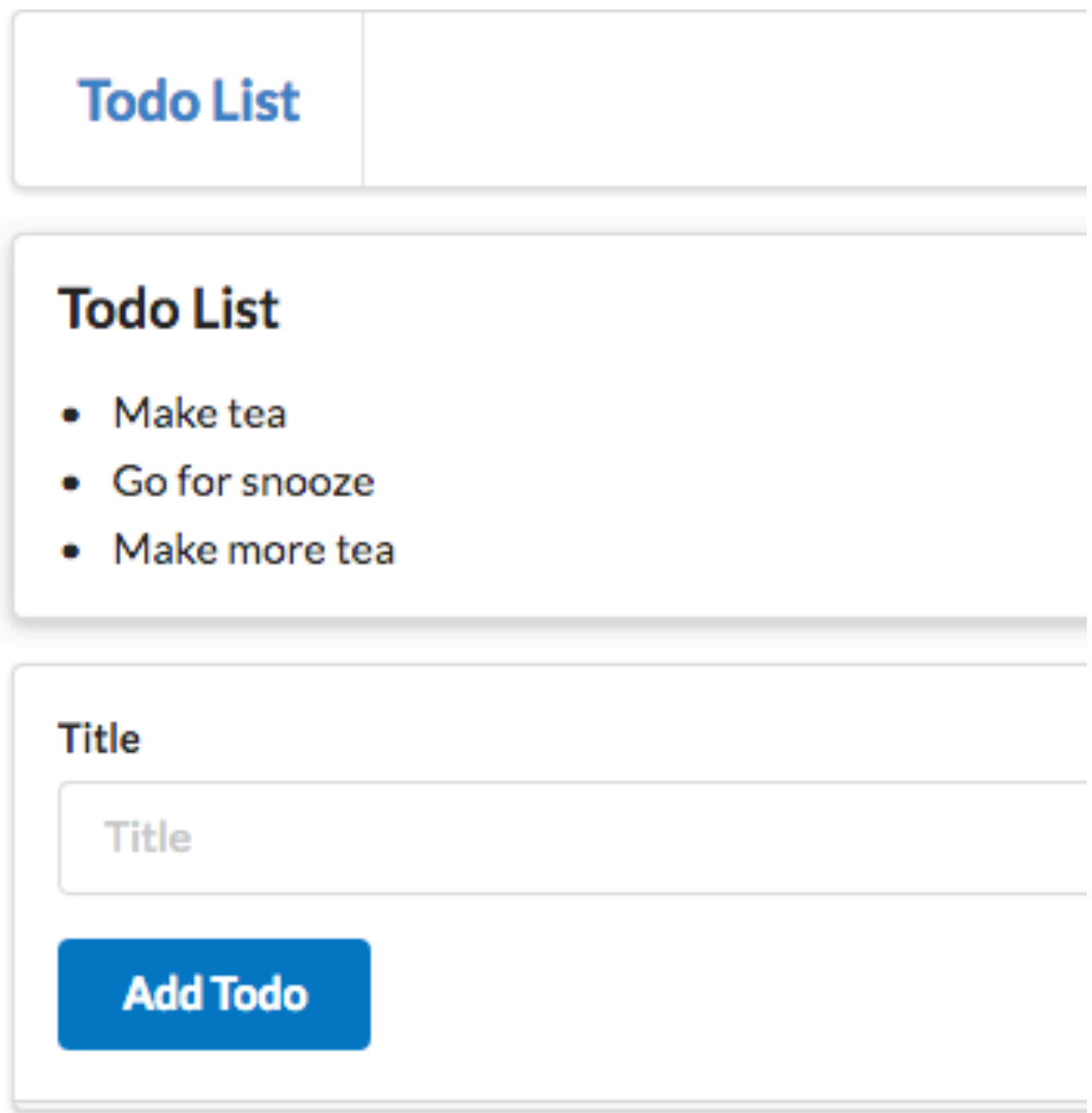
import play.Logger;
import play.mvc.Controller;

public class Dashboard extends Controller
{
    public static void index() {
        Logger.info("Rendering Dashboard");
        render ("dashboard.html");
    }
}
```

Dashboard View



```
#{extends 'main.html' /}  
#{set title:'Dashboard' /}  
  
#{menu id:"dashboard"/}  
  
<section class="ui raised segment">  
  <header class="ui header">  
    Todo List  
  </header>  
  <div class="ui bulleted list">  
    <div class="ui item"> Make tea</div>  
    <div class="ui item"> Go for snooze</div>  
    <div class="ui item"> Make more tea</div>  
  </div>  
</section>
```



“Static” Todo List Segment

Todo List

- Make tea
- Go for snooze
- Make more tea

```
...  
<section class="ui raised segment">  
  <header class="ui header">  
    Todo List  
  </header>  
  <div class="ui bulleted list">  
    <div class="ui item"> Make tea</div>  
    <div class="ui item"> Go for snooze</div>  
    <div class="ui item"> Make more tea</div>  
  </div>  
</section>  
...
```

Add Todo List Form

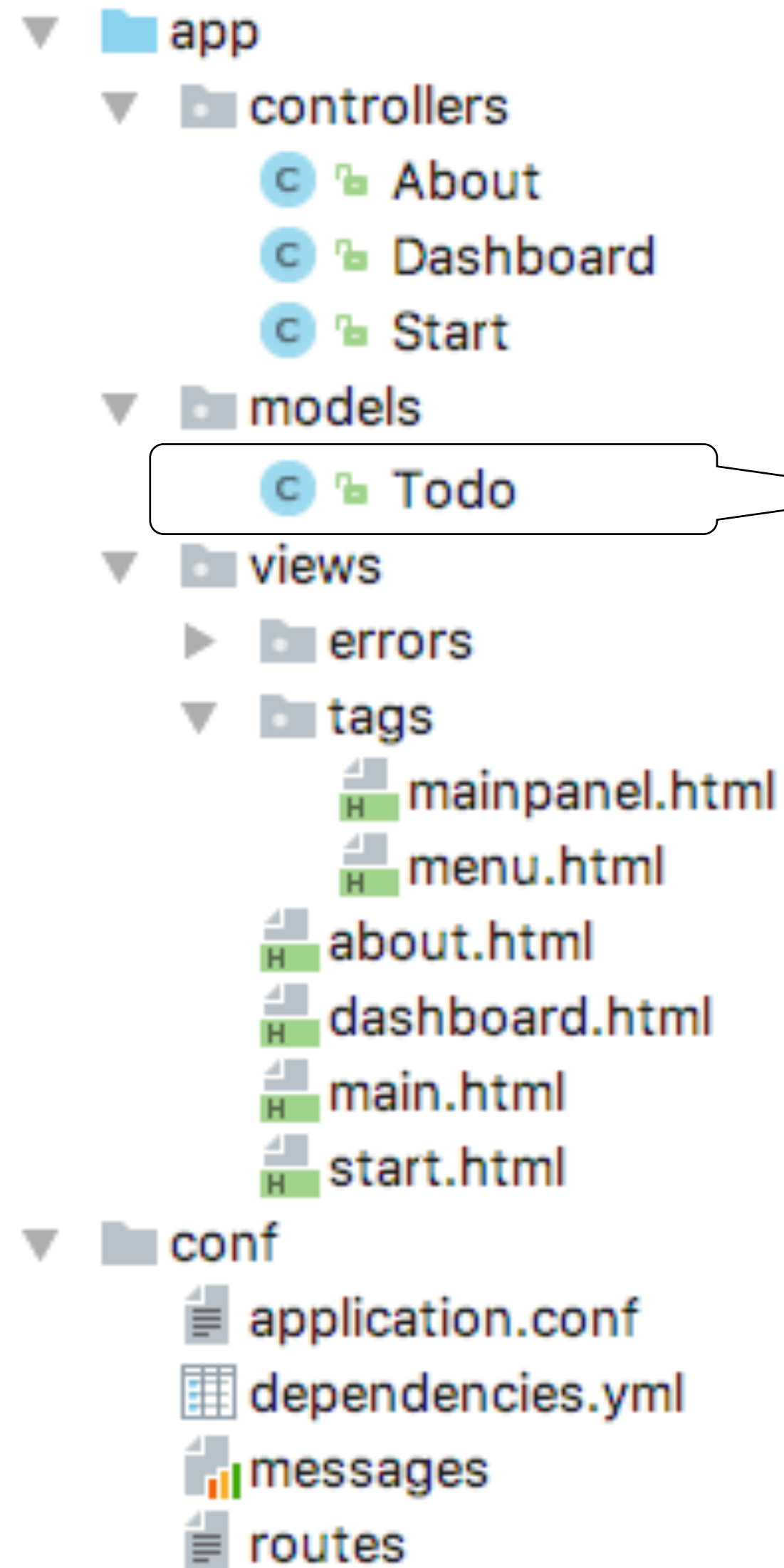
Title

Title

Add Todo

```
...  
<form class="ui stacked segment form" action="/dashboard/addtodo" method="POST">  
  <div class="field">  
    <label>Title</label>  
    <input placeholder="Title" type="text" name="title">  
  </div>  
  <button class="ui blue submit button">Add Todo</button>  
</form>
```


Todo Model



```
package models;

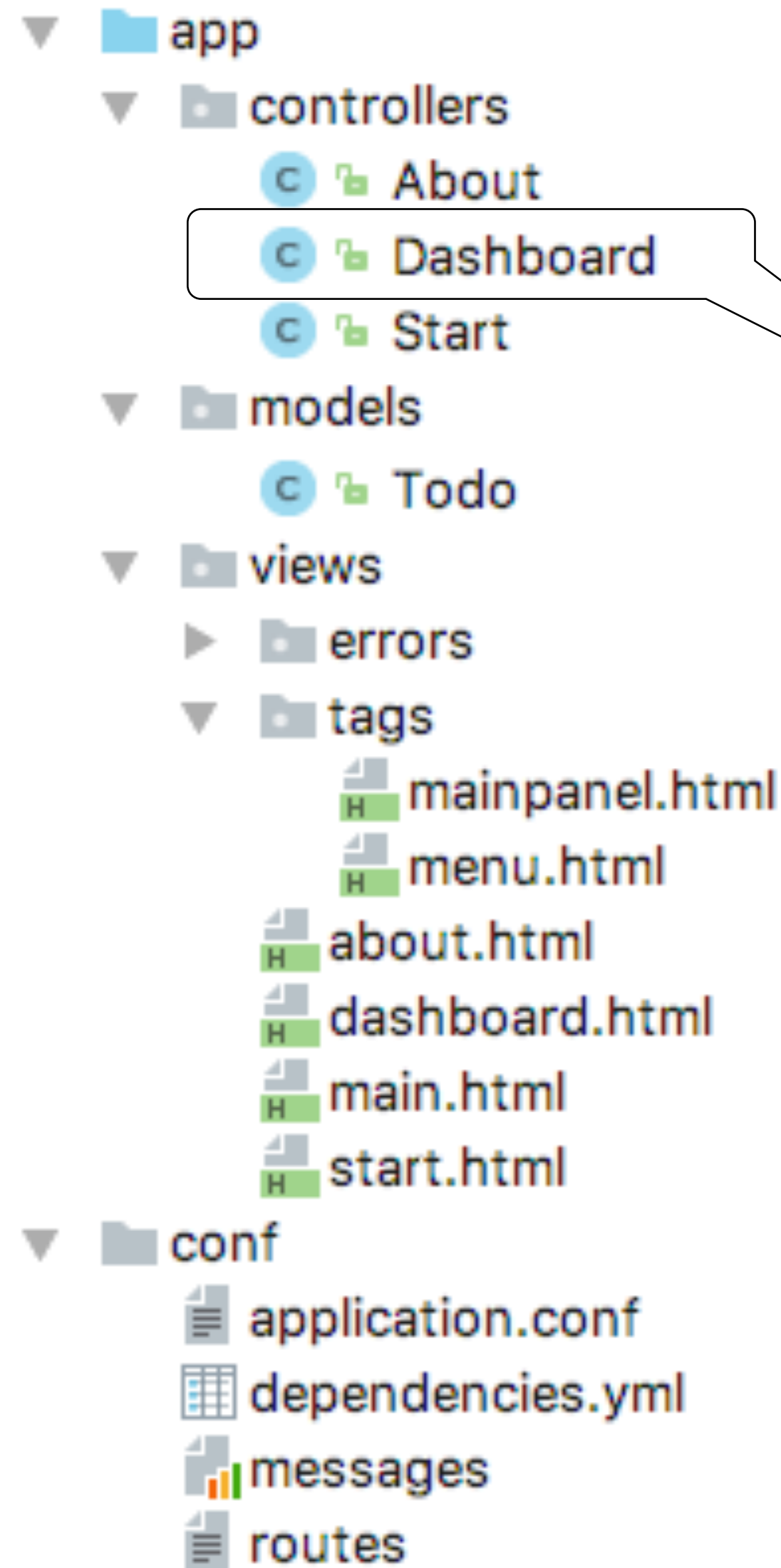
import play.db.jpa.Model;

import javax.persistence.Entity;

@Entity
public class Todo extends Model
{
    public String title;

    public Todo(String title)
    {
        this.title = title;
    }
}
```

Revised Dashboard Controller



GET	/dashboard	Dashboard.index
POST	/dashboard/addtodo	Dashboard.addTodo

```
public class Dashboard extends Controller
{
    public static void index()
    {
        Logger.info("Rendering Dashboard");
        List<Todo> todolist = Todo.findAll();
        render("dashboard.html", todolist);
    }

    public static void addTodo(String title)
    {
        Todo todo = new Todo(title);
        todo.save();
        Logger.info("Addint Todo" + title);
        redirect("/dashboard");
    }
}
```

Dashboard Controller - List Todos

GET

/dashboard

Dashboard.index

```
public class Dashboard extends Controller
{
  public static void index()
  {
    Logger.info("Rendering Dashboard");
    List<Todo> todolist = Todo.findAll();
    render("dashboard.html", todolist);
  }
  ...
}
```

```
...
<section class="ui raised segment">
  <header class="ui header">
    Todo List
  </header>
  <div class="ui bulleted list">
    #{list items:todolist, as:'todo'}
      <div class="ui item"> ${todo.title} </div>
    #{/list}
  </div>
</section>
...
```

Todo List


- Make tea
- Go for snooze
- Make more tea

“Dynamic” Todo List Segment

Todo List

- Make tea
- Go for snooze
- Make more tea

```
List<Todo> todolist = Todo.findAll();  
render("dashboard.html", todolist);
```



```
...  
<section class="ui raised segment">  
  <header class="ui header">  
    Todo List  
  </header>  
  <div class="ui bulleted list">  
    #{list items:todolist, as:'todo'}  
    <div class="ui item"> ${todo.title} </div>  
  </div>  
</section>  
...
```

Dashboard Controller - Add Todos

Title

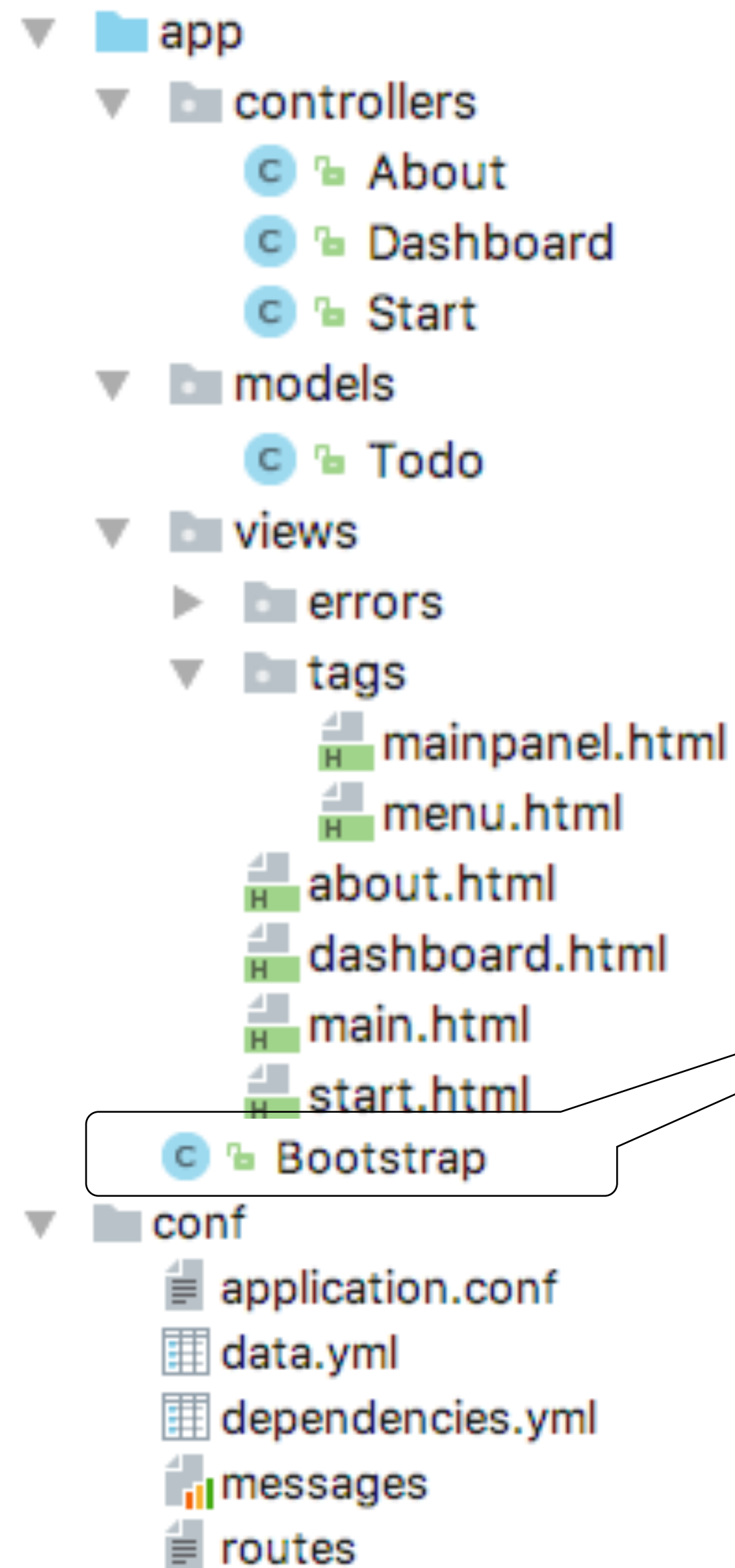
make tea

Add Todo

```
...  
<form class="ui stacked segment form" action="/dashboard/addtodo" method="POST">  
  <div class="field">  
    <label>Title</label>  
    <input placeholder="Title" type="text" name="title">  
  </div>  
  <button class="ui blue submit button">Add Todo</button>  
</form>
```

POST	/dashboard/addtodo	Dashboard.addToDo
------	--------------------	-------------------

```
public class Dashboard extends Controller  
{  
  ...  
  public static void addTodo(String title)  
  {  
    Todo todo = new Todo(title);  
    todo.save();  
    Logger.info("Addint Todo" + title);  
    redirect("/dashboard");  
  }  
}
```



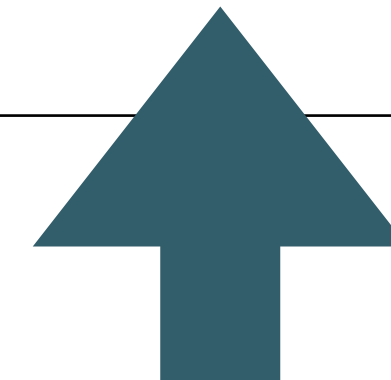
Bootstrap

```
import java.util.List;

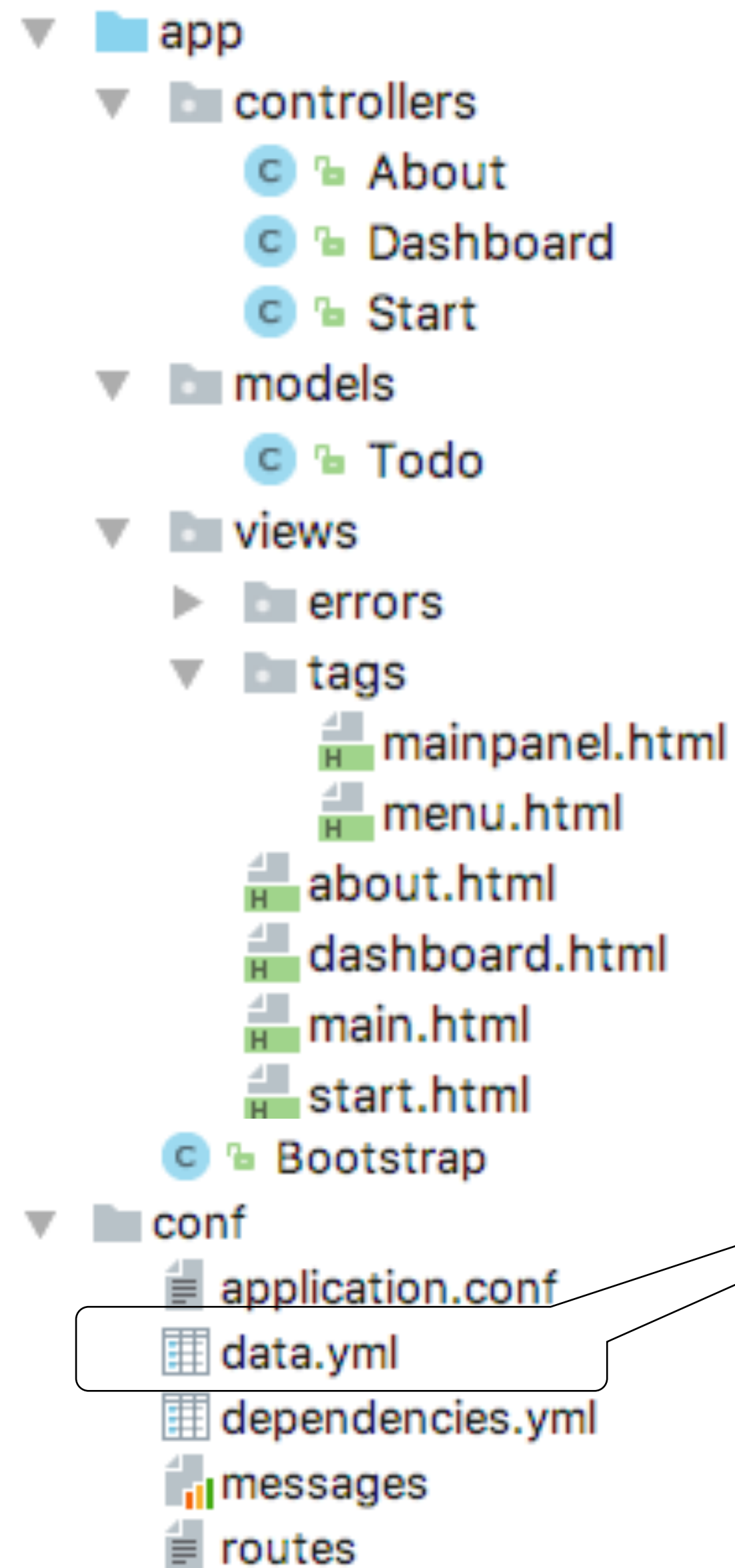
import play.*;
import play.jobs.*;
import play.test.*;

import models.*;

@OnApplicationStart
public class Bootstrap extends Job
{
    public void doJob()
    {
        Fixtures.loadModels("data.yml");
    }
}
```

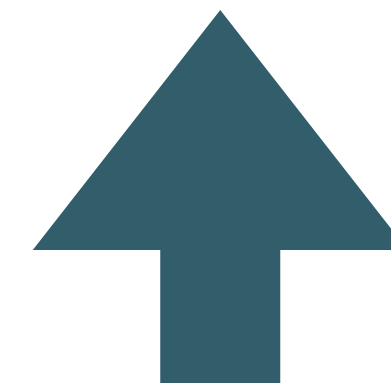


This method executes
every time application
starts/restarts



Bootstrap

```
Todo(t1):  
  title: Make tea  
  
Todo(t2):  
  title: Go for snooze  
  
Todo(t3):  
  title: Make more tea
```



Todo Objects loaded
by Bootstrap

<http://localhost:9000/@db>

Login

Saved Settings:

Generic H2 (Embedded)

Setting Name:

Generic H2 (Embedded)

Save

Remove

Driver Class:

org.h2.Driver

JDBC URL:

jdbc:h2:mem:play

User Name:


sa


Password:


Connect


Test Connection


localhost:9000/@db


 jdbc:h2:mem:play

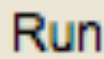
 todo

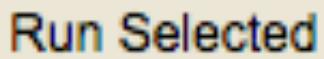
 information_schema

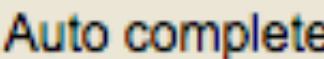
 Sequences

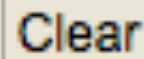
 Users

 H2 1.4.193 (2016-10-31)

 Run

 Run Selected

 Auto complete

 Clear

SQL statement:

SELECT * FROM TODO;

ID	TITLE
1	Make tea
2	Go for snooze
3	Make more tea

(3 rows, 5 ms)

Edit

 |  | ☒ Auto commit   | Max rows: 1000     |  | Auto complete  Auto select  

SELECT * FROM TODO;