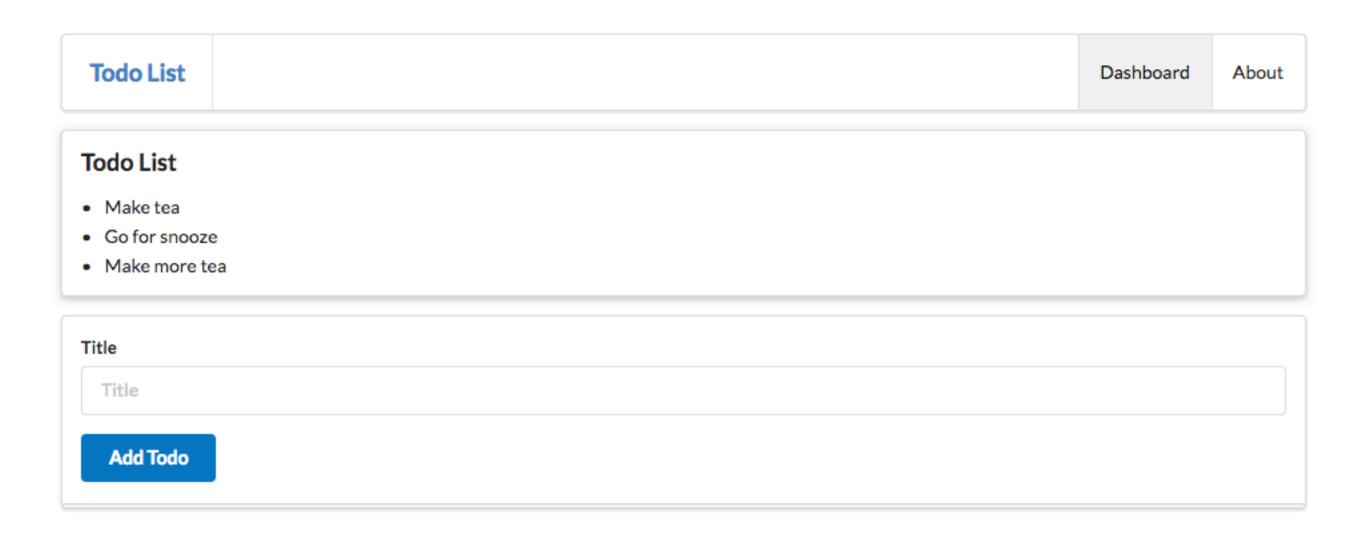
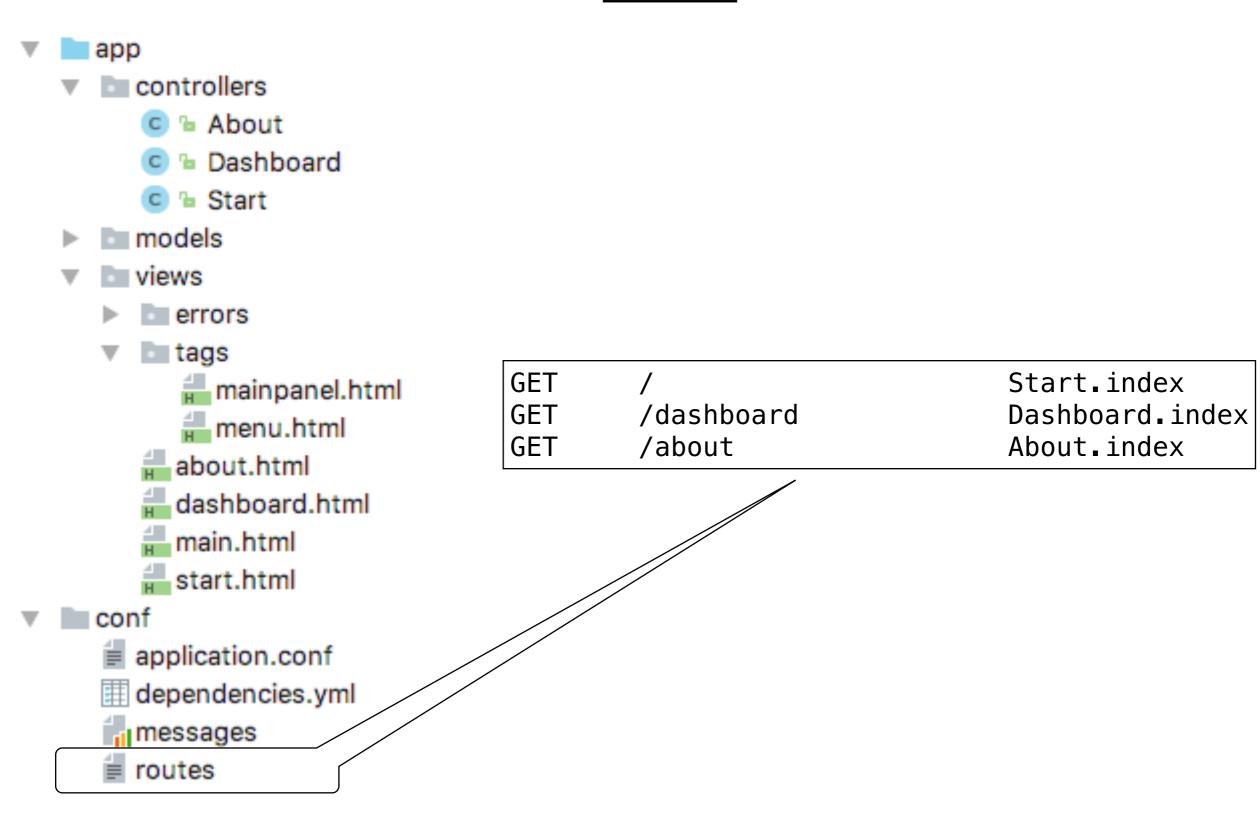
# Forms



# todolist application



#### routes



#### Dasbboad routes

```
app
  controllers
     😊 🖆 About
     😊 🖆 Dashboard
     Start
  models
  views
     errors
    tags
       mainpanel.html
       amenu.html
     about.html
     dashboard.html
     amain.html
     # start.html
conf
  application.conf
  dependencies.yml
  messages
  routes
```

GET /dashboard Dashboard.index

#### **Dashboard Controller**

```
app
 controllers
    🖸 🖆 About
    😊 🖆 Dashboard
    🖸 🖆 Start
 models
 views
   errors
   tags
      mainpanel.html
      amenu.html
   about.html
    ashboard.html
     main.html
     start.html
■ conf
 application.conf
 dependencies.yml
 messages
 routes
```

```
GET /dashboard Dashboard.index
```

```
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**

```
app
controllers
     About
     Dashboard
     Start
models
  views
   errors
   tags
      amainpanel.html
      menu.html
   about.html
     dashboard.html
     main.html
     start.html
conf
application.conf
```

dependencies.yml

messages

routes

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

#### Todo List

- Make tea
- Go for snooze
- Make more tea

# Title Title Add Todo

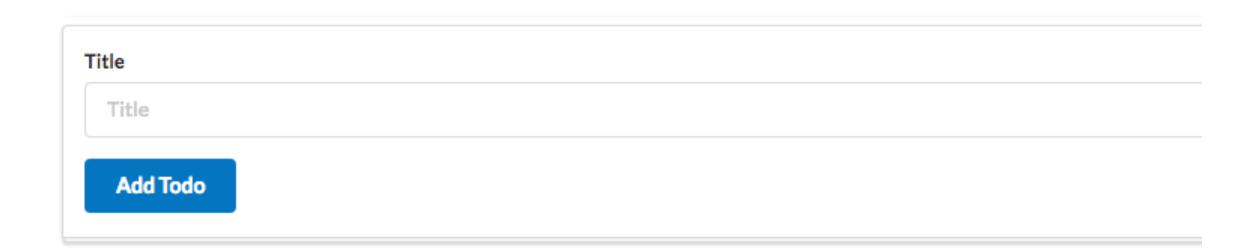
## "Static" Todo List Segment

#### **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>
        </div>
        </section>
...
```

#### Add Todo List Form

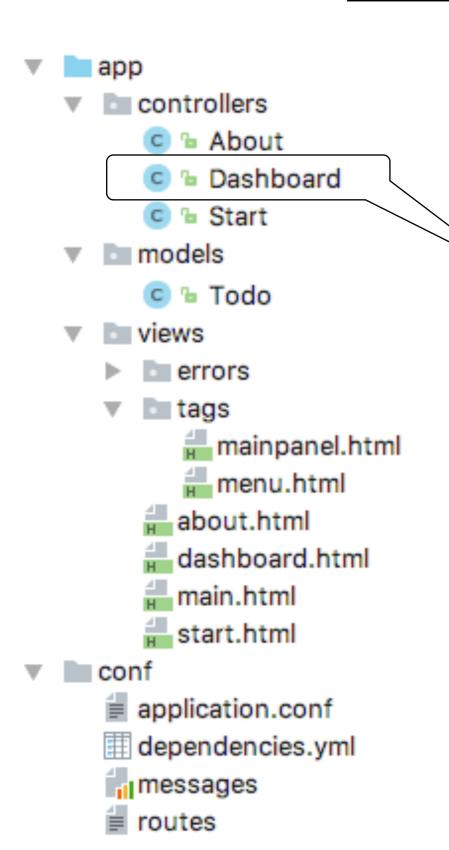


#### Todo Model

```
app
  controllers
    About
      Dashboard
    😊 🖆 Start
 models
    🖸 🖆 Todo
   views
    errors
    tags
      amainpanel.html
      amenu.html
   about.html
      dashboard.html
      main.html
      start.html
■ conf
 application.conf
 dependencies.yml
 messages
 routes
```

```
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);
   }
   ...
}
```

#### **Todo List**

- Make tea
- · Go for snooze
- Make more tea

## "Dynamic" Todo List Segment

#### Todo List

- Make tea
- Go for snooze
- Make more tea

make tea

Add Todo

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");
    }
}
```

Title			
make tea			
Add Todo			

Title		
make tea		
Add Todo		

```
Title
make tea

Add Todo
```

```
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</putton>
    </form>
              POST
                       /dashboard/addtodo
                                                  Dashboard.addTodo
```

```
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</putton>
    </form>
                                                  Dashboard.addTodo
              POST
                       /dashboard/addtodo
```

```
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">
```

<button class="ui blue submit button">Add Todo</putton>

</div>

</form>

/dashboard/addtodo Dashboard.addTodo **POST** 

```
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");
```

Title

make tea

Add Todo

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");
    }
}
```

Title

make tea

Add Todo

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");
    }
}
```

#### controllers About Dashboard Start models 🖸 🖫 Todo views errors tags mainpanel.html menu.html about.html dashboard.html main.html start.html 😊 🖆 Bootstrap conf application.conf data.yml dependencies.yml messages routes

### <u>Bootstrap</u>

```
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

#### app controllers About Dashboard Start models 😊 🖆 Todo views errors tags mainpanel.html menu.html about.html dashboard.html main.html #start.html 😊 🖆 Bootstrap conf application.conf data.yml dependencies.yml messages routes

#### <u>Bootstrap</u>

```
Todo(t1):
   title: Make tea

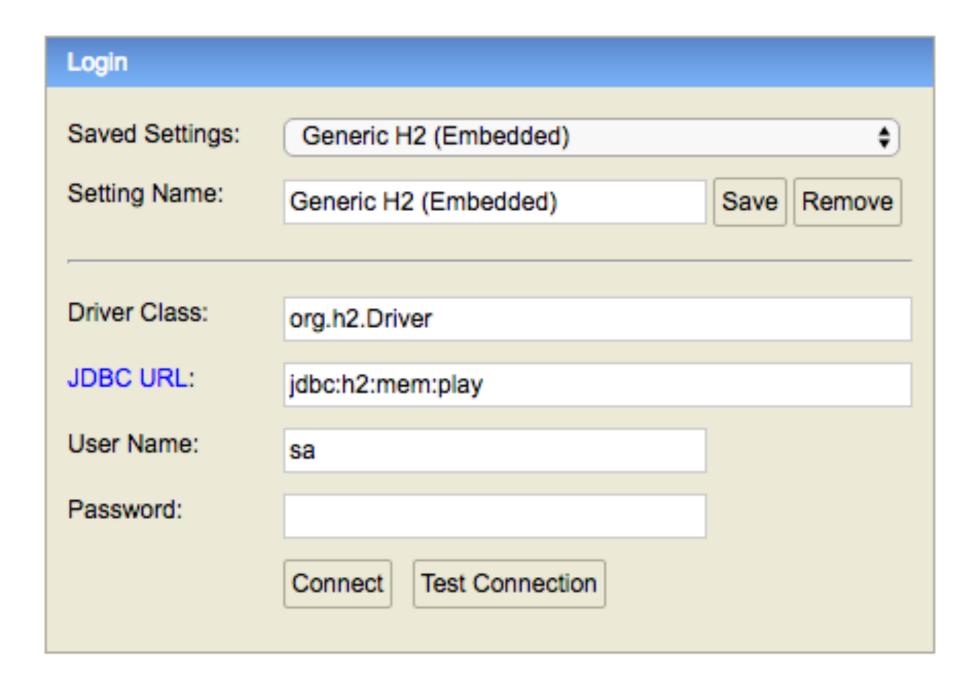
Todo(t2):
   title: Go for snooze

Todo(t3):
   title: Make more tea
```



Todo Objects loaded by Bootstrap

## http://localhost:9000/@db



#### localhost:9000/@db

