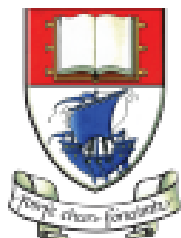


Semantic HTML + UI

Produced by: Eamonn de Leastar (edelestar@wit.ie)
Dr. Siobhán Drohan (sdrohan@wit.ie)

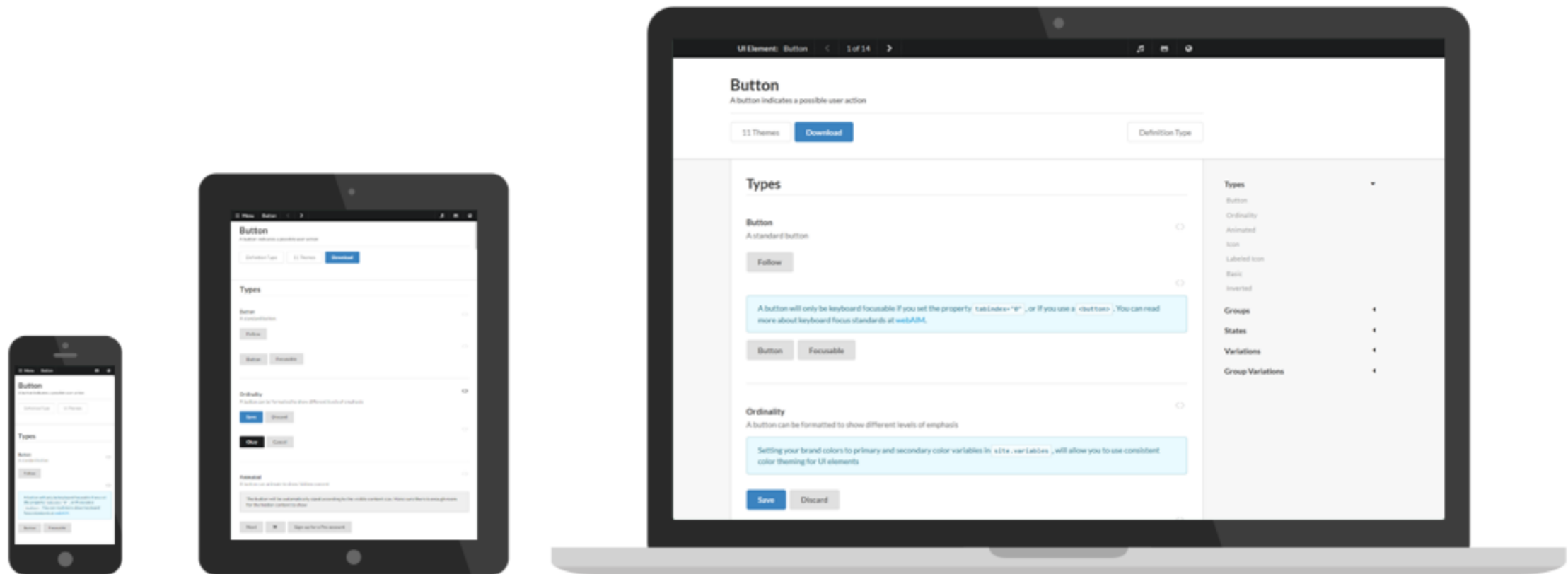


Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

Department of Computing and Mathematics
<http://www.wit.ie/>

Topics List

- Overview of Semantic
- Specifics on Semantic
- Installing Semantic with Play
- Using Semantic with Play



Design Beautiful Websites Quicker

Semantic is a development framework that helps create beautiful, responsive layouts using human-friendly HTML.

Some marketing speil...

*Semantic allows developers to build beautiful websites fast, with **concise HTML**, **intuitive javascript**, and **simplified debugging**, helping make front-end development a delightful experience.*

*Semantic is responsively designed allowing your website to scale on multiple devices. Semantic is production ready and partnered with frameworks such as **React**, **Angular**, **Meteor**, and **Ember**, which means you can integrate it with any of these frameworks to organize your UI layer alongside your application logic.*

Concise HTML

Semantic UI treats words and classes as exchangeable concepts.

Classes use syntax from natural languages like noun/modifier relationships, word order, and plurality to link concepts intuitively.

```
<div class="ui three buttons">  
  <button class="ui active button">One</button>  
  <button class="ui button">Two</button>  
  <button class="ui button">Three</button>  
</div>
```

One

Two

Three



Unbelievable Theming

Semantic comes equipped with an intuitive inheritance system and high level theming variables that let you have complete design freedom.

Develop your UI once, then deploy with the same code everywhere.

Raised▼

View

Add to Cart

Save for Later

Rate

1

2

3

Classic▼

View

Add to Cart

Save for Later

Rate

1

2

3

Google Material▼

View

Add to Cart

Save for Later

Rate

1

2

3

GitHub▼

View

Add to Cart

Save for Later

Rate

1

2

3

Learn about changing themes: <http://semantic-ui.com/usage/theming.html>



Unbelievable Breadth

Definitions aren't limited to just buttons on a page. Semantic's components allow several distinct types of definitions: elements, collections, views, modules and behaviors which cover the gamut of interface design.

Terminology – Definitions and Components

- A **definition** is a set of CSS and Javascript which describe a component's essential qualities.
- A **component** refers to any UI element packaged for distribution.
- Semantic UI classifies **components** into five areas:
 - Elements
 - Collections
 - Views
 - Modules
 - Behaviours



Unbelievable Breadth

Definitions aren't limited to just buttons on a page. Semantic's components allow several distinct types of definitions: elements, collections, views, modules and behaviors which cover the gamut of interface design.

Elements

UI elements are page elements with a single function. They can exist alone or in a plural form with elements sharing qualities e.g.: A group of [buttons](#) may use ui red buttons as a grouping with individual ui button children.

Elements

Button

Container

Divider

Flag

Header

Icon

Image

Input

Label

List

Loader

Rail

Reveal

Segment

Step

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante.

Segment

A segment is used to create a grouping of related content.



Image

An image is a graphic representation of something



Icon

An icon is a glyph used to represent another concept more simply

Divider

A

OR

B

Step

Steps show the current activity in a series of steps.

First

Second

Third

Last

Section 2

The second section of the website

Header

Headers provide a short summary of content

Input



Search...

Search

http://

mysite.com



Enter categories



Add Tags

Label



molly@thebears.com x



23 New



Dresses



FOLLOW



Button

A button indicates a possible user action.

Collections

Collections are heterogeneous groups of components which are usually found together. They describe a list of "usual suspects" which appear in a certain context.

Collections

Breadcrumb

Form

Grid

Menu

Message

Table

Menu

Inbox

1

Trash

1

Search mail...




Food / Fruit / **Apples**

Food > Fruit > **Apples**

Breadcrumb

A breadcrumb is a menu to show the location of the current section in relation to other sections.

Name

 Name

E-mail

E-mail

Form

A form is used to solicit a user response

Message

This site uses cookies



Looking for help?

- Use our [help center](#)
- Check our [FAQ](#)

We're creating your profile page

It will be ready in just a second.

1

2

3

Grid

A grid helps harmonize negative space in a layout

Name

Status

John

Approved

John

Unconfirmed

Sally

Denied

Table

A table collects related data into rows of content

Views

A view is a convention for presenting specific types of content that is usually consistent across a website.

Views

Advertisement

Card

Comment

Feed

Item

Statistic

Statistic

A statistic can display a value with a label above or below it.

5,550

DOWNLOADS

VIEWS

40,509

Statistic Group

A group of statistics

22

FAVES

31,200

VIEWS

22

MEMBERS

Feed



Mark added you as a friend

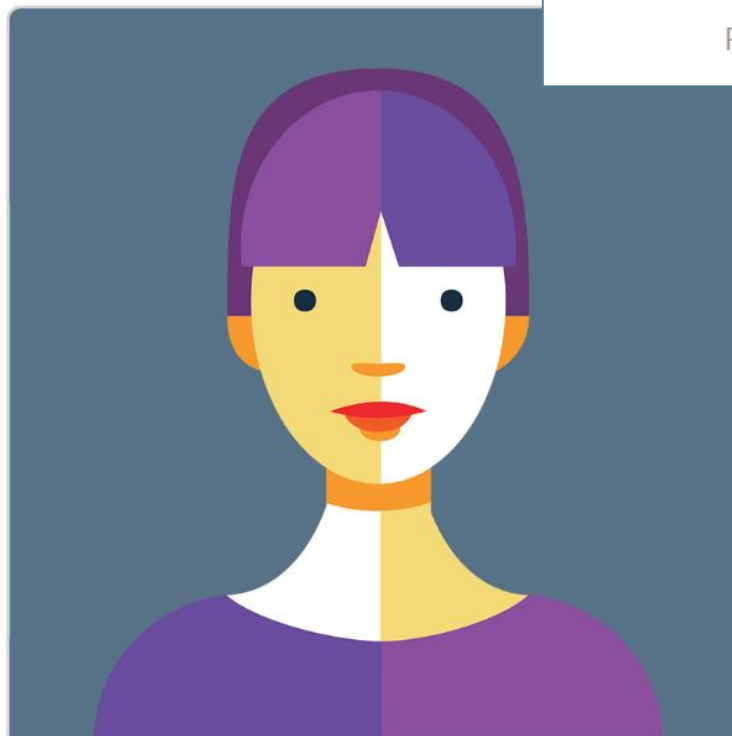


You added Lena to the group [Close Friends](#)



Eve just [posted on your page](#)

Card



Rachel Maddaw

Pundit



22 Friends

Joined in 1998

Comments



Matt Today at 5:42PM

How artistic!

[Reply](#)



Elliot Fu Yesterday at 12:30AM

This has been very useful for my research. Thanks as well!

[Reply](#)



Jenny Hess Just now

Elliot you are always so right :)

[Reply](#)



Joe Henderson 5 days ago

Dude, this is awesome. Thanks so much

[Reply](#)

Modules

Modules are components that include both a definition of how they appear and how they behave.

Modules

Accordion

Checkbox

Dimmer

Dropdown

Embed

Modal

Nag

Popup

Progress

Rating

Search

Shape

Sidebar

Sticky

Tab

Transition

Star

A rating can use a set of star icons

Rating 

Heart

A rating can use a set of heart icons



Standard

A standard progress bar



Dropdown

Select Country ▼

Accordion

Size ▼

- ☐ Small
- ☐ Medium
- ☐ Large
- ☐ X-Large

Colors ◀

Checkbox

☐ I enjoy having fun

☐ Receive weekly poodle newsletter

☐ Make my dog's profile public

Behaviors

API

Form Validation

Visibility

Behaviours

Behaviors are standalone Javascript components that describe how page elements should act, but not how they should appear.

```
$('.ui.form')
  .form({
    fields: {
      name      : 'empty',
      gender    : 'empty',
      username  : 'empty',
      password  : ['minLength[6]', 'empty'],
      skills    : ['minCount[2]', 'empty'],
      terms     : 'checked'
    }
  })
;
```

Tell Us About Yourself

Name

Gender

Username

Password

Skills

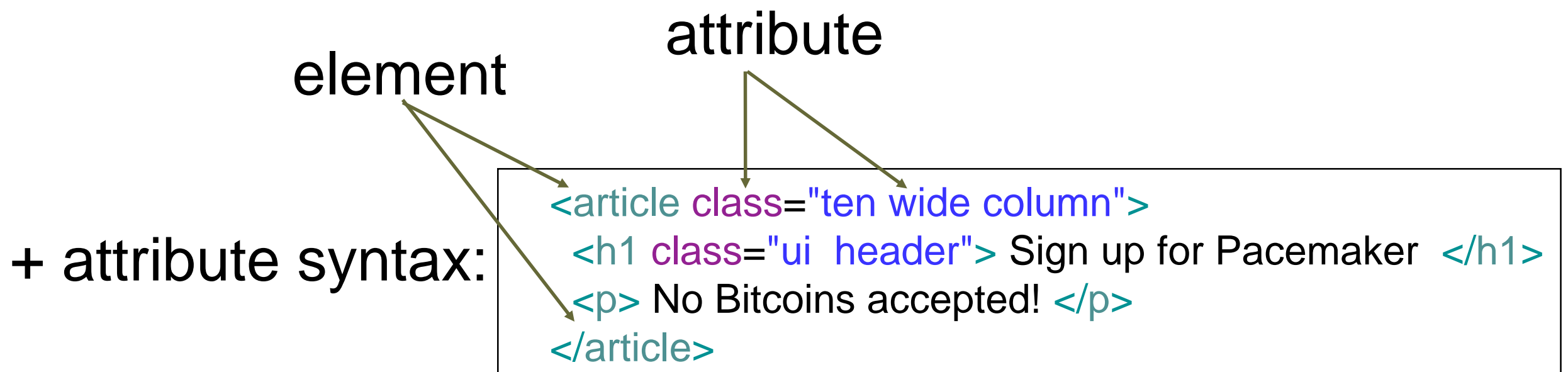
☐ I agree to the terms and conditions

Submit

Topics List

- Overview of Semantic
- Specifics on Semantic
- Installing Semantic with Play
- Using Semantic with Play

<i>metadata</i>	• <code><html> <head></code>
<i>sections</i>	• <code><body><section><article><nav><aside><header><footer><h1><h2><h3></code>
<i>grouping</i>	• <code><p> <div></code>
<i>links</i>	• <code><a></code>
<i>embedding</i>	• <code></code>
<i>forms</i>	• <code><form></code>
<i>tabular data</i>	• <code><table></code>



ui – Special Class

- **ui** is a special class name used to distinguish parts of components from the overall component e.g.
 - a list uses the class **ui list** because it has a corresponding definition, however a list item, will just use the class **item**.
- The **ui** class name helps encapsulate CSS rules by making sure all 'parts of a component' are defined in context to a 'whole' component.
- It also helps make scanning unknown code simpler. If you see **ui** you know you are looking at a component.

List

A list groups related content

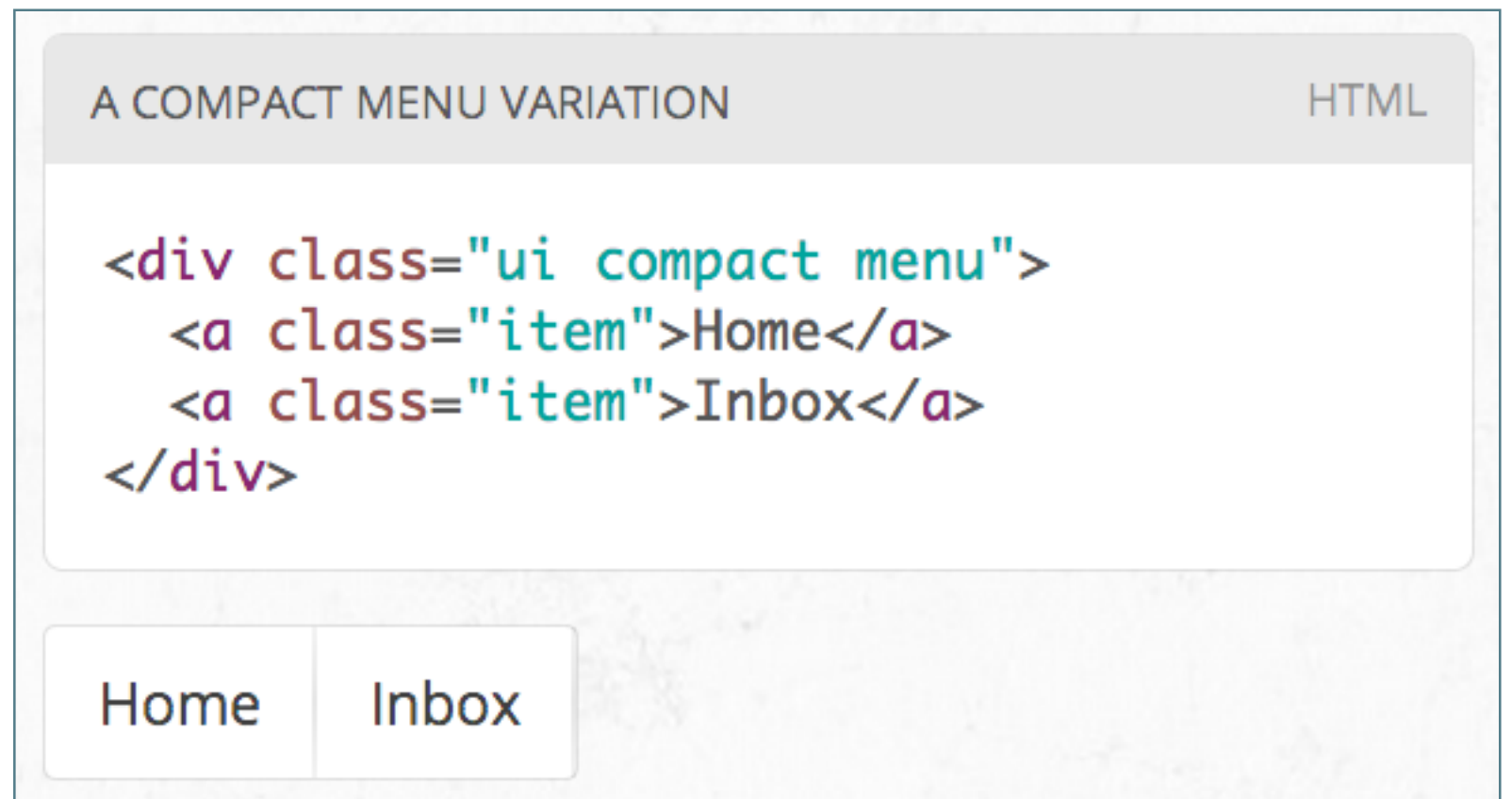
Example

Apples
Pears
Oranges

```
<div class="ui list">  
  <div class="item">Apples</div>  
  <div class="item">Pears</div>  
  <div class="item">Oranges</div>  
</div>
```

Changing an Element

- Class names in Semantic always use single english words.
- If a class name is an adjective it is either a type of element or variation of an element.
- CSS definitions always define adjectives in the context of a noun. In this way class names cannot pollute the namespace.



Combining an Element

- All UI definitions in semantic are stand-alone, and do not require other components to function.
- However, components can choose to have optional couplings with other components.
- For example you might want to include a badge inside a menu. A label inside of a menu will automatically function as a badge

USING A UI LABEL INSIDE A UI MENU

HTML

```
<div class="ui compact menu">  
  <a class="item">Home</a>  
  <a class="item">  
    Inbox  
    <div class="ui label">22</div>  
  </a>  
</div>
```

Home

Inbox 22


Types / Variations


- A ui definition in Semantic usually contains a list of mutually exclusive variations on an element design.
- A type is designated by an additional class name on a UI element


TYPES OF UI BUTTON

HTML

```
<div class="ui labeled icon button">
  Download <i class="download icon"></i>
</div>
<div class="ui icon button">
  <i class="download icon"></i>
</div>
<div class="ui button">
  Download
</div>
<div class="ui facebook button">
  <i class="facebook icon"></i>
  Facebook
</div>
```

 **DOWNLOAD**

 **DOWNLOAD**

 **FACEBOOK**




Types / Content

- Types may require different html structures to work correctly.
- For example, an icon menu might expect different content like icons glyphs instead of text to be formatted correctly

ICON MENU TYPE

HTML

```
<div class="ui icon menu">  
  <a class="item">  
    <i class="mail icon"></i>  
  </a>  
  <a class="item">  
    <i class="lab icon"></i>  
  </a>  
  <a class="item">  
    <i class="star icon"></i>  
  </a>  
</div>
```




Types / HTML Differences


- Types may also each require slightly different html.
- For example, a tiered menu needs html specified for a sub menu to display itself correctly

TIERED MENU TYPE

HTML

```
<div class="ui tiered menu">
  <div class="menu">
    <div class="active item">
      <i class="home icon"></i>
      Home
    </div>
    <a class="item">
      <i class="mail icon"></i>
      Mail
      <span class="ui label">22</span>
    </a>
  </div>
  <div class="sub menu">
    <div class="active item">Activity</div>
    <a class="item">Profile</a>
  </div>
</div>
```

 Home

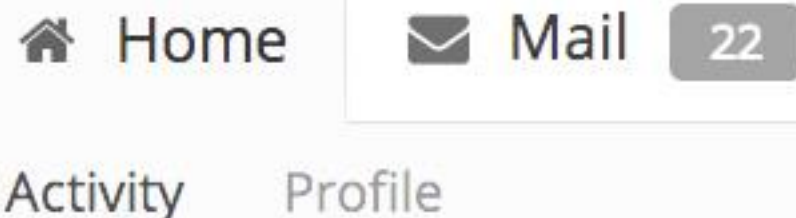
 Mail 22

Activity Profile

Variations

- A variation alters the design of an element but is not mutually exclusive.
- Variations can be stacked together, or be used along with altering an element's type.
- For example, having wide menus that take up the full width of its parent may sometimes be overwhelming. You can use the compact variation of a menu to alter its format to only take up the necessary space.

```
<div class="ui compact tiered menu">  
  ...  
</div>
```



Intersecting Variations

- The definition for the variation red contains css specifically for describing the intersection of both red and inverted.

```
<div class="ui red tiered menu">  
  ...  
</div>
```

 Home



Mail

22

Activity

Profile

Topics List

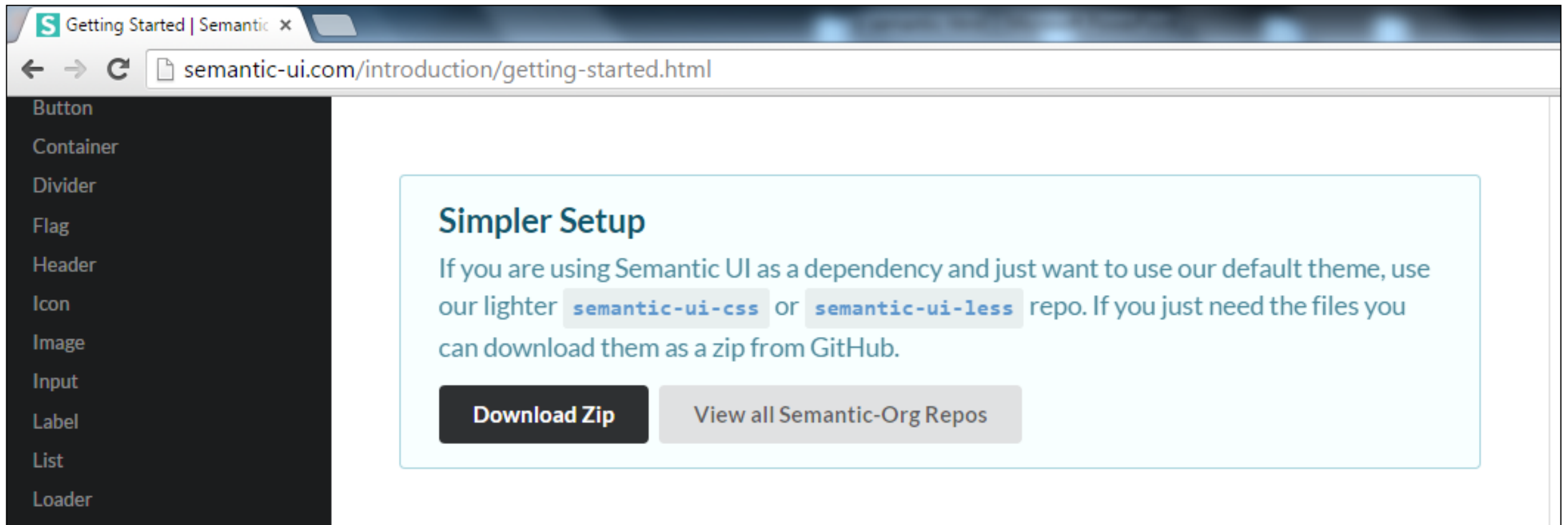
- Overview of Semantic
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Semantic UI

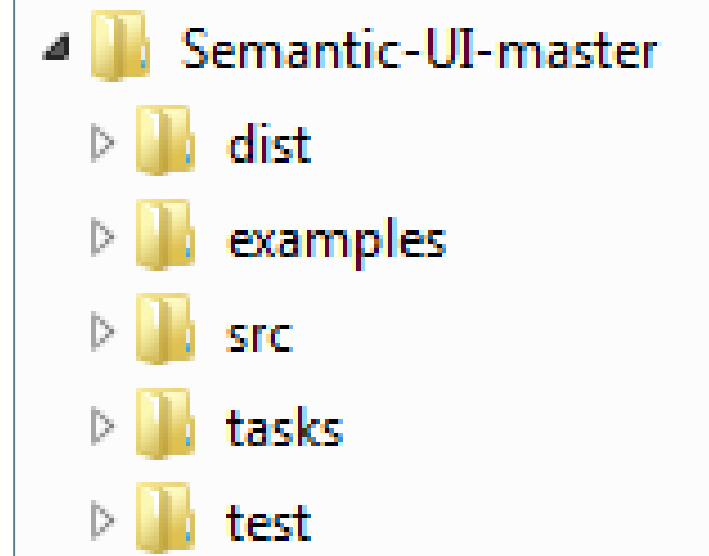


<http://semantic-ui.com/>

Installing Semantic UI as a project dependency

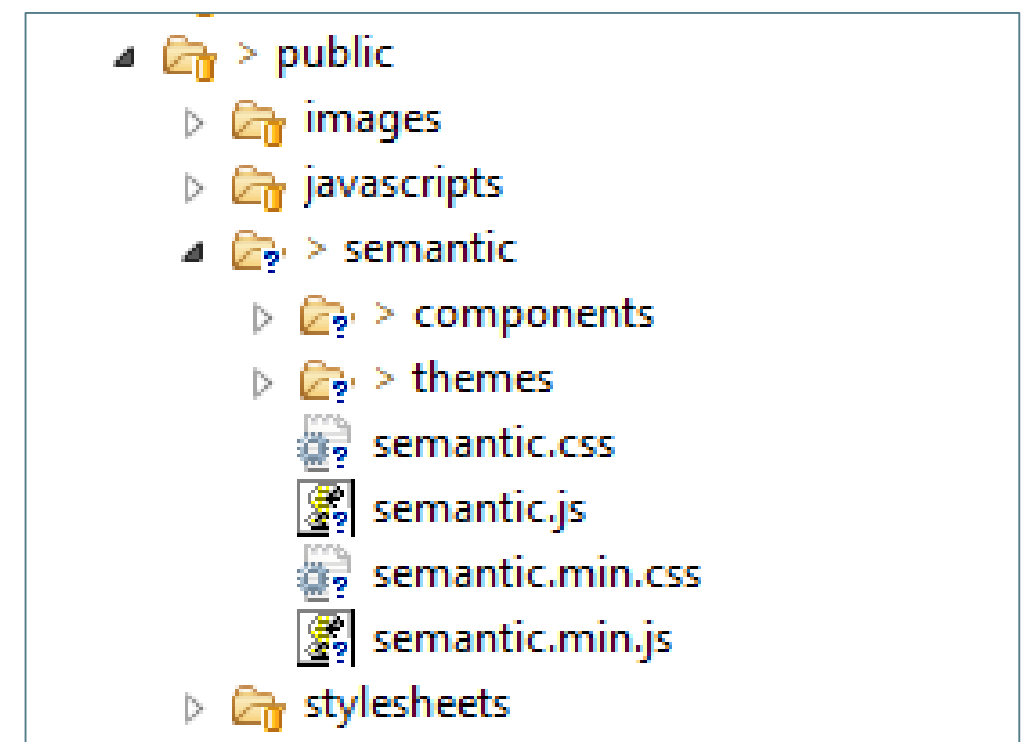
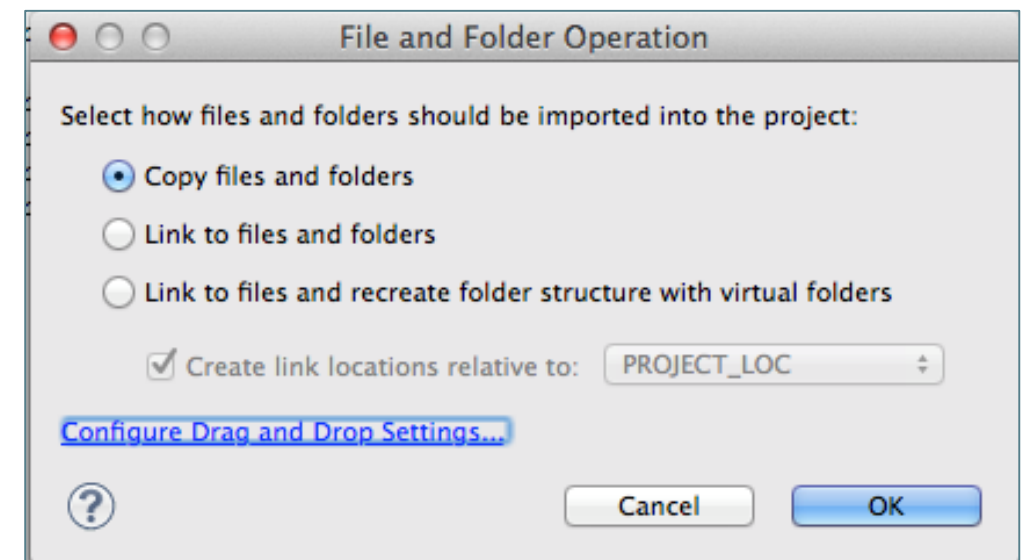


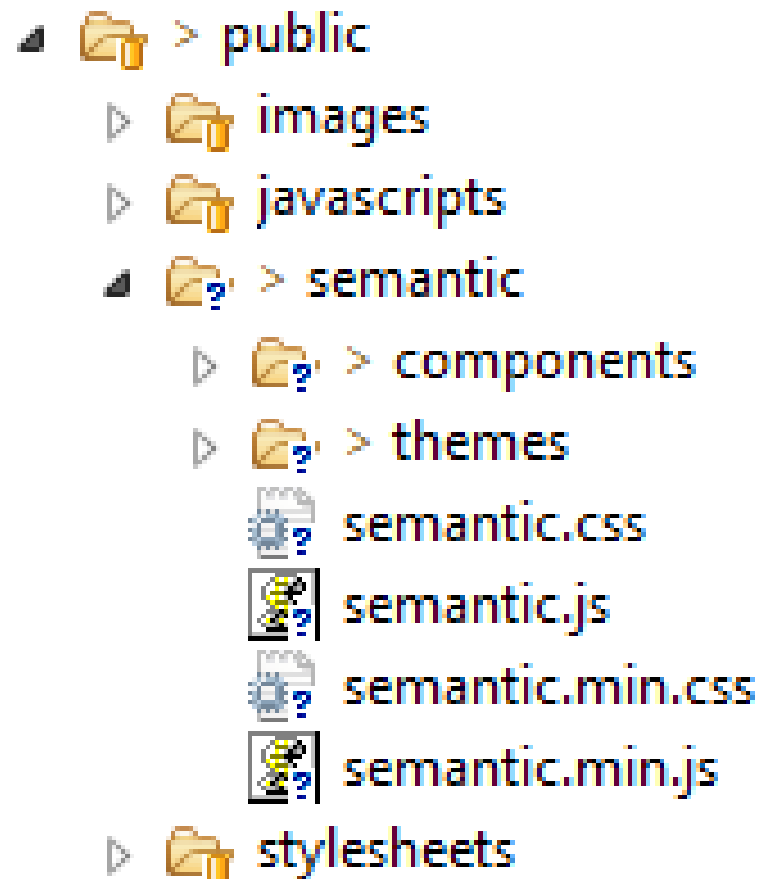
- Download and expand the zip file.
- You should have this file structure →



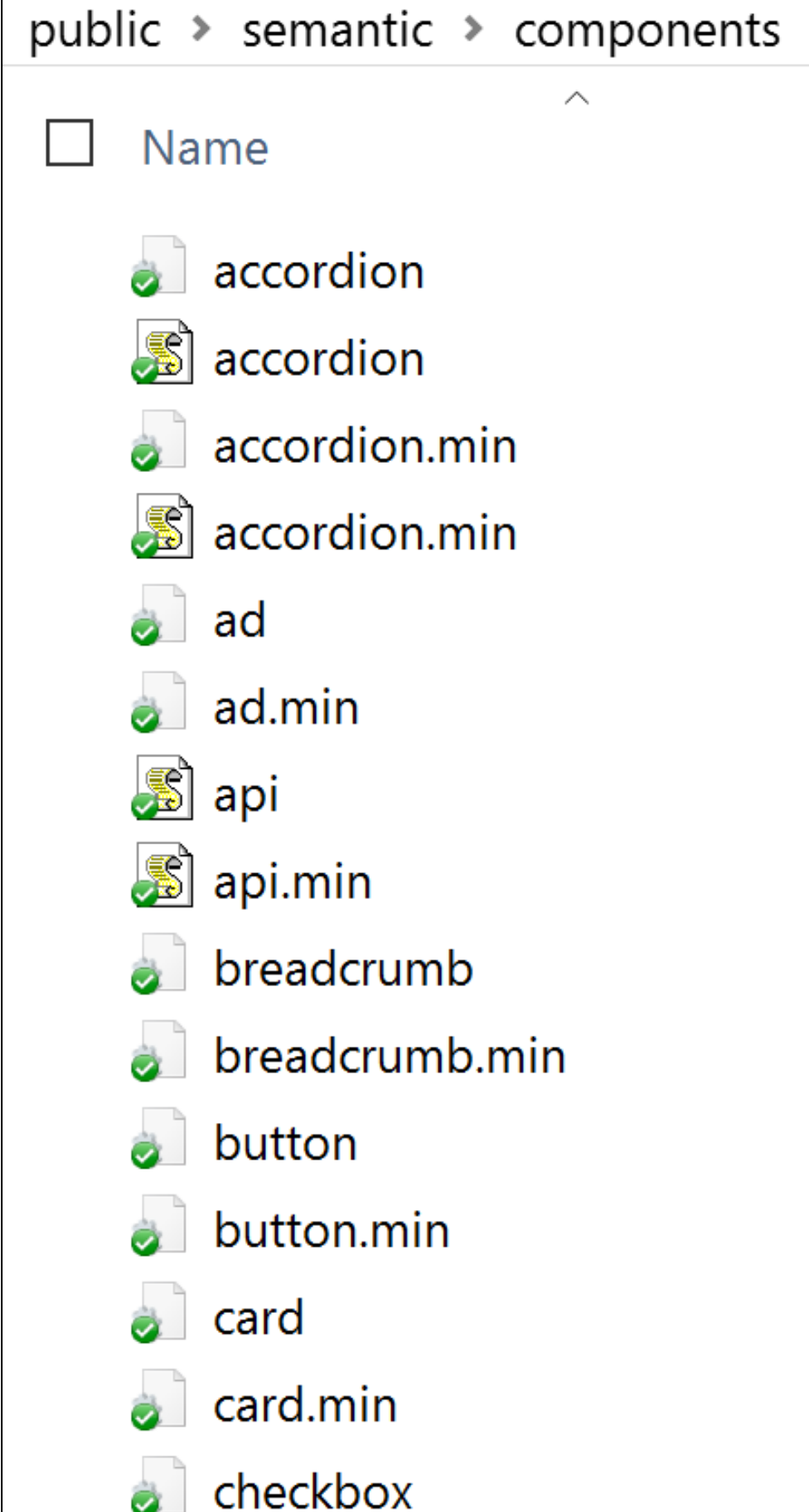
Installing Semantic UI as a project dependency

- Open your eclipse project and drag the **dist** folder and drop it into the **public** folder.
- When prompted, select the copy files and folders option:
- Once the folder is copied over rename it from **dist** to **semantic**. Your **public** folder structure should now look similar to this:



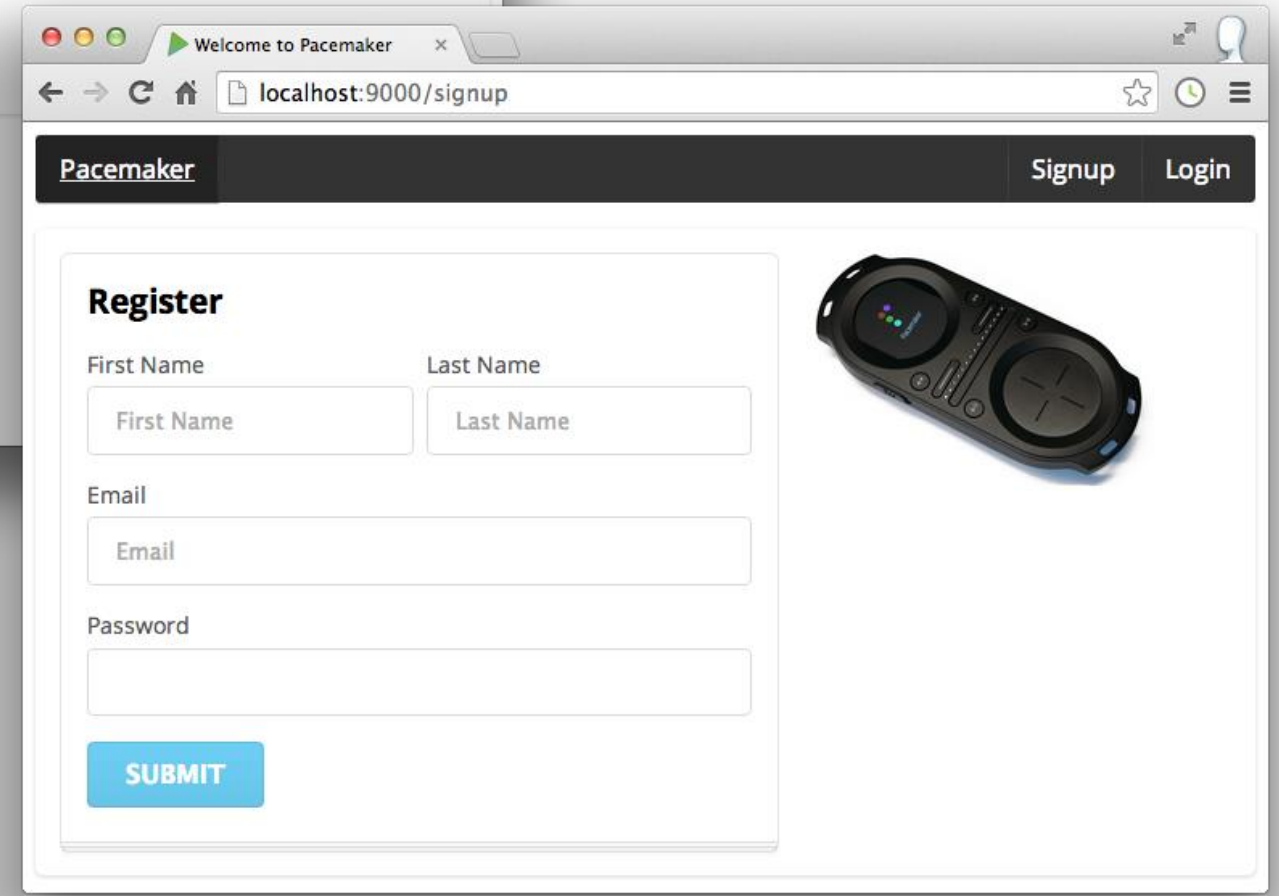
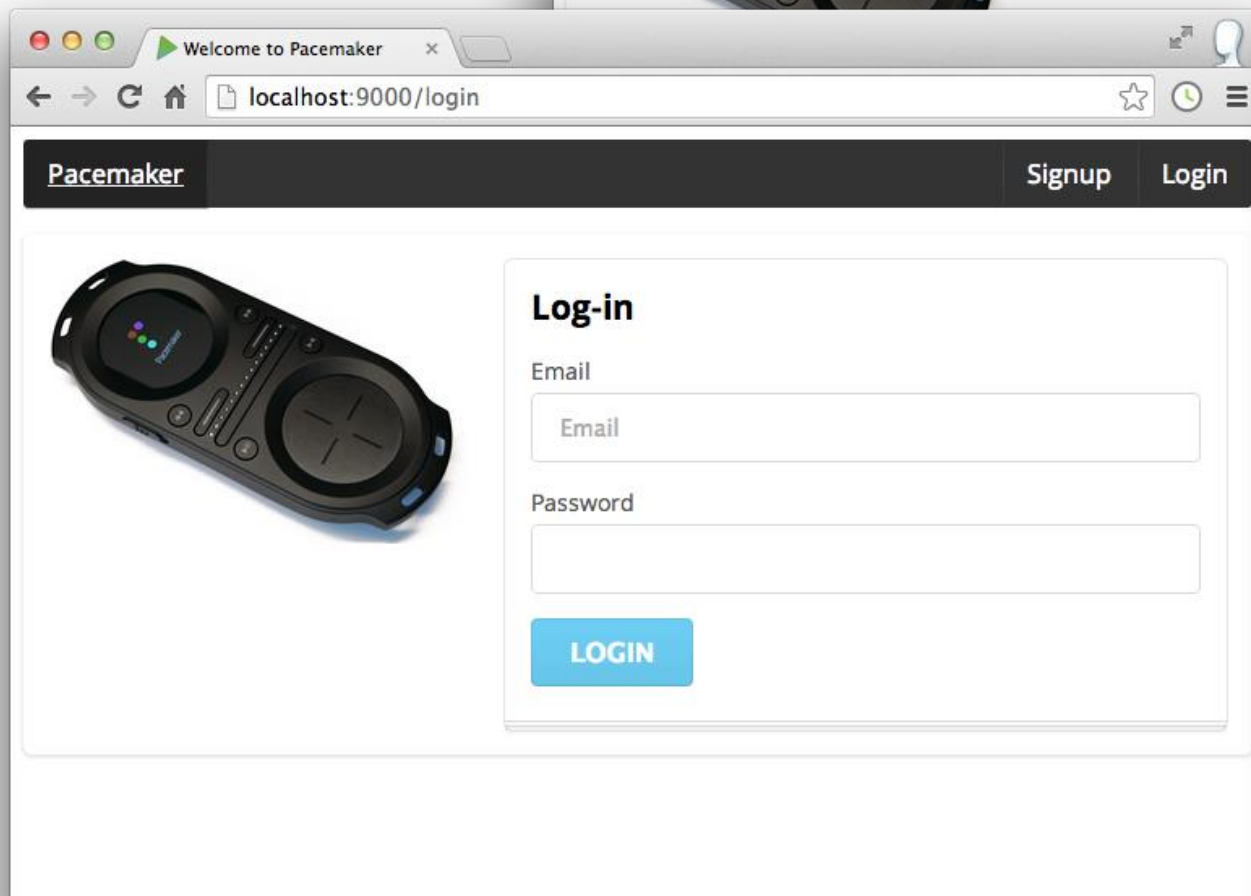
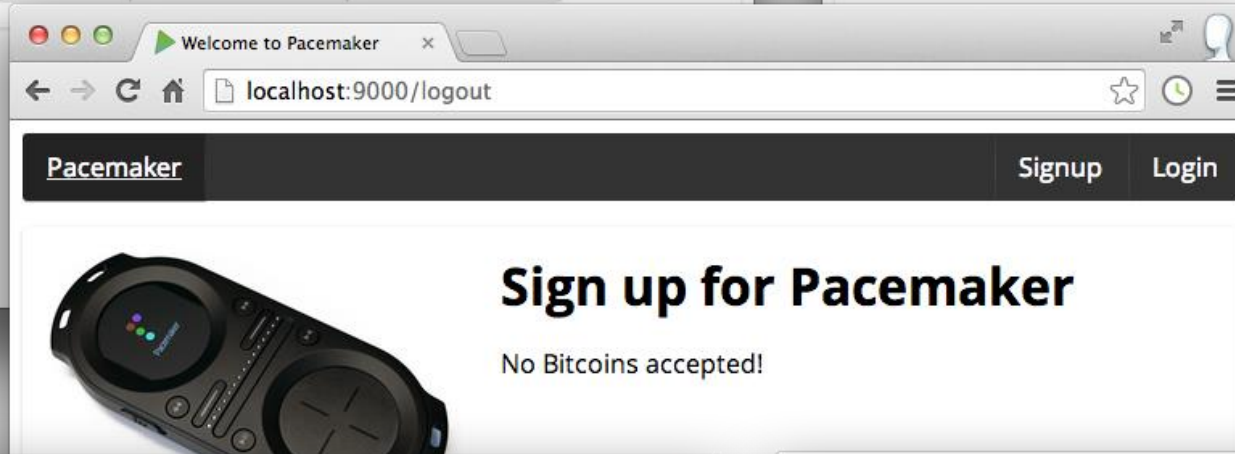
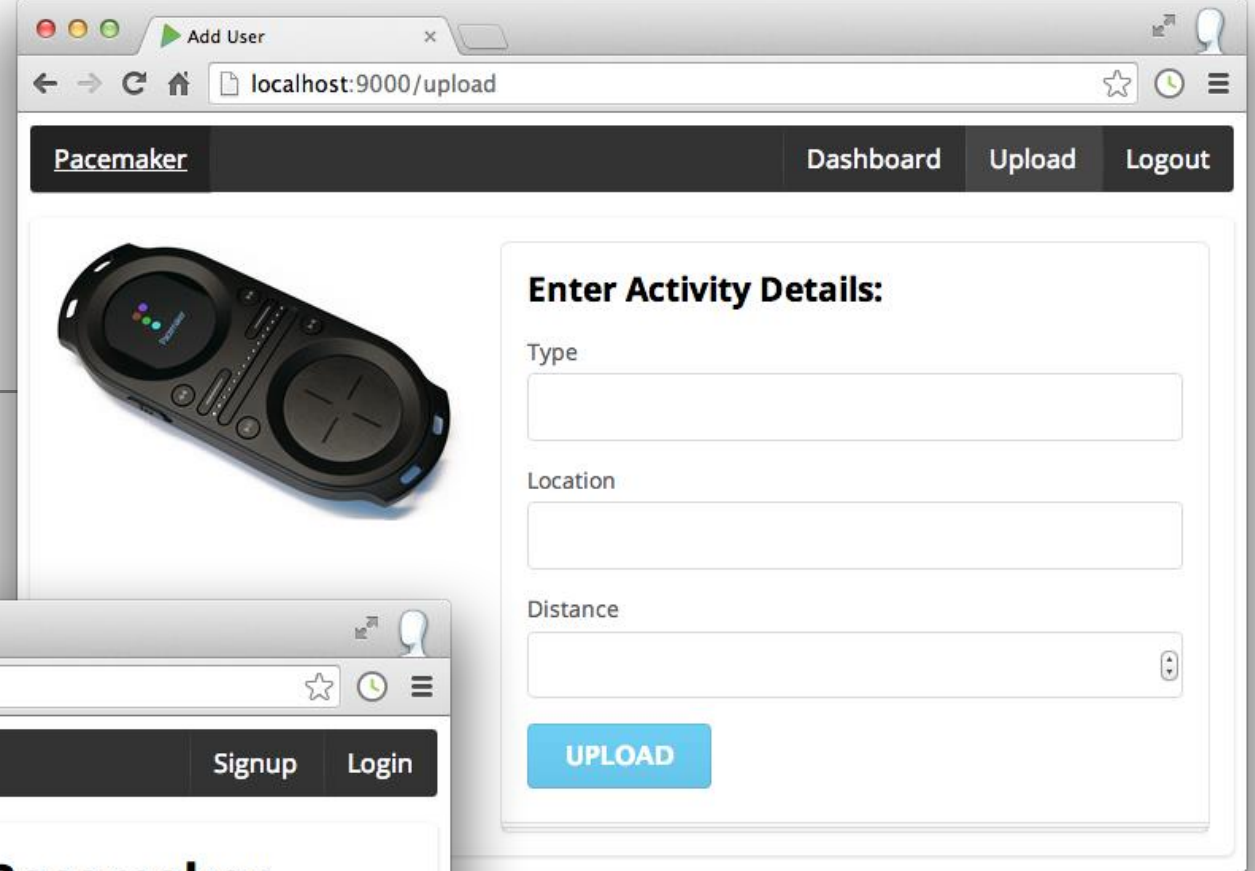
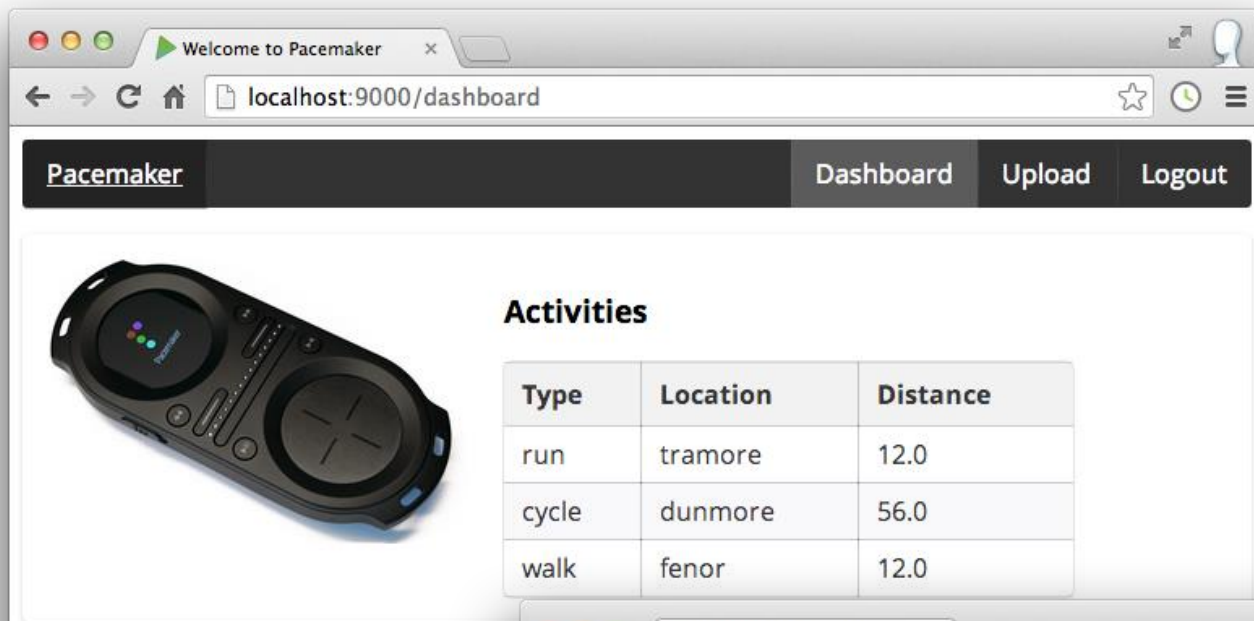


50+ UI elements
3000+ CSS variables

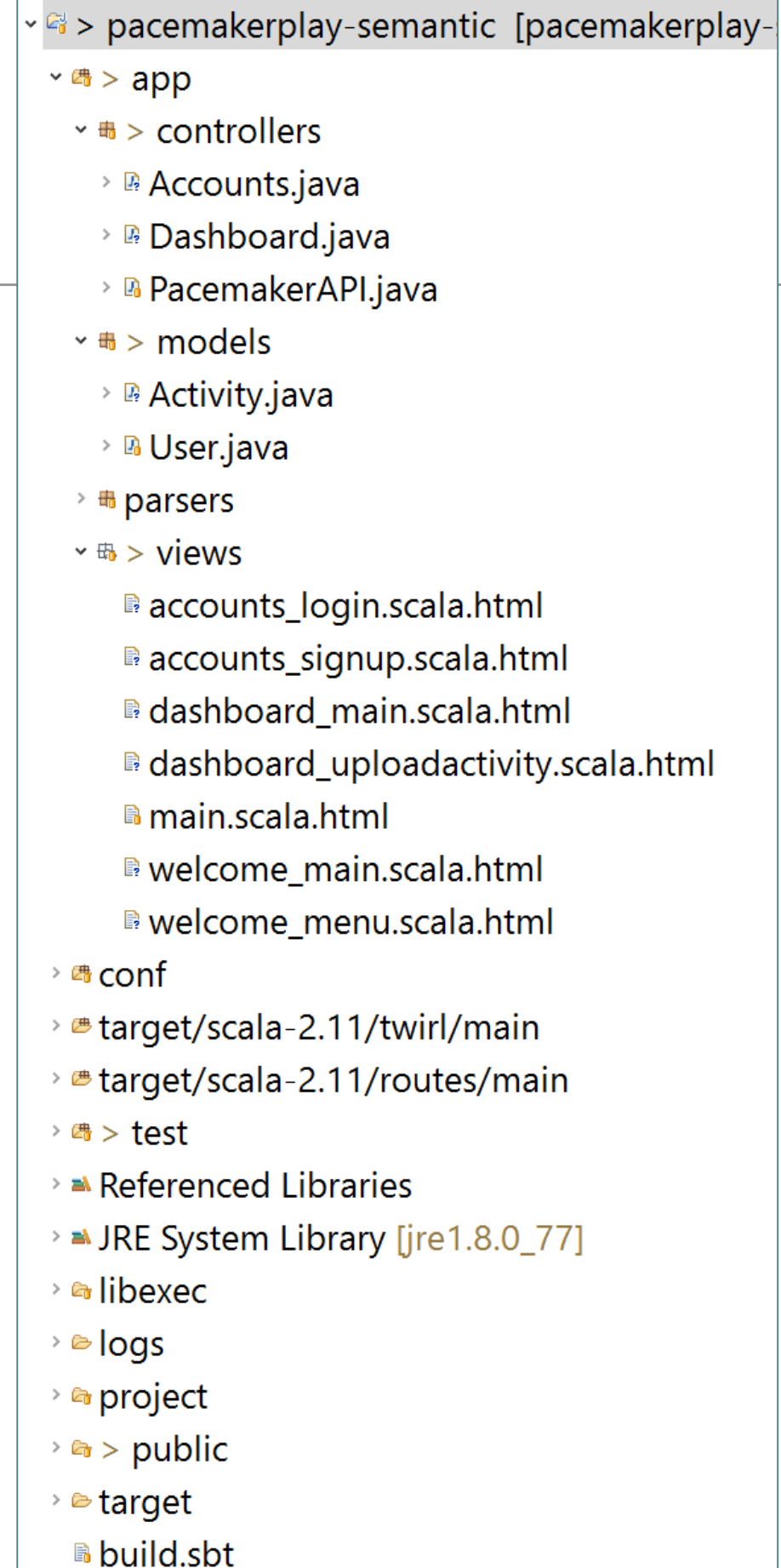
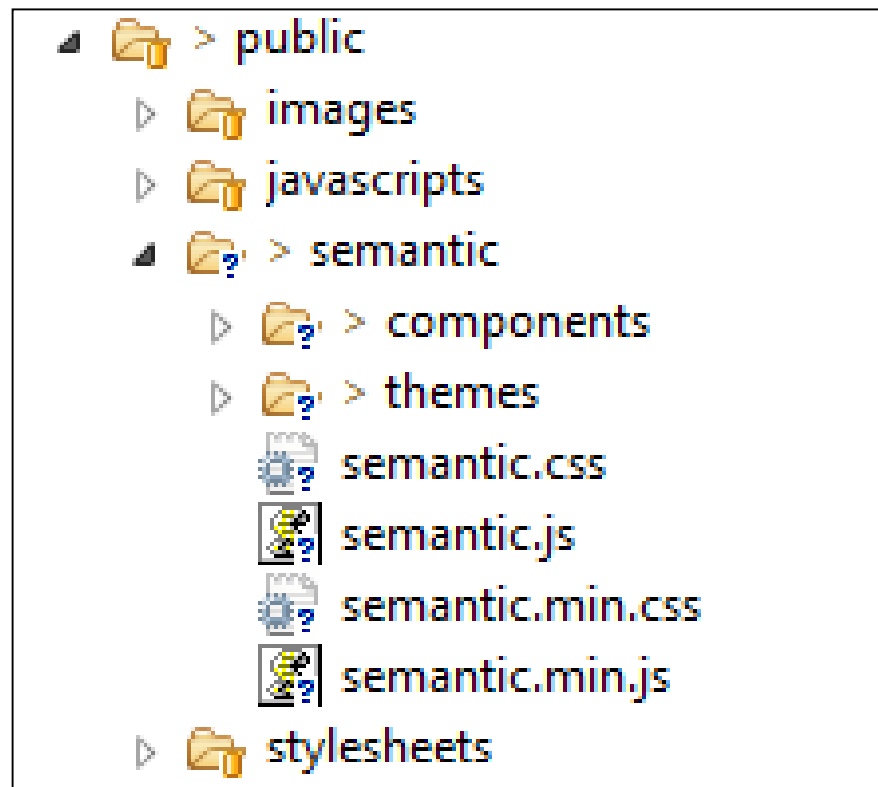


Topics List

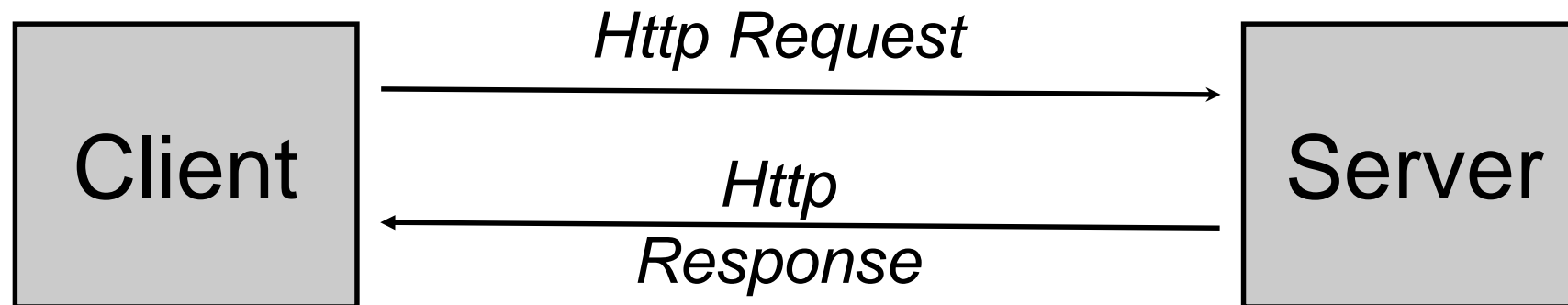
- Overview of Semantic
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pacemakerplay-semantic



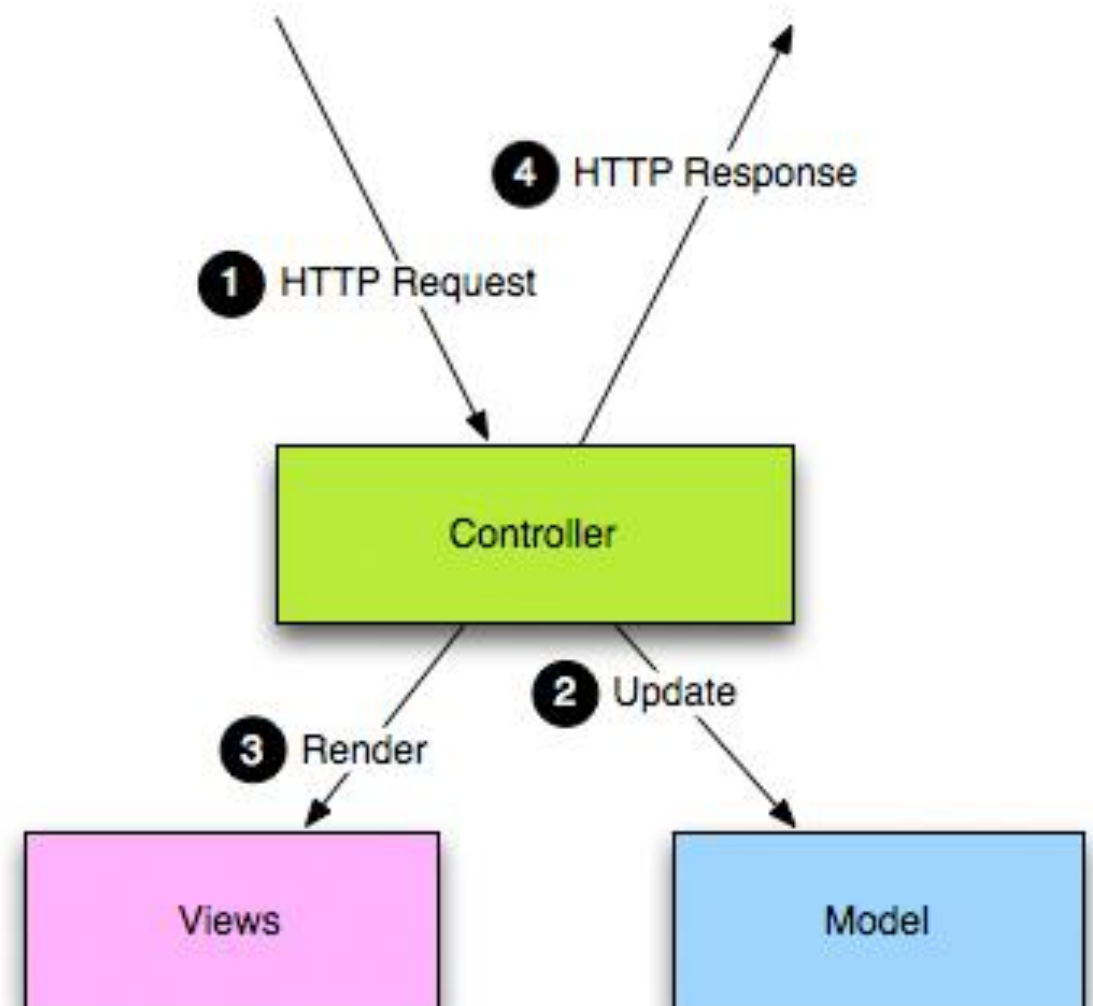
Web Applications - Request/Response



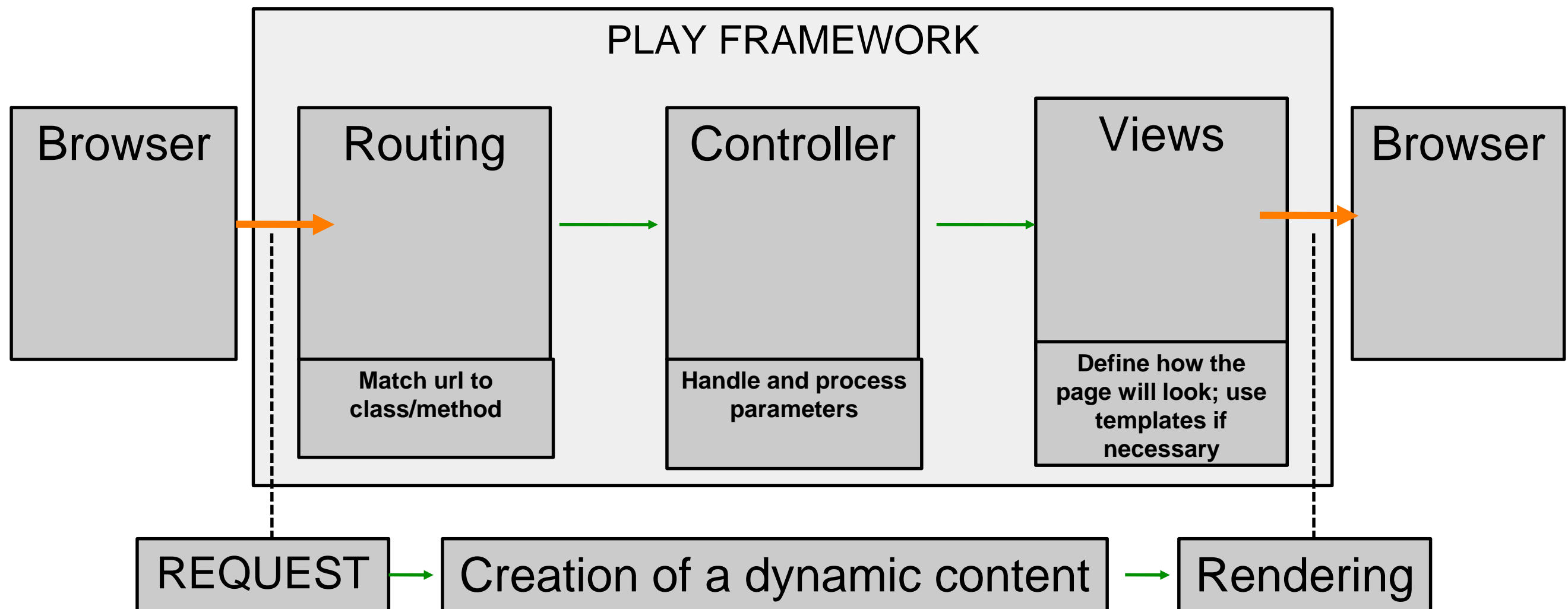
- Request - http request emitted by browser as a result to url in address bar, link, button or form submission on page.
- Response - web page returned from service to be presented in browser.

Web Applications - MVC

- Model View Controller is a generally accepted pattern or separation of concerns within the server.
- **Model:** Core application domain model + database persistence.
- **View:** User Experience.
- **Controller:** Directly handle all requests, mediate with Model, build and assemble the response using the views.

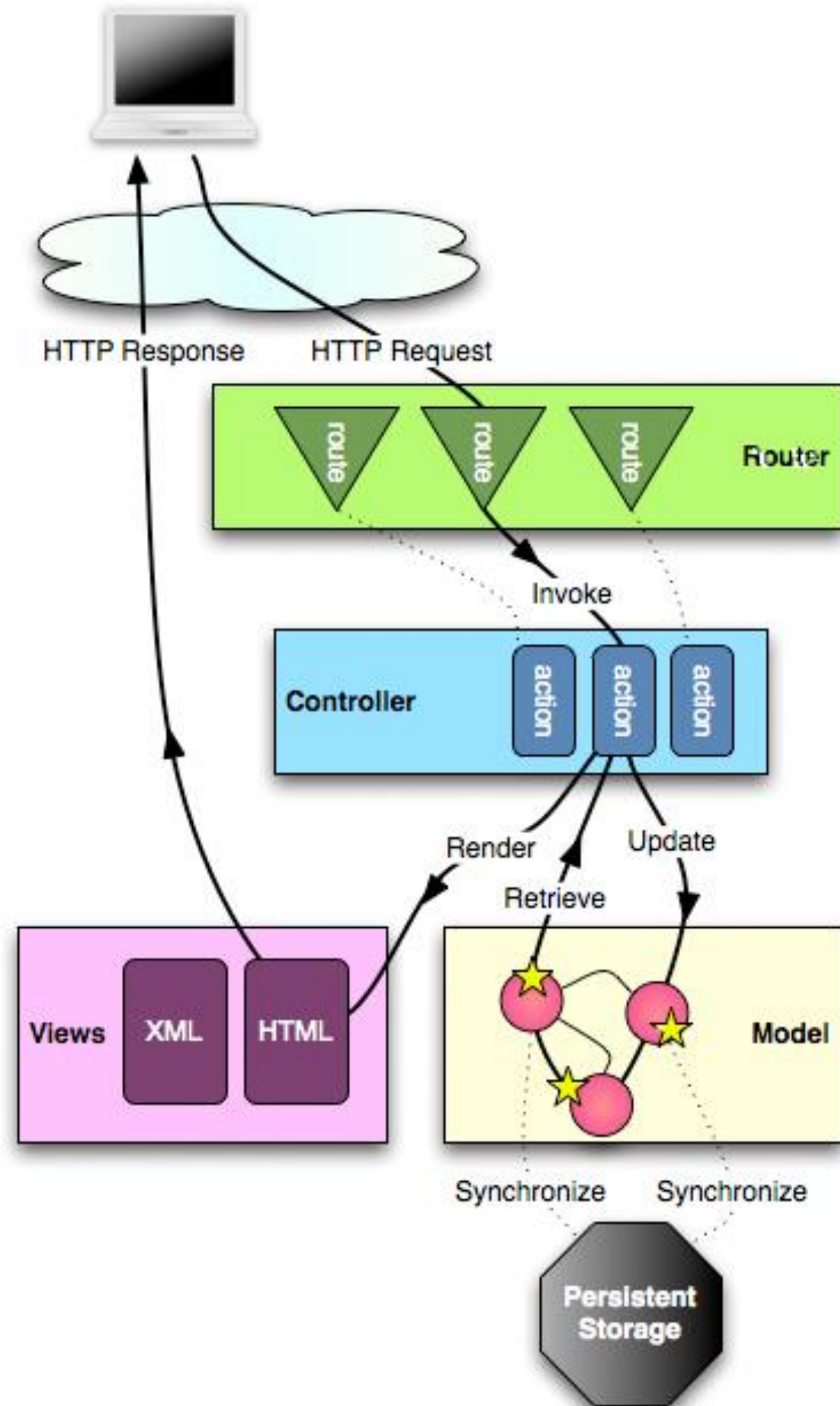


Request/Response Lifecycle



MVC in Play

- **Router:** examine incoming requests and match to corresponding Controller/Action.
- **Action:** a method in the controller.



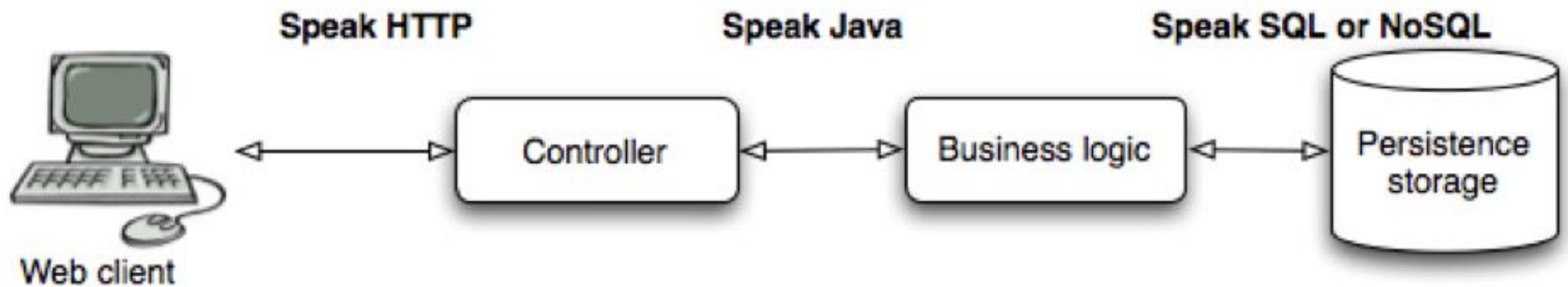
Routes - UI

UI

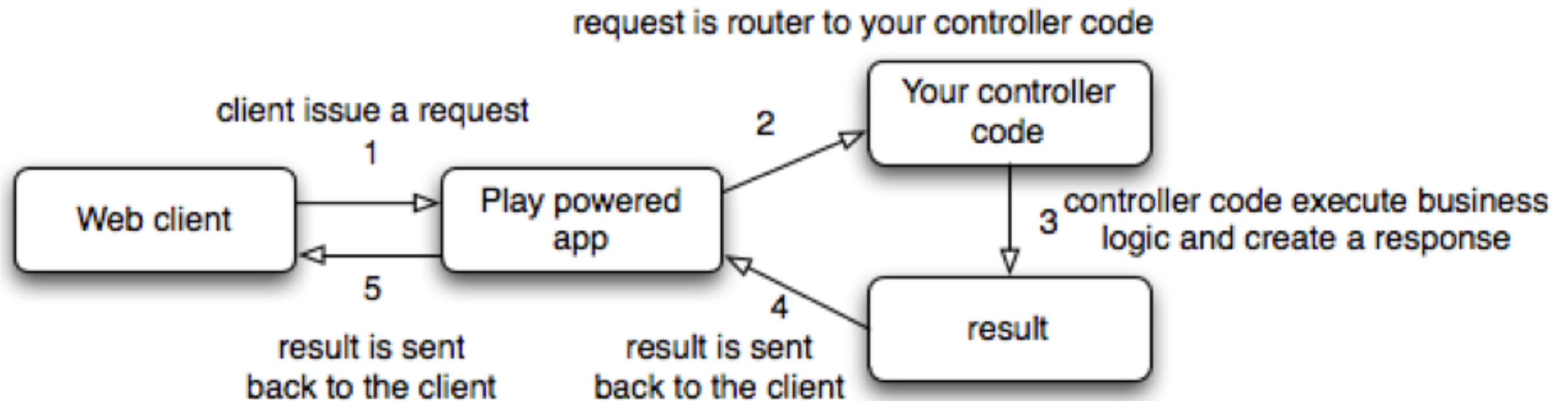
GET	/	controllers.Accounts.index()
GET	/signup	controllers.Accounts.signup()
GET	/login	controllers.Accounts.login()
GET	/logout	controllers.Accounts.logout()
POST	/register	controllers.Accounts.register()
POST	/authenticate	controllers.Accounts.authenticate()
GET	/dashboard	controllers.Dashboard.index()
GET	/upload	controllers.Dashboard.uploadActivityForm()
POST	/submitactivity	controllers.Dashboard.submitActivity()

- Routes to deliver UI.
- Each of these routes appears in views.
- Each of these actions generates and returns a complete HTML page.

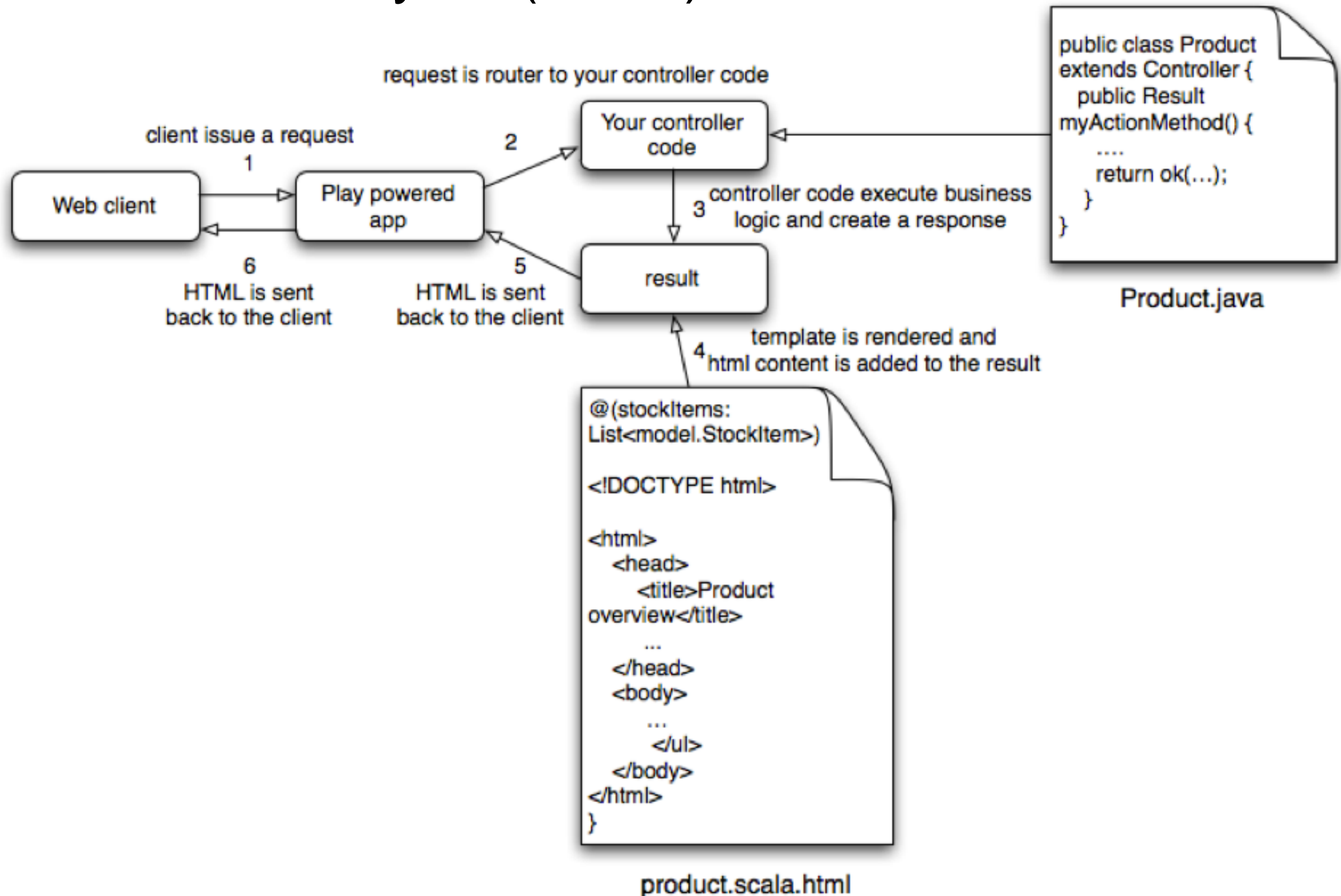
Role of Controller



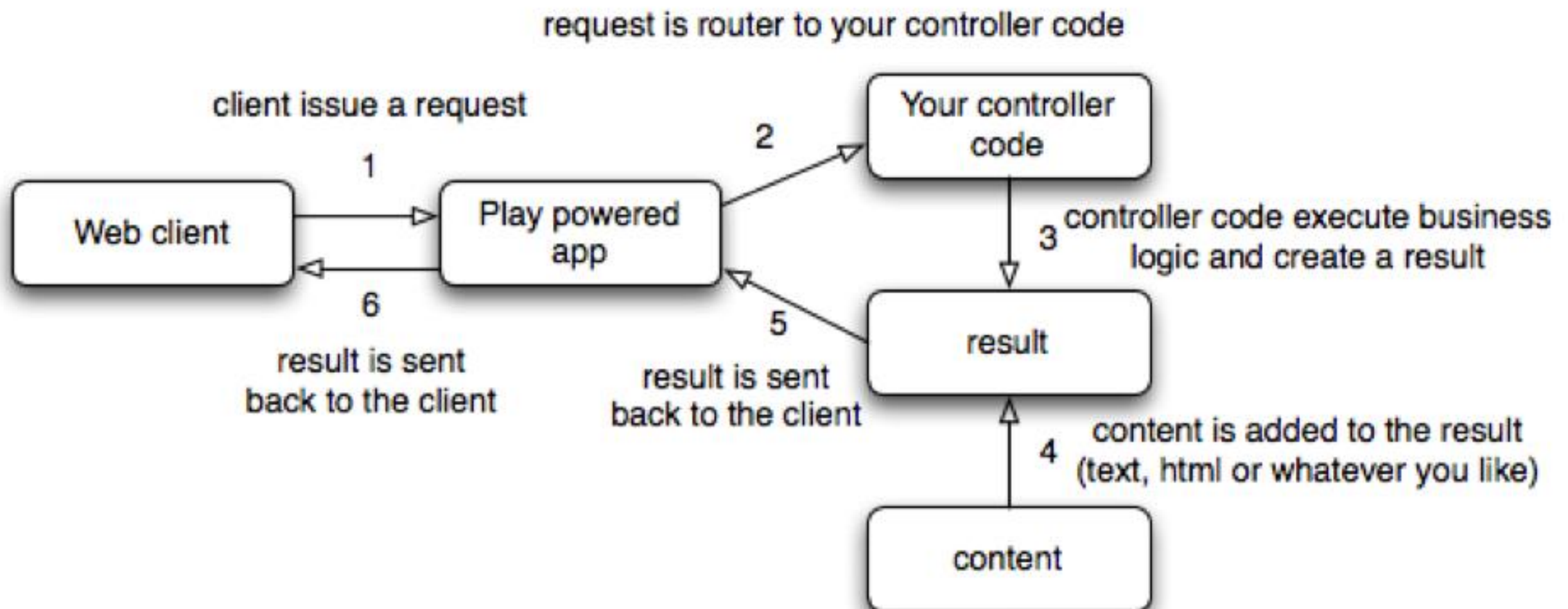
Controller Lifecycle



Controller Lifecycle (detail)



Controller Lifecycle with Content



Welcome

routes

GET / controllers.Accounts.index()

Accounts.java

```
public class Accounts extends Controller
{
    public Result index()
    {
        return ok(welcome_main.render());
    }
    ...
}
```

@()

```
@main("Welcome to Pacemaker") {
    @welcome_menu()
```

```
<section class="ui raised segment">
```

```
<div class="ui grid">
```

```
<aside class="six wide column">
```

```

```

```
</aside>
```

```
<article class="ten wide column">
```

```
<h1 class="ui header"> Sign up for Pacemaker </h1>
```

```
<p> No Bitcoins accepted! </p>
```

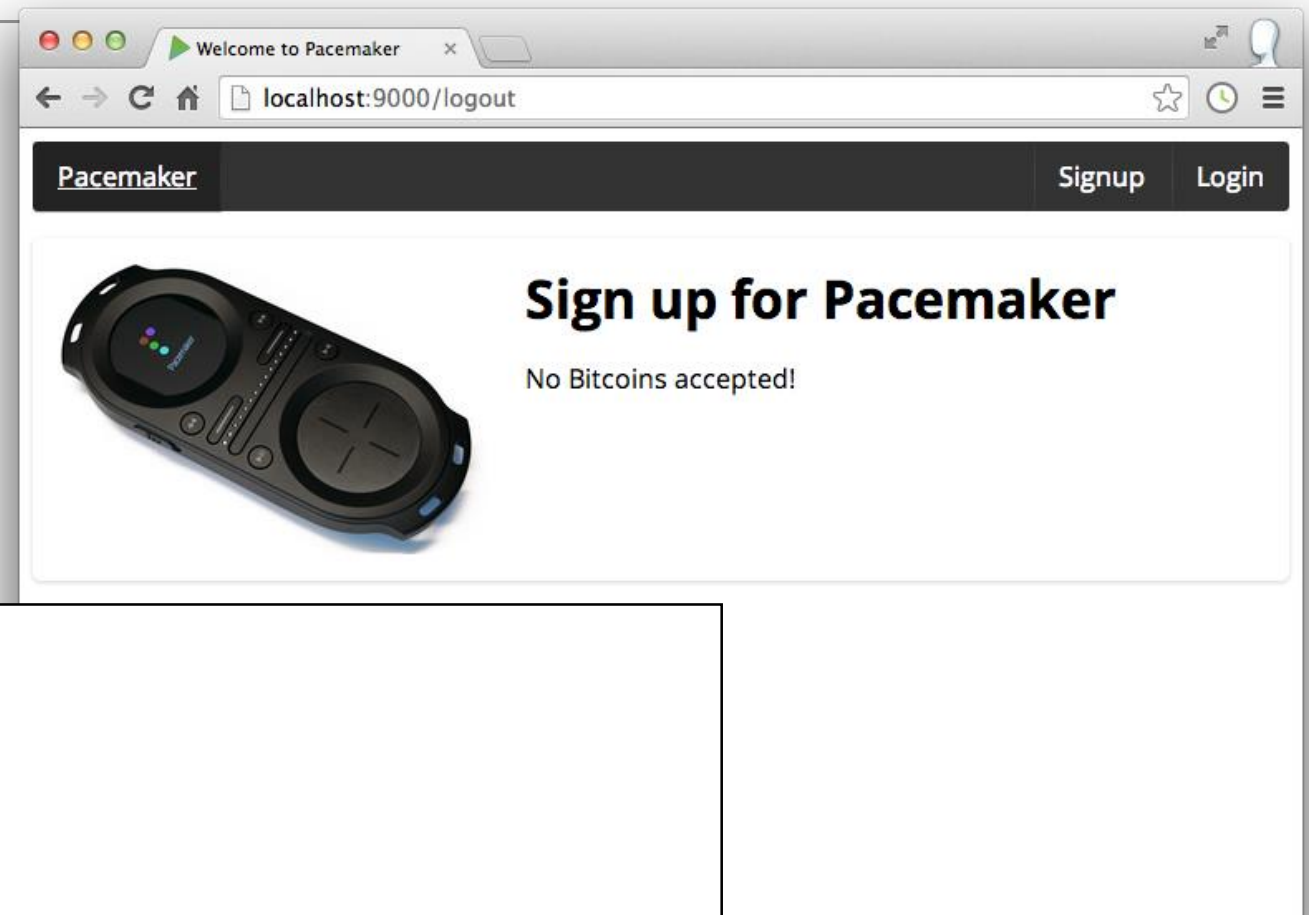
```
</article>
```

```
</div>
```

```
</section>
```

```
}
```

welcome_main.scala.html



templating

Entire view is
inserted into
@content
section of page

```
@(title: String)(content: Html)
<!DOCTYPE html>
<html>
  <head>
    <title> @title</title>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0">

    <link rel="stylesheet" type="text/css" href="@routes.Assets.at("semantic/css/semantic.css")">
    <link rel="stylesheet" type="text/css" href="@routes.Assets.at("stylesheets/main.css")">
    <link href="http://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700|Open+Sans:400,700" rel="stylesheet">
    <link rel="shortcut icon" type="image/png" href="@routes.Assets.at("images/favicon.png")">

    <script src="@routes.Assets.at("javascripts/jquery-2.0.3.min.js")"></script>
    <script src="@routes.Assets.at("semantic/javascript/semantic.min.js")"></script>
  </head>

  <body>
    @content
  </body>
</html>
```

main.scala.html

```
@()

@main("Welcome to Pacemaker") {
  @welcome_menu()

  <section class="ui raised segment">
    <div class="ui grid">
      <aside class="six wide column">
        
      </aside>
      <article class="ten wide column">
        <h1 class="ui header"> Sign up for Pacemaker </h1>
        <p> No Bitcoins accepted! </p>
      </article>
    </div>
  </section>
}
```

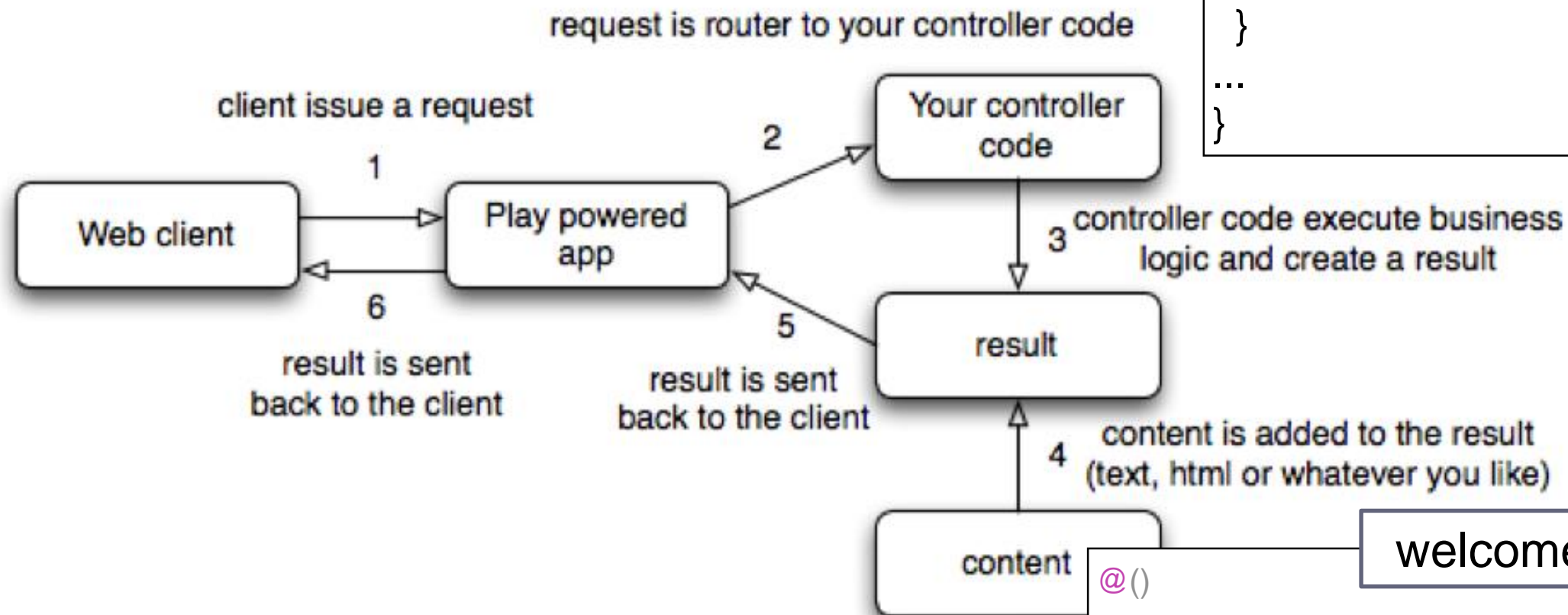
welcome_main.scala.html

@main implies
that
main.scala.html
will define the
structure of the
generated page

GET / controllers.Accounts.index()

Accounts.java

```
public class Accounts extends Controller
{
    public Result index()
    {
        return ok(welcome_main.render());
    }
    ...
}
```



welcome_main.scala.html

@()

```
@main("Welcome to Pacemaker") {
    @welcome_menu()
```

```
<section class="ui raised segment">
```

```
<div class="ui grid">
```

```
<aside class="six wide column">
```

```

```

```
</aside>
```

```
<article class="ten wide column">
```

```
<h1 class="ui header"> Sign up for Pacemaker </h1>
```

```
<p> No Bitcoins accepted! </p>
```

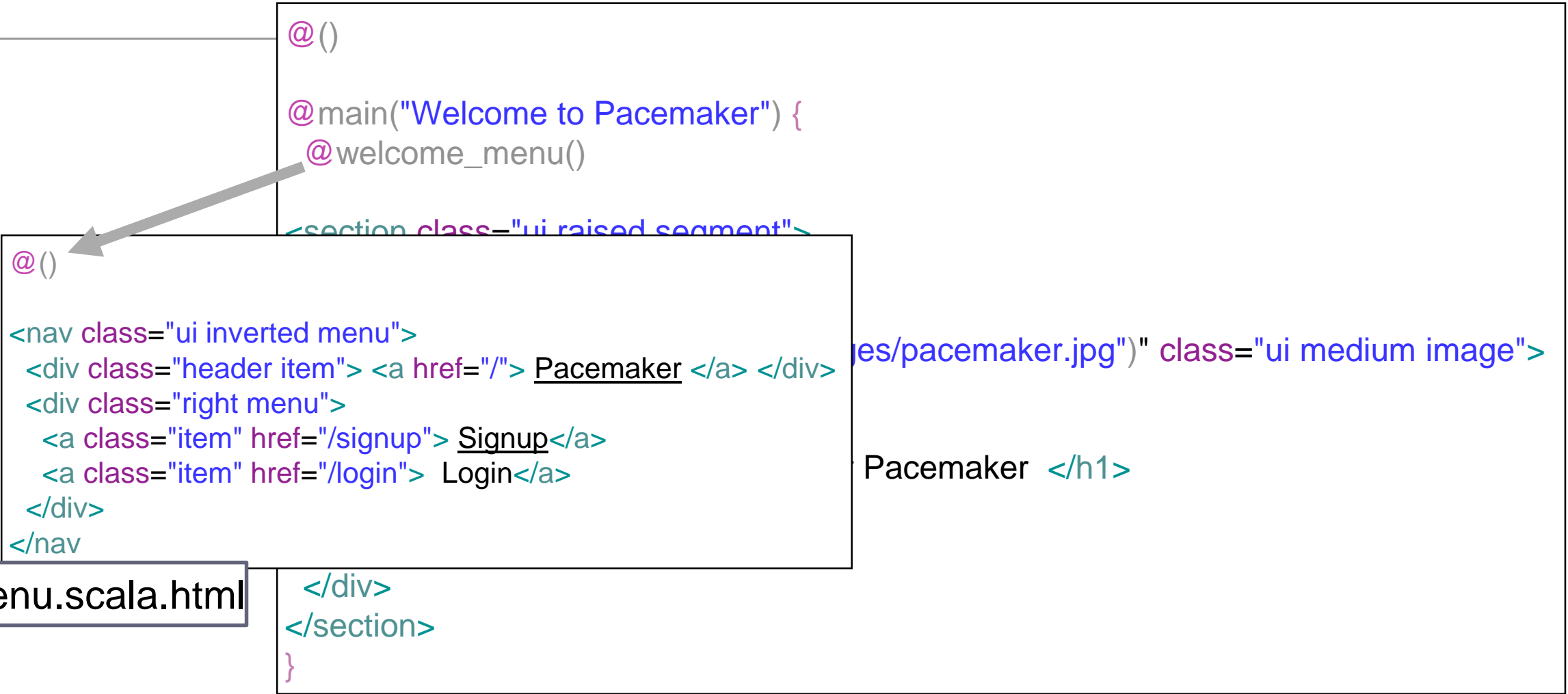
```
</article>
```

```
</div>
```

```
</section>
```

```
}
```


Includes



welcome_menu.scala.html

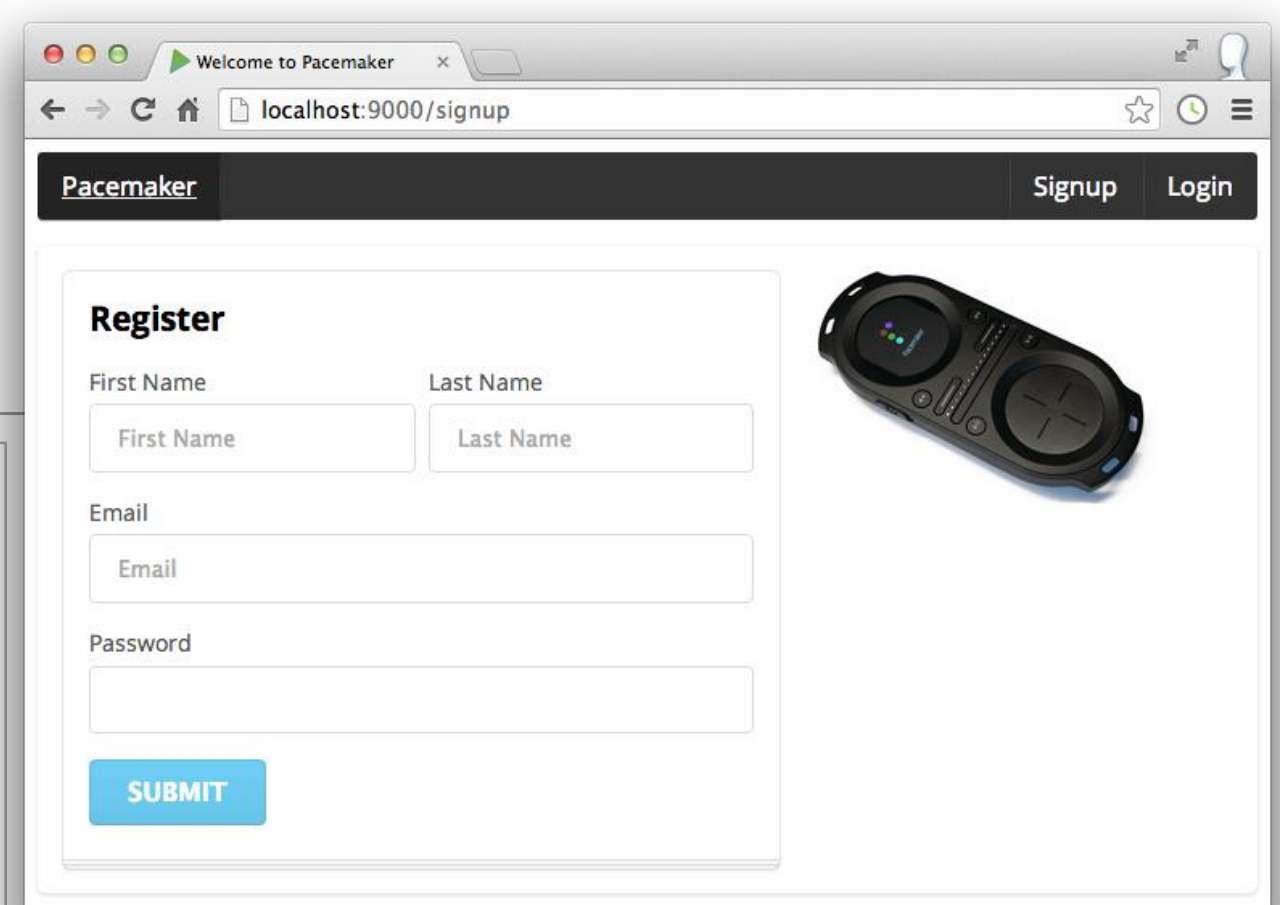
Pacemaker

Signup

Login

Signup

```
@()  
  
@main("Welcome to Pacemaker") {  
  @welcome_menu()  
  
  <section class="ui raised segment">  
    <div class="ui grid">  
      <div class="ui ten wide column">  
        <div class="ui stacked fluid form segment">  
          <form action="/register" method="POST">  
            <h3 class="ui header">Register</h3>  
            <div class="two fields">  
              <div class="field">  
                <label>First Name</label>  
                <input placeholder="First Name" type="text" name="firstname">  
              </div>  
              <div class="field">  
                <label>Last Name</label>  
                <input placeholder="Last Name" type="text" name="lastname">  
              </div>  
            </div>  
            <div class="field">  
              <label>Email</label>  
              <input placeholder="Email" type="text" name="email">  
            </div>  
            <div class="field">  
              <label>Password</label>  
              <input type="password" name="password">  
            </div>  
            <button class="ui blue submit button">Submit</button>  
          </form>  
        </div>  
      </div>  
      <aside class="ui five wide column">  
          
      </aside>  
    </div>  
  </section>  
}
```



GET /signup controllers.Accounts.signup()

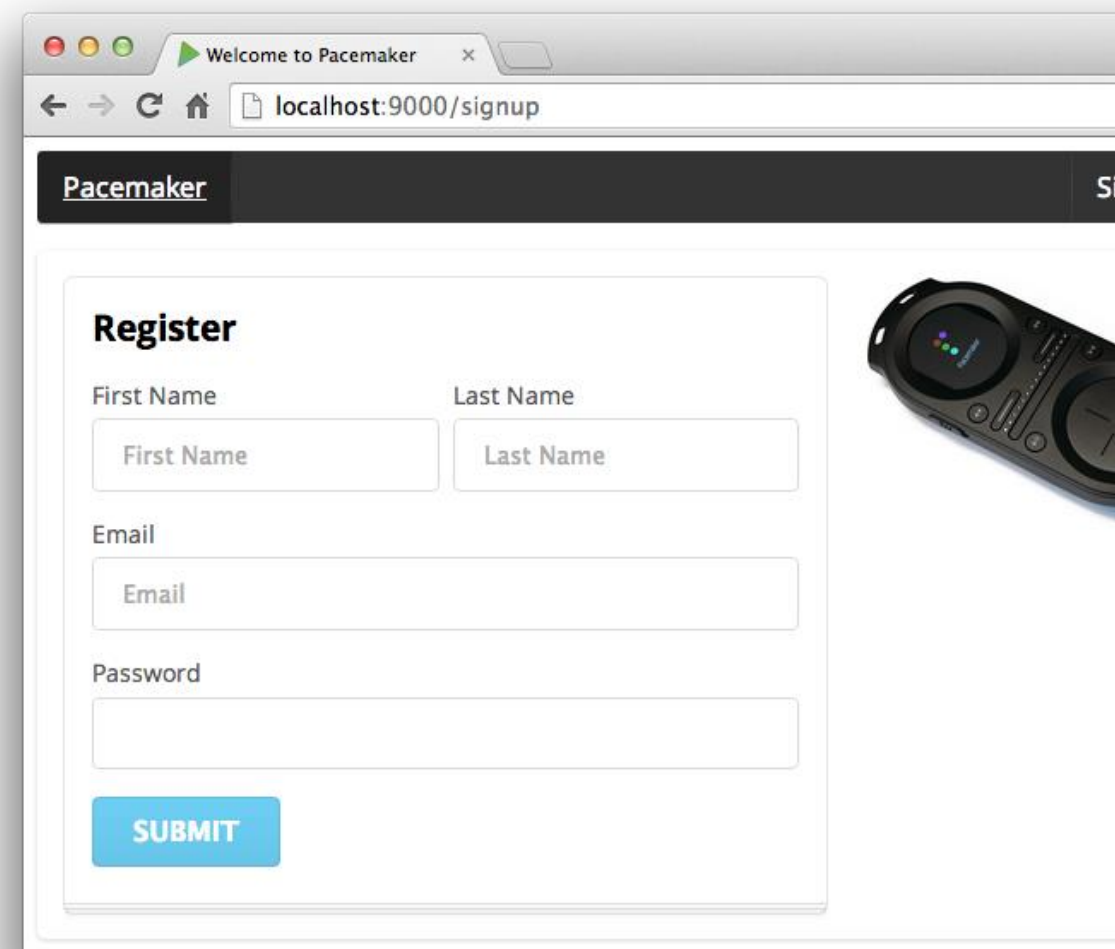
```
public Result signup()  
{  
  return ok(accounts_signup.render());  
}
```

Signup

GET /signup controllers.Accounts.signup()

```
<form action="/register" method="POST">
  <h3 class="ui header">Register</h3>
  <div class="two fields">
    <div class="field">
      <label>First Name</label>
      <input placeholder="First Name" type="text" name="firstname" >
    </div>
    <div class="field">
      <label>Last Name</label>
      <input placeholder="Last Name" type="text" name="lastname">
    </div>
  </div>
  <div class="field">
    <label>Email</label>
    <input placeholder="Email" type="text" name="email">
  </div>
  <div class="field">
    <label>Password</label>
    <input type="password" name="password" >
  </div>
  <button class="ui blue submit button">Submit</button>
</form>
```

accounts_signup.scala.html



The screenshot shows a web browser window with the title 'Welcome to Pacemaker' and the address bar displaying 'localhost:9000/signup'. The page content includes a header 'Pacemaker' and a registration form titled 'Register'. The form contains four input fields: 'First Name', 'Last Name', 'Email', and 'Password'. The 'First Name' and 'Last Name' fields are grouped together. Below the 'Email' field is a 'SUBMIT' button. A small image of a Pacemaker device is visible on the right side of the form.

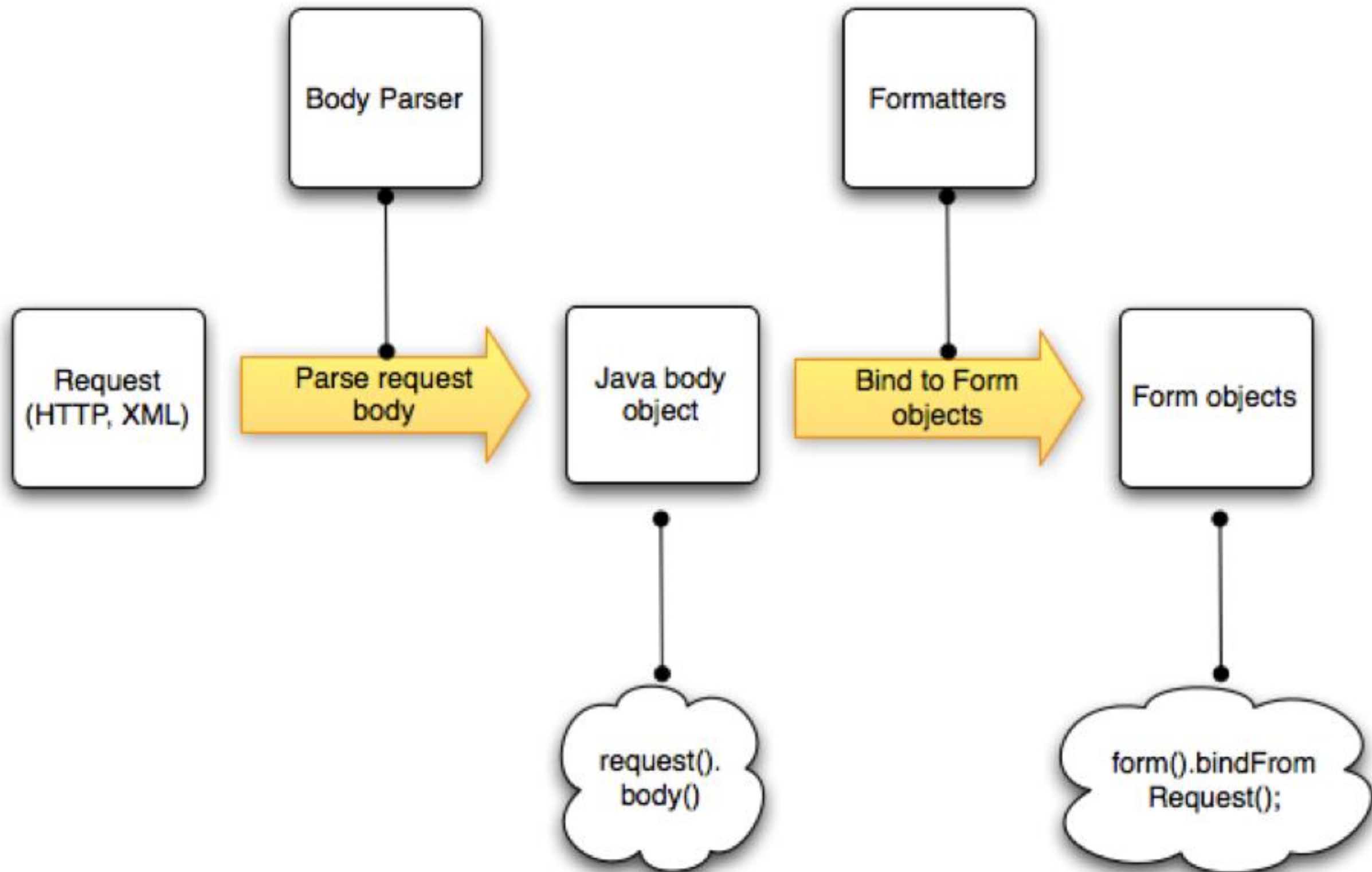
```
public Result signup()
{
  return ok(accounts_signup.render());
}
```

Signup

```
public class Accounts extends Controller
{
    private static Form<User> userForm;
    private static Form<User> loginForm;

    //...
    public Result register()
    {
        Form<User> boundForm = userForm.bindFromRequest();
        if(loginForm.hasErrors())
        {
            return badRequest(accounts_login.render());
        }
        else
        {
            User user = boundForm.get();
            Logger.info ("User = " + user.toString());
            user.save();
            return ok(welcome_main.render());
        }
    }
}

//...
```



Signup Form Processing

- Recover named form input items from request.
- Extract these elements into a Java object

```
public class Accounts extends Controller
{
    private static Form<User> userForm;
    private static Form<User> loginForm;

    //...
    public Result register()
    {
        Form<User> boundForm = userForm.bindFromRequest();
        if(loginForm.hasErrors())
        {
            return badRequest(accounts_login.render());
        }
        else
        {
            User user = boundForm.get();
            Logger.info ("User = " + user.toString());
            user.save();
            return ok(welcome_main.render());
        }
    }
    //...
}
```

GET /login

controllers.Accounts.login()

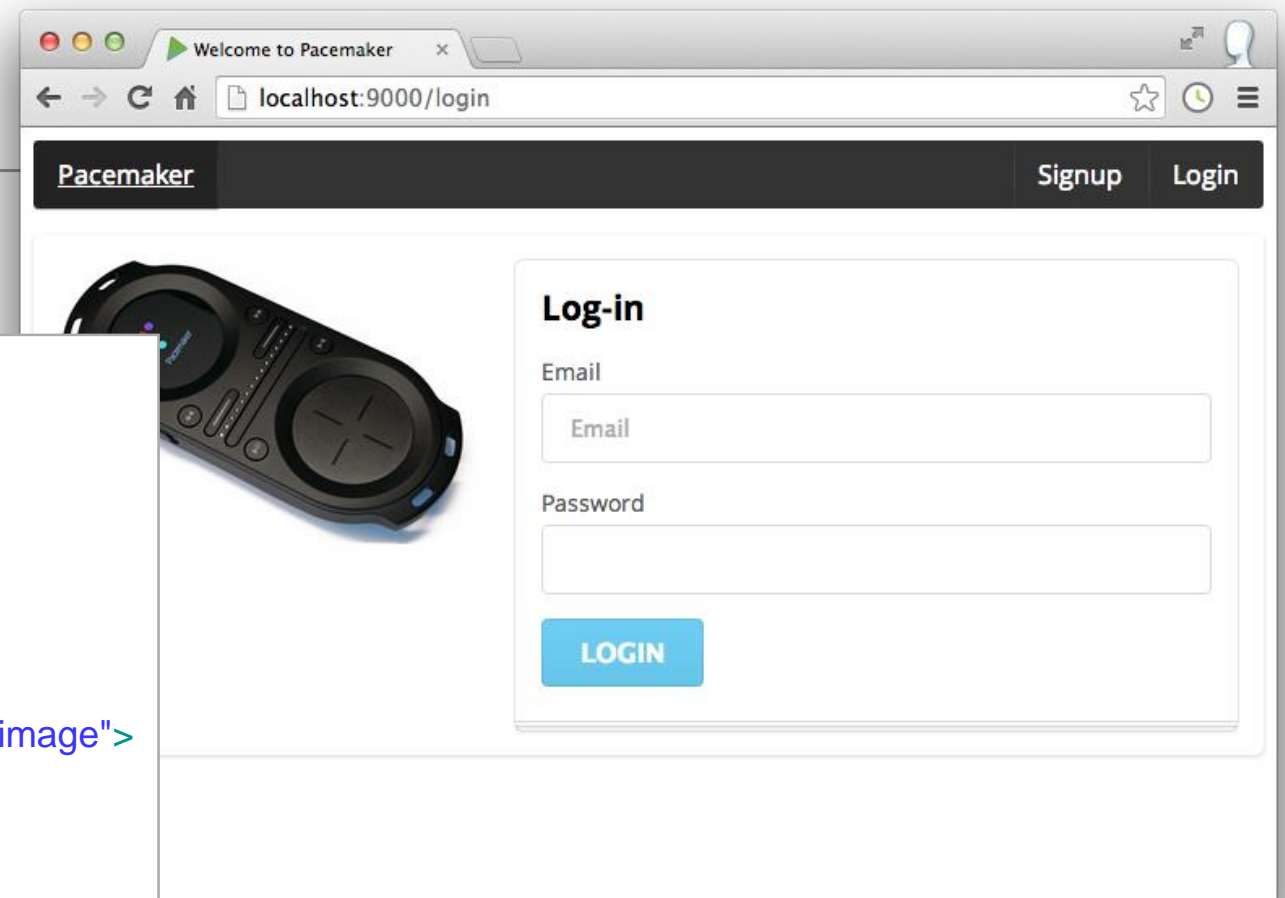
Login

```
@()

@main("Welcome to Pacemaker") {
  @welcome_menu()

  <section class="ui raised segment">
    <div class="ui grid">
      <aside class="ui six wide column">
        
      </aside>
      <div class="ui ten wide column fluid form">
        <div class="ui stacked segment">
          <form action="/authenticate" method="POST">
            <h3 class="ui header">Log-in</h3>
            <div class="field">
              <label>Email</label>
              <input placeholder="Email" type="text" name="email">
            </div>
            <div class="field">
              <label>Password</label>
              <input type="password" name="password">
            </div>
            <button class="ui blue submit button">Login</button>
          </form>
        </div>
      </div>
    </div>
  </section>
}
```

accounts_login.scala.html

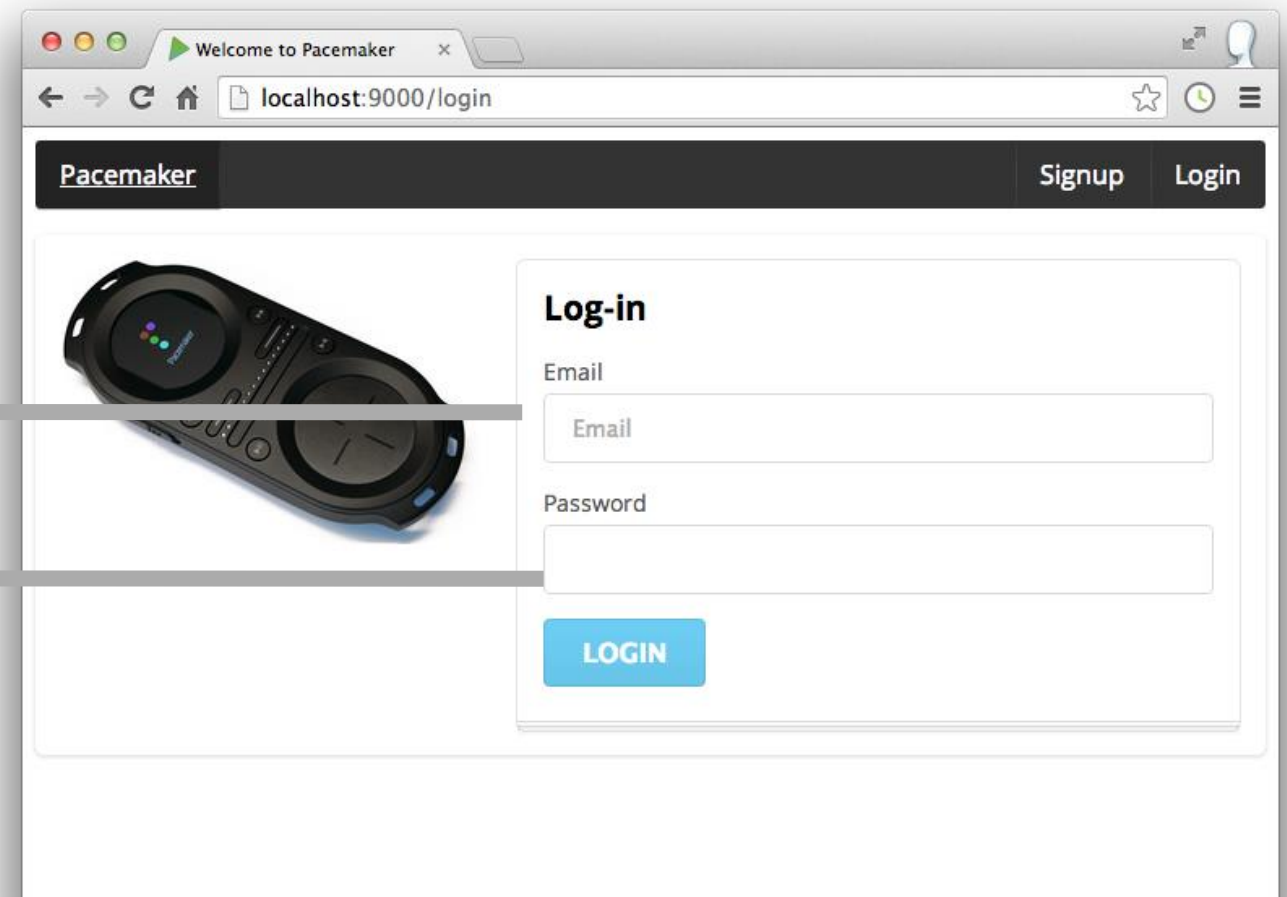


```
public Result login()
{
  return ok(accounts_login.render());
}
```

Login

```
<form action="/authenticate" method="POST">
  <h3 class="ui header">Log-in</h3>
  <div class="field">
    <label>Email</label>
    <input placeholder="Email" type="text" name="email">
  </div>
  <div class="field">
    <label>Password</label>
    <input type="password" name="password">
  </div>
  <button class="ui blue submit button">Login</button>
</form>
```

accounts_login.scala.html



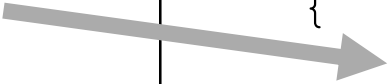
Sessions - login

- A globally accessible data structure into which we put details of 'current' user.
- Read this back in other controllers to determine appropriate content.

```
public class Accounts extends Controller
{
    private static Form<User> loginForm;
    // ...

    public Result authenticate()
    {
        Form<User> boundForm = loginForm.bindFromRequest();

        if (loginForm.hasErrors())
        {
            return badRequest(accounts_login.render());
        }
        else
        {
            session("email", boundForm.get().email);
            return redirect(routes.Dashboard.index());
        }
    }
    // ...
}
```



- Not checking if user is valid!
- Should compare password/email with database, and only allow in of valid user credential presented.

Sessions - Logout

- Destroy the session.
- Redirect to Welcome page.

```
public Result logout()
{
    session().clear();
    return ok(welcome_main.render());
}
```

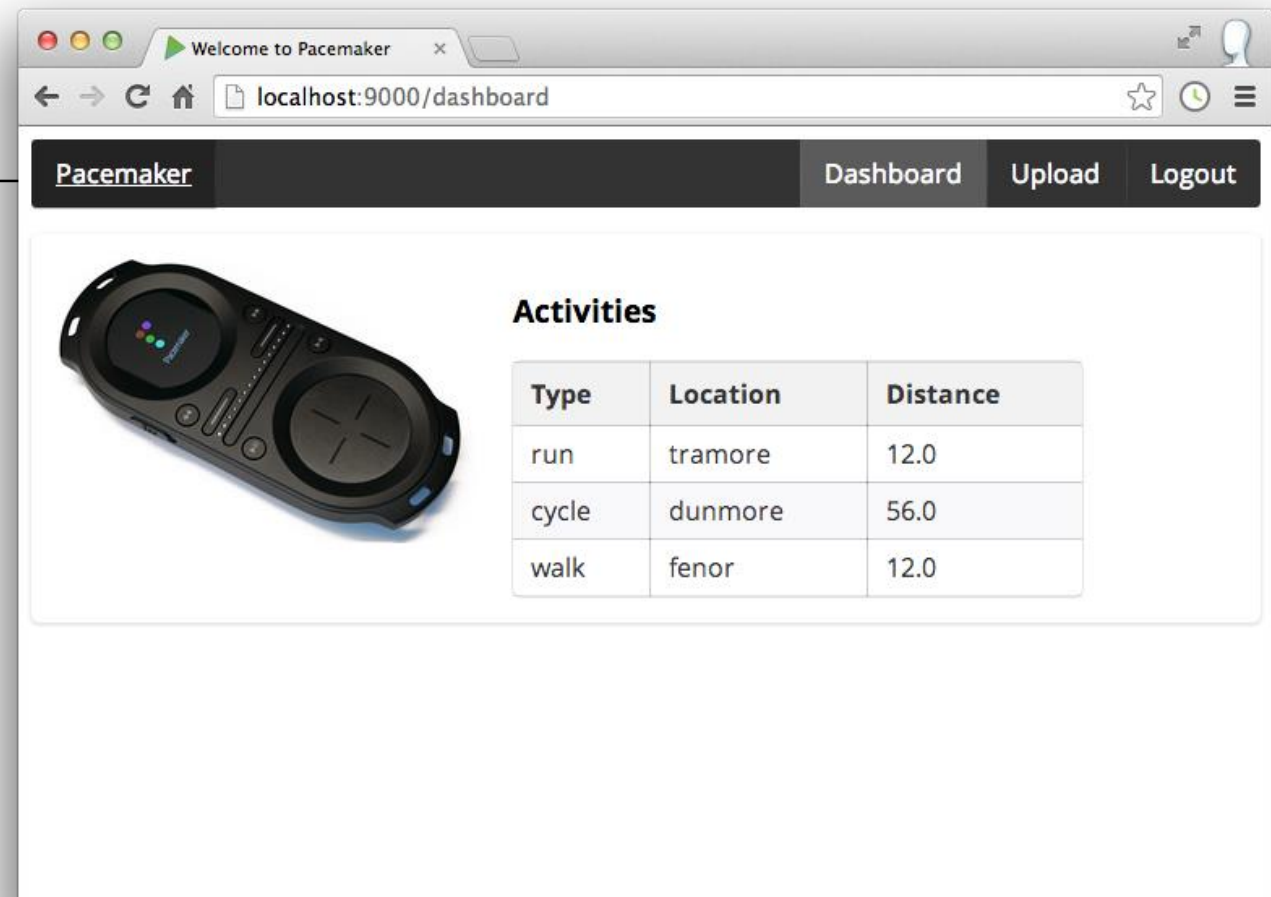
Dashboard

```
@(activities: List[Activity])
```

```
@main("Welcome to Pacemaker") {
```

```
<nav class="ui inverted menu">
  <div class="header item"> <a href="/"> Pacemaker </a> </div>
  <div class="right menu">
    <a class="active item" href="/dashboard"> Dashboard</a>
    <a class="item" href="/upload"> Upload</a>
    <a class="item" href="/logout"> Logout</a>
  </div>
</nav>
```

```
<section class="ui raised segment">
  <div class="ui grid">
    <aside class="six wide column">
      
    </aside>
    <article class="eight wide column">
      <h3> <class="ui header"> Activities </h3>
      <table class="ui celled table segment">
        <thead>
          <tr>
            <th>Type</th>
            <th>Location</th>
            <th>Distance</th>
          </tr>
        </thead>
        <tbody>
          @for(i <- 0 until activities.size) {
            <tr>
              <td> @activities(i).kind </td> <td> @activities(i).location </td> <td> @activities(i).distance </td>
            </tr>
          }
        </tbody>
      </table>
    </article>
  </div>
</section>
}
```



GET /dashboard controllers.Dashboard.index()

dashboard_main.scala.html

Dashboard

GET /dashboard
GET /upload
POST /submitactivity

controllers.Dashboard.index()
controllers.Dashboard.uploadActivityForm()
controllers.Dashboard.submitActivity()

```
public class Dashboard extends Controller
{
    public Result index() {
        String email = session().get("email");
        User user = User.findByEmail(email);
        return ok(dashboard_main.render(user.activities));
    }

    public Result uploadActivityForm() {
        return ok(dashboard_uploadactivity.render());
    }

    public Result submitActivity() {
        Form<Activity> boundForm = Form.form(Activity.class).bindFromRequest();
        Activity activity = boundForm.get();

        if(boundForm.hasErrors()) {
            return badRequest();
        }

        String email = session().get("email");
        User user = User.findByEmail(email);
        user.activities.add(activity);
        user.save();
        return redirect (routes.Dashboard.index());
    }
}
```

Dashboard

- Activities list sent to view.
- Scala for loop to iterate over this list, and present in a table.

Activities

Type	Location	Distance
run	tramore	12.0
cycle	dunmore	56.0
walk	fenor	12.0

```
public class Dashboard extends Controller
{
  //...
  public Result index()
  {
    String email = session().get("email");
    User user = User.findByEmail(email);
    return ok(dashboard_main.render(user.activities));
  }
  //...
}
```

```
<table class="ui celled table segment">
  <thead>
    <tr>
      <th>Type</th>
      <th>Location</th>
      <th>Distance</th>
    </tr>
  </thead>
  <tbody>
    @for(i <- 0 until activities.size) {
      <tr>
        <td> @activities(i).kind </td> <td> @activities(i).location </td> <td> @activities(i).distance </td>
      </tr>
    }
  </tbody>
</table>
```

dashboard_main.scala.html

```

<form action="/submitactivity" method="POST">
  <h3 class="ui header">Enter Activity Details: </h3>
  <div class="field">
    <label>Type</label>
    <input type="text" name="kind">
  </div>
  <div class="field">
    <label>Location</label>
    <input type="text" name="location">
  </div>
  <div class="field">
    <label>Distance</label>
    <input type="number" name="distance">
  </div>
  <button class="ui blue submit button"> Upload </button>
</form>

```

Enter Activity Details:

Type

Location

Distance

dashboard_uploadactivity.scala.html

```

public class Dashboard extends Controller
{
  //...
  public Result submitActivity() {
    Form<Activity> boundForm
      = Form.form(Activity.class).bindFromRequest();
    Activity activity = boundForm.get();

    if (boundForm.hasErrors()) {
      return badRequest();
    }

    String email = session().get("email");
    User user = User.findByEmail(email);
    user.activities.add(activity);
    user.save();
    return redirect (routes.Dashboard.index());
  }
}

```

Upload Activity

Upload Activity

Acquire the Activity object

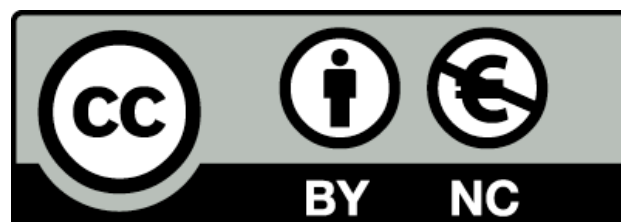
Ask the session who is 'logged in'

Add the new Activity to this users
activities list

Save the updates

Return back to dashboard

```
public Result submitActivity() {  
  
    Form<Activity> boundForm  
        = Form.form(Activity.class).bindFromRequest();  
    Activity activity = boundForm.get();  
  
    if (boundForm.hasErrors()) {  
        return badRequest();  
    }  
  
    String email = session().get("email");  
    User user = User.findByEmail(email);  
  
    user.activities.add(activity);  
  
    user.save();  
  
    return redirect (routes.Dashboard.index());  
}  
}
```



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