Web Development

Produced by

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eLearning
support unit

Play: Routes, Controller and Views

Lab 06: Exercise - Active Tab

Lab 06: Exercise 1: Active Tab

If you look at the nav bar you will notice that there is no concept of an 'active' tab as such. i.e. user cannot clearly see which tab they have just selected.

The reason of this is that none of the `<li>` elements are have `class="ui active item"` (check the lab05-project to see what this looks like).

```html
<nav class="ui menu">
  <a class="ui active item" href="/home">Home</a>
  <a class="ui item" href="/members">Members</a>
  <a class="ui item" href="/profile">Profile</a>
  <a class="ui item" href="/login">Logout</a>
</nav>
```

See if you can make the necessary changes so that each menu item is activated appropriately.

Spacebook | **Home** | Members | Profile | Logout

Spacebook | Home | **Members** | Profile | Logout

Spacebook | Home | Members | **Profile** | Logout

Lab 06: Exercise 1 Solution

Currently, each page has an identical navigation bar - with none of the nav items marked active. We would to rework the navigation to fix this - i.e. have each navigation bar customised to each view.

views/Home/index.html

```html
<nav class="ui menu">
  <a class="ui active item" href="/home">Home</a>
  <a class="ui item" href="/members">Members</a>
  <a class="ui item" href="/profile">Profile</a>
  <a class="ui item" href="/login">Logout</a>
</nav>
```

views/Members/index.html

```html
<nav class="ui menu">
  <a class="ui item" href="/home">Home</a>
  <a class="ui active item" href="/members">Members</a>
  <a class="ui item" href="/profile">Profile</a>
  <a class="ui item" href="/login">Logout</a>
</nav>
```

views/Profile/index.html

```html
<nav class="ui menu">
  <a class="ui item" href="/home">Home</a>
  <a class="ui item" href="/members">Members</a>
  <a class="ui active item" href="/profile">Profile</a>
  <a class="ui item" href="/login">Logout</a>
</nav>
```
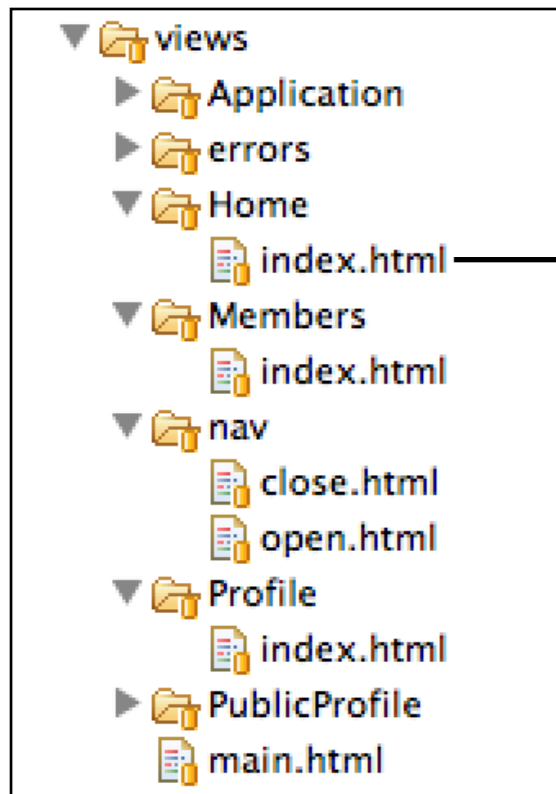
Lab 07 :

- Enhance the app to implement a simple UX based in static content

Home/index.html

```
#{extends 'main.html' /}
#{set title:'Home' /}

<nav class="ui menu">
  <a class="ui active item" href="/home">Home</a>
  <a class="ui item" href="/members">Members</a>
  <a class="ui item" href="/profile">Profile</a>
  <a class="ui item" href="/login">Logout</a>
</nav>

<section class="ui segment">
  <h2 class="ui header">SpaceBook: Homer's Home Page</h2>
  <div class="ui two column grid segment">
    <div class="ui row">
      <div class="ui column">
        <h2>Friends</h2>
        <div class="ui list">
          <div class="item">
            <i class="right triangle icon"></i> <a href="/publicprofile/marge">marge</a>, (<a href="drop
          </div>
          <div class="item">
            <i class="right triangle icon"></i> <a href="/publicprofile/lisa">lisa</a>, (<a href="drop/l
          </div>
        </div>
      </div>
```
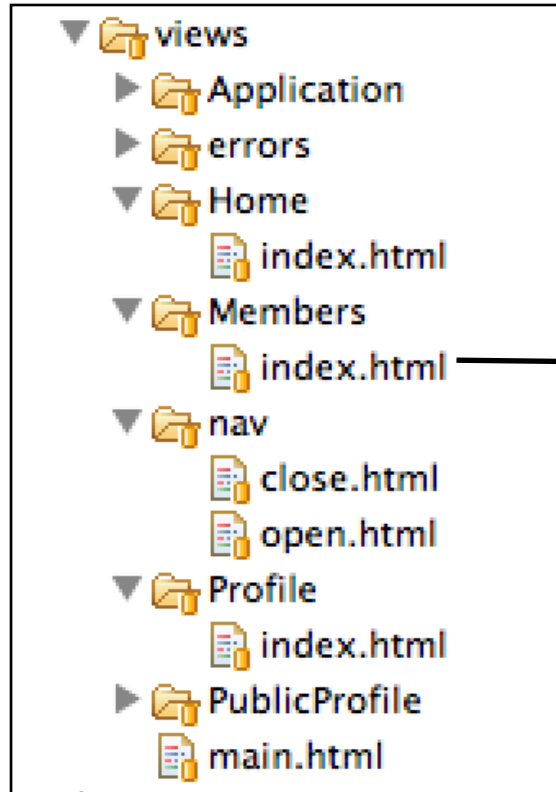
File tree:
- views
  - Application
  - errors
  - Home
    - index.html
  - Members
    - index.html
  - nav
    - close.html
    - open.html
  - Profile
    - index.html
  - PublicProfile
  - main.html

Rendered page:

Home   Members   Profile   Logout

you going to wor

SpaceBook: Homer's Home Page

Friends

▸ marge, (drop)

▸ lisa, (drop)

Messages

▸ marge says..."Hey there Homer, when are you going to work?"

▸ lisa says..."Move off the couch dad!"

Members/index.html

```
#{extends 'main.html' /}
#{set title:'Members' /}

<nav class="ui menu">
  <a class="ui item" href="/home">Home</a>
  <a class="ui active item" href="/members">Members</a>
  <a class="ui item" href="/profile">Profile</a>
  <a class="ui item" href="/login">Logout</a>
</nav>

<section class="ui segment">
  <h2 class="ui header">SpaceBook's Members</h2>
  <div class="ui list">
    <div class="item">
      <i class="right triangle icon"></i> marge [<a href="home.html">follow</a>]
    </div>
    <div class="item">
      <i class="right triangle icon"></i> bart [<a href="home.html">follow</a>]
    </div>
    <div class="item">
      <i class="right triangle icon"></i> lisa [<a href="home.html">follow</a>]
    </div>
    <div class="item">
      <i class="right triangle icon"></i> maggie [<a href="home.html">follow</a>]
    </div>
  </div>
</section>
```
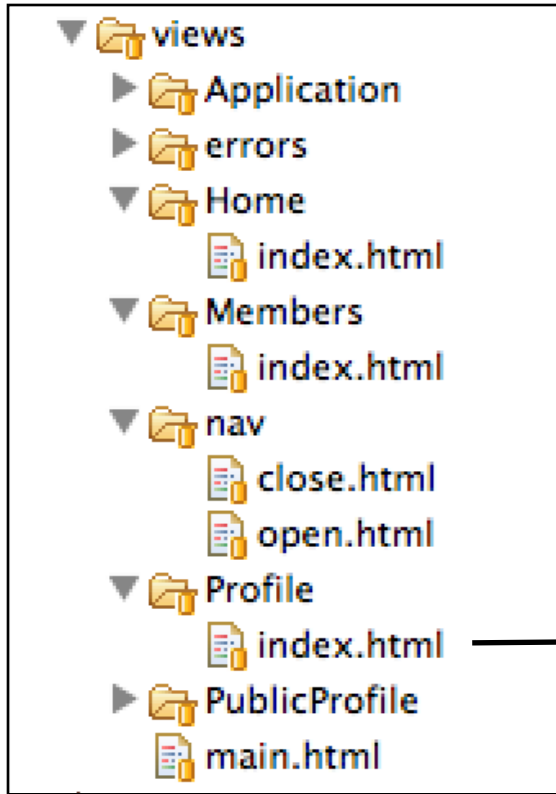
▼ 📁 views
　▶ 📁 Application
　▶ 📁 errors
　▼ 📁 Home
　　📄 index.html
　▼ 📁 Members
　　📄 index.html
　▼ 📁 nav
　　📄 close.html
　　📄 open.html
　▼ 📁 Profile
　　📄 index.html
　▶ 📁 PublicProfile
　📄 main.html

Home　Members　Profile　Logout

SpaceBook's Members

▶ marge [follow]

▶ bart [follow]

▶ lisa [follow]

▶ maggie [follow]

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Profile/index.html

```
#{extends 'main.html' /}
#{set title:'Profile' /}

<nav class="ui menu">
  <a class="ui item" href="/home">Home</a>
  <a class="ui item" href="/members">Members</a>
  <a class="ui active item" href="/profile">Profile</a>
  <a class="ui item" href="/login">Logout</a>
</nav>

<section class="ui segment">
  <h2 class="ui header">Homer's Profile</h2>
  <div class="ui two column grid segment">
    <div class="ui row">
      <div class="ui column">
        <p>
          <img src="images/homer.gif" />
        </p>
        <form action="homeprofile/upload" method="post" enctype="multipart/form-data">
          <input type="file" name="userfile" value="" /> <input type="submit" name="submit" value="up
        </form>
      </div>
      <div class="ui column form segment">
        <form action="homeprofile/changetext" method="post">
          <h3 class="ui inverted teal block header">Enter Status</h3>
          <textarea class="ui field" name="profiletext"> </textarea>
          <input class="ui blue button" type="submit" name="submit" value="Change" />
```
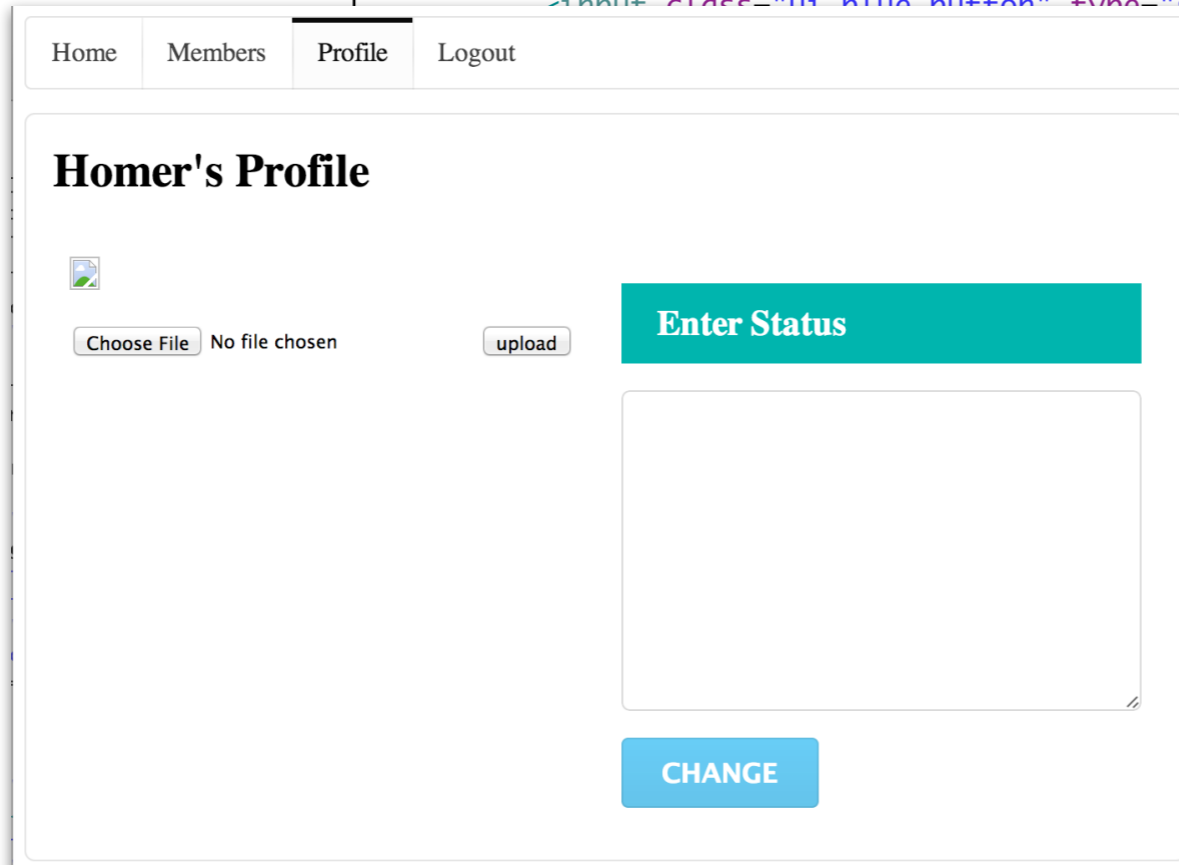
- views
  - Application
  - errors
  - Home
    - index.html
  - Members
    - index.html
  - nav
    - close.html
    - open.html
  - Profile
    - index.html
  - PublicProfile
  - main.html

| Home | Members | Profile | Logout |

Homer's Profile

Choose File No file chosen   upload

Enter Status

CHANGE

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| Home | Members | Profile | Logout |

SpaceBook: Homer's Home Page

Friends

▸ marge, (drop)

▸ lisa, (drop)

Messages

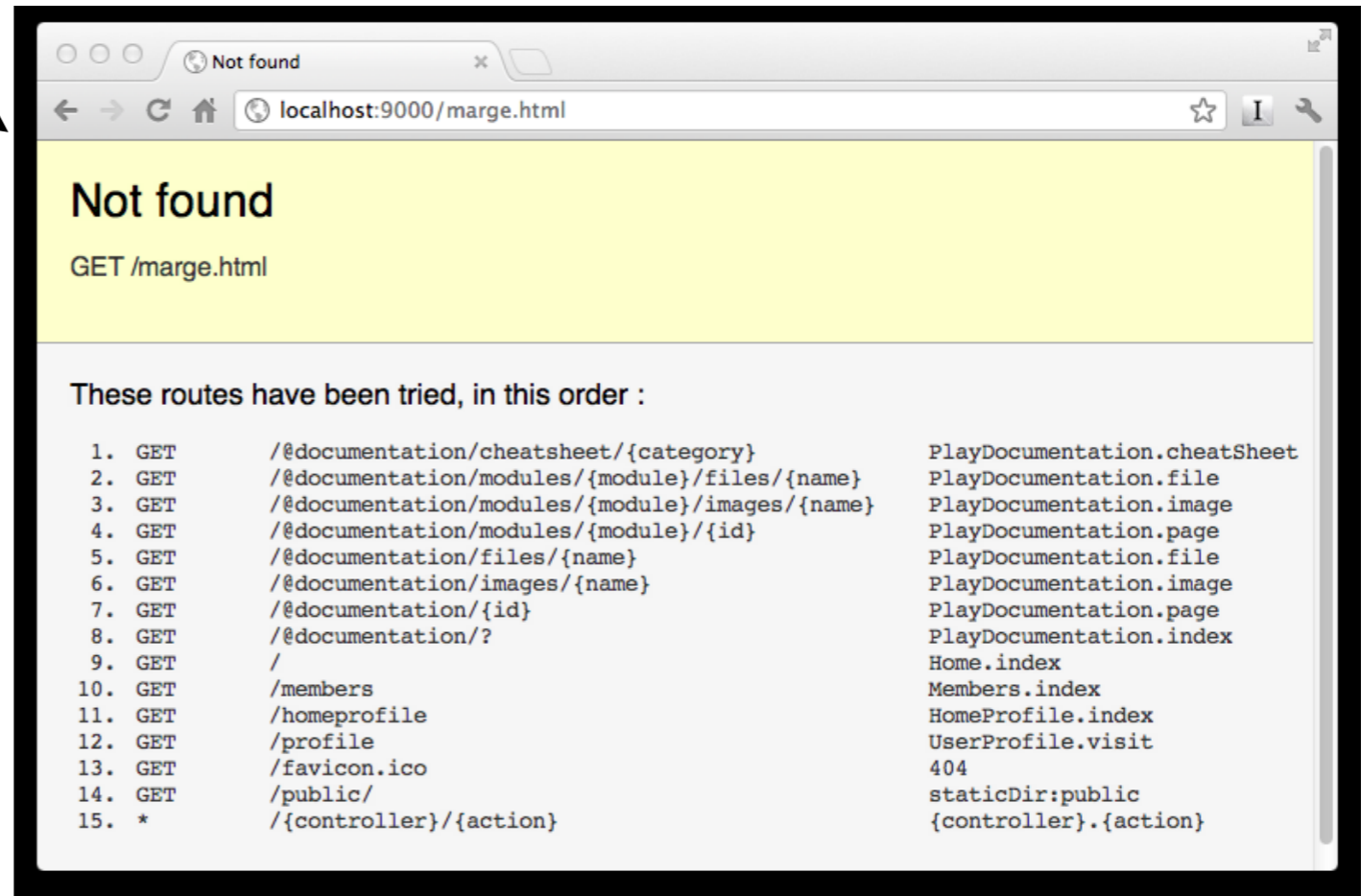▸ marge says..."Hey there Homer, when are you going to work?"

▸ lisa says..."Move off the couch dad!"

```html
<a href="marge.html">marge</a>, (<a href="drop/marge">drop</a>)
<a href="lisa.html">lisa</a>, (<a href="drop/lisa">drop</a>)
```

• Pressing 'marge' generates a routing error:

Profile

Replace static reference with 'route'

```html
<a href="marge.html">marge</a> (<a href="/drop/marge">drop</a>)
```

replace with

Home/index.html

```html
<a href="/userprofile">marge</a>, (<a href="/drop/marge">drop</a>)
```

which triggers routes lookup

```
GET      /userprofile                    UserProfile.index
```

conf/routes

which loads controller/action

```java
public class UserProfile extends Controller
{
  public static void index()
  {
    render();
  }
}
```

controllers/UserProfile.java

which renders template

```html
#{extends 'main.html' /}
#{set title:'Spacebook' /}

<nav class="ui menu">
  <a class="ui active item"
   href="/home">Back to Home</a>
</nav>

<p>
  Welcome to the Public Profile!
</p>
```
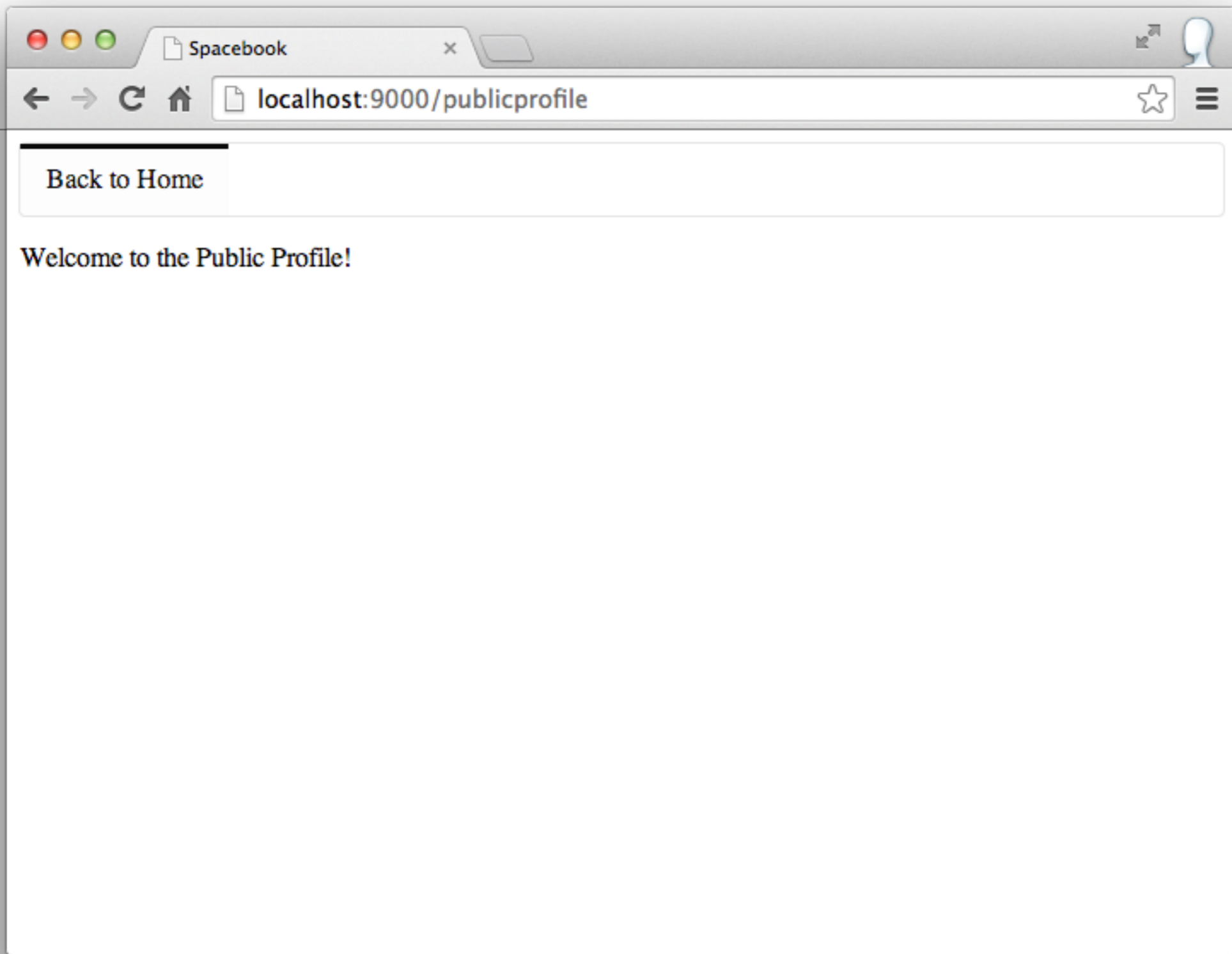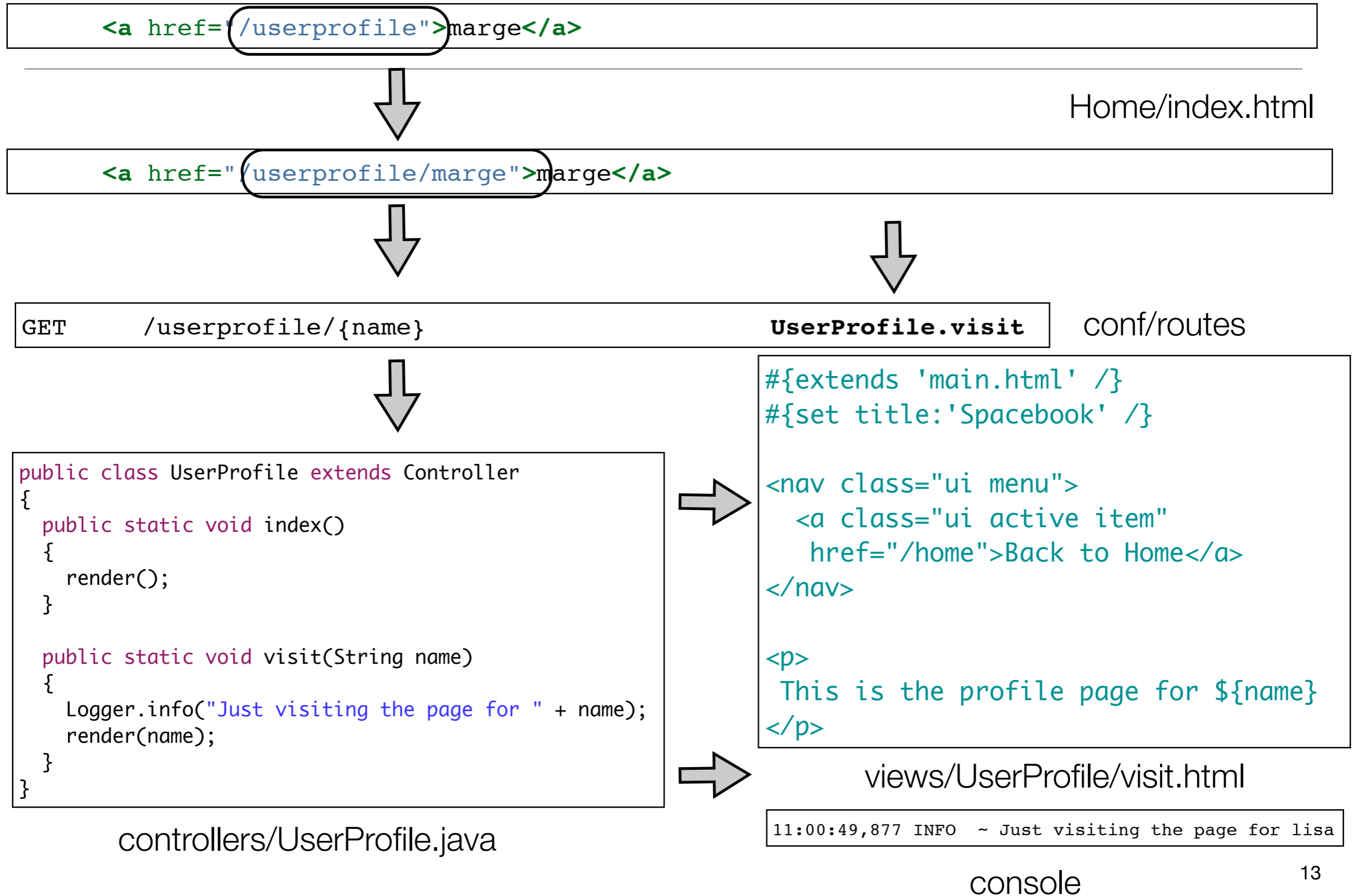
views/PublicProfile/index.html 11

localhost:9000/publicprofile

Back to Home

Welcome to the Public Profile!

Enhance 'route' with url segment

```html
<a href="/userprofile">marge</a>
```

Home/index.html

```html
<a href="/userprofile/marge">marge</a>
```

```
GET        /userprofile/{name}                    UserProfile.visit
```
conf/routes

```java
public class UserProfile extends Controller
{
  public static void index()
  {
    render();
  }

  public static void visit(String name)
  {
    Logger.info("Just visiting the page for " + name);
    render(name);
  }
}
```

controllers/UserProfile.java

```html
#{extends 'main.html' /}
#{set title:'Spacebook' /}

<nav class="ui menu">
  <a class="ui active item"
    href="/home">Back to Home</a>
</nav>


<p>
 This is the profile page for ${name}
</p>
```

views/UserProfile/visit.html

```
11:00:49,877 INFO  ~ Just visiting the page for lisa
```

console

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controllers/PublicProfile.java

```java
public class PublicProfile extends Controller
{
  public static void index()
  {
    render();
  }

  public static void visit(String name)
  {
    Logger.info("Just visiting the page for " + name);
    render(name);
  }
}
```

PublicProfile

views/PublicProfile/visit.html

```html
#{extends 'main.html' /}
#{set title:'Spacebook' /}

<nav class="ui menu">
  <a class="ui active item" href="/home">Back to Home</a>
</nav>

<section class="ui raised segment">
  <div class="ui small header"> ${name}'s Profile</div>
  <section class="ui  two column grid segment">
    <div class="row">
      <div class="column">
        <div class="ui medium image">
          <img src="/public/images/${name}.gif"/>
        </div>
      </div>
      <div class="column">
        <h2> Messages </h2>
        <ul
          <li>homer says..."What time is dinner?"</li>
          <li>lisa says..."Where is my saxaphone?"</li>
          <li>homer says..."Where are you?"</li>
        </ul>
      </div>
    </div>
  </section>
</section>
```

- The users name is passed as a parameter to the visit method.

- This name is then passed to the render method

- This name can then be used in the page via the ${name} varable

lisa's Profile

Messages

- homer says..."What time is dinner?"
- lisa says..."Where is my saxaphone?"
- homer says..."Where are you?"

controllers/PublicProfile.java

```java
public class PiublicProfile extends Controller
{
  public static void index()
  {
    render();
  }

  public static void visit(String name)
  {
    Logger.info("Just visiting the page for " + name);
    render(name);
  }
}
```

PublicProfile

views/PublicProfile/visit.html

```html
#{extends 'main.html' /}
#{set title:'Spacebook' /}

<nav class="ui menu">
  <a class="ui active item" href="/home">Back to Home</a>
</nav>

<section class="ui raised segment">
  <div class="ui small header"> ${name}'s Profile</div>
  <section class="ui  two column grid segment">
    <div class="row">
      <div class="column">
        <div class="ui medium image">
          <img src="/public/images/${name}.gif"/>
        </div>
      </div>
      <div class="column">
        <h2> Messages </h2>
        <ul>
          <li>homer says..."What time is dinner?"</li>
          <li>lisa says..."Where is my saxaphone?"</li>
          <li>homer says..."Where are you?"</li>
        </ul>
      </div>
    </div>
  </section>
</section>
```
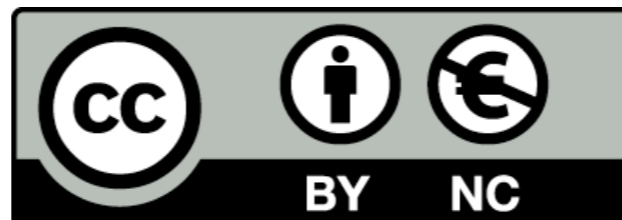

lisa.gif

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