Web Development

Produced by

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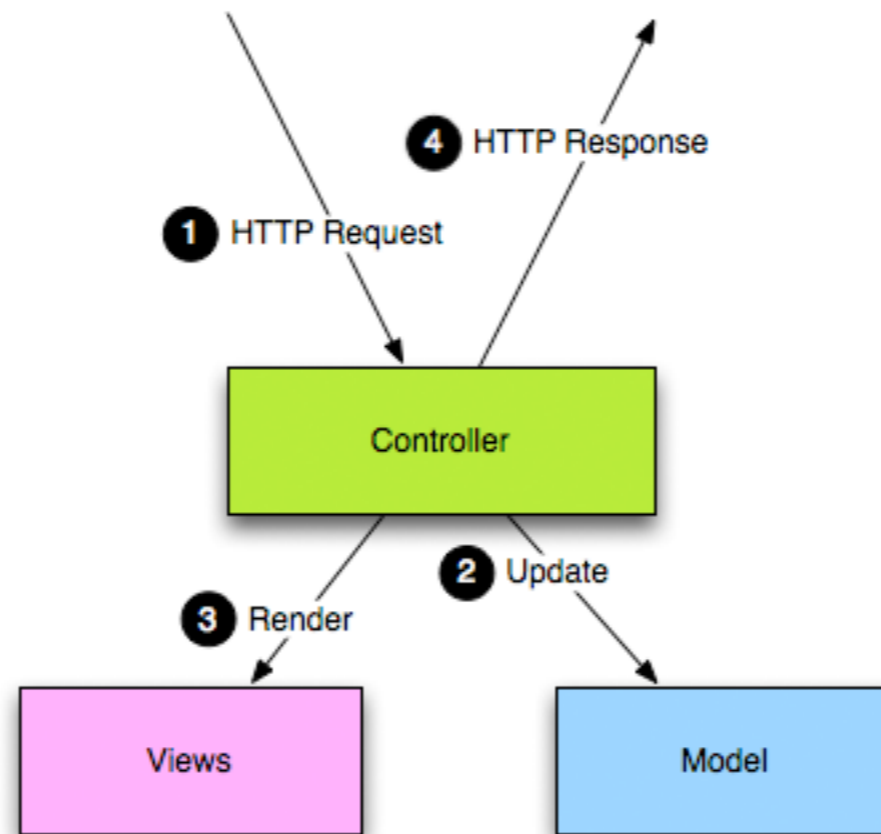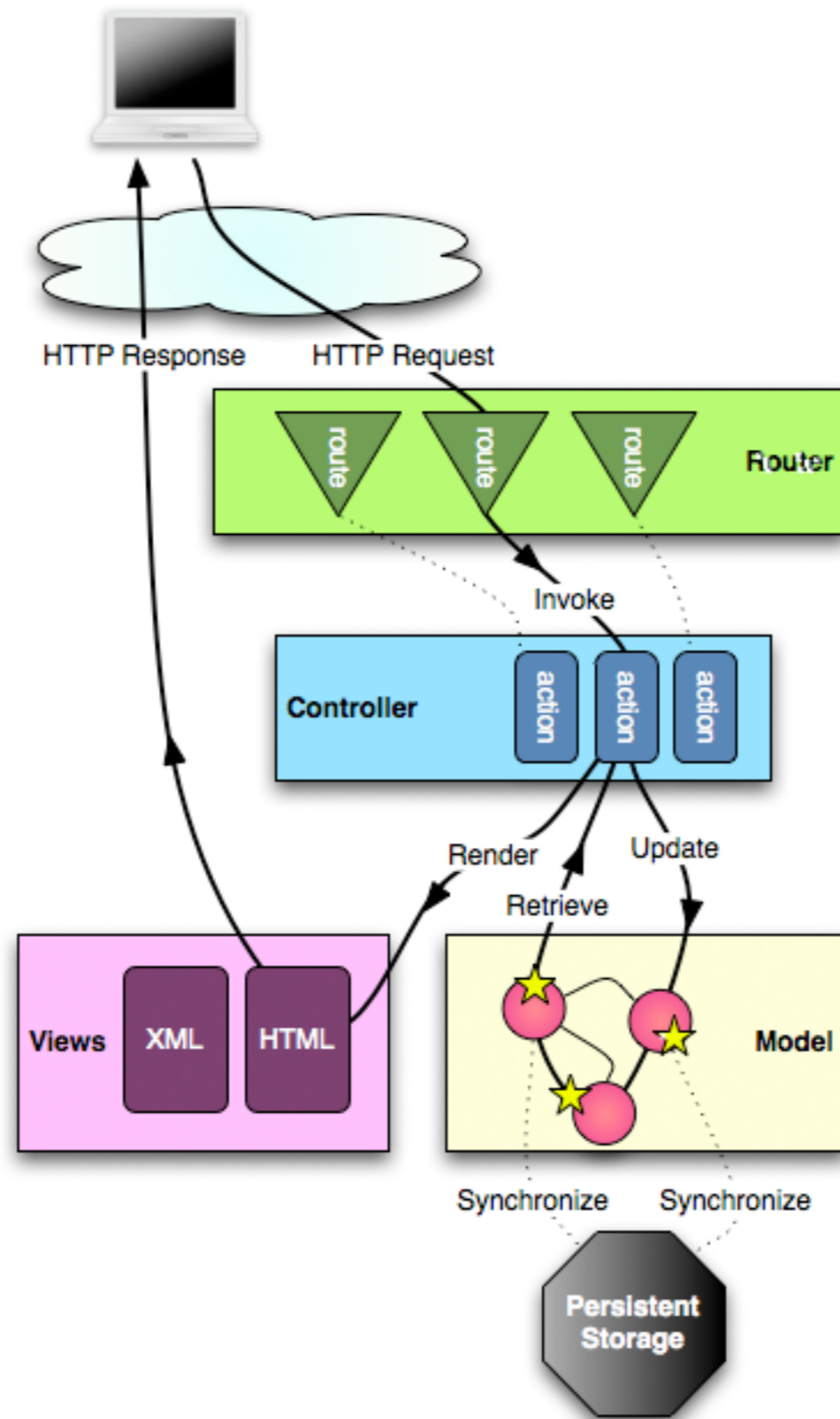http://www.wit.ie
http://elearning.wit.ie

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Lab10 Exercises

HTTP Request/Response Cycle

HTTP Response   HTTP Request

route   route   route   **Router**

Invoke

Controller   action   action   action

Render   Update

Retrieve

Views   XML   HTML   **Model**

Synchronize   Synchronize

Persistent Storage

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Exercise 1

- Change the Profile controller/view to display the currently logged in users full name (not just the first name).

```java
public class Profile extends Controller
{
  public static void index()
  {
    String userId = session.get("logged_in_userid");
    User user = User.findById(Long.parseLong(userId));
    String name = user.firstName;
    render(name);
  }
  //...
}
```

controllers/Profile.java

```html
...
  <h2>${name}'s Profile</h2>
...
```

views/Profile/index.html

Exercise 1: Solution

```java
public class Profile extends Controller
{
  public static void index()
  {
    String userId = session.get("logged_in_userid");
    User user = User.findById(Long.parseLong(userId));
    render(user);
  }
  //...
}
```

controllers/Profile.java

```html
...
<h2>${user.firstName}
    ${user.lastName}'s Profile</h2>
...
```

views/Profile/index.html

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Exercise 2

- In the user Profile view, see if you can figure out how to let the user see his/her email.

```
...
  <h2 class="ui header">${user.firstName} ${user.lastName}'s Profile </h2>
...
```

views/Profile/index.html

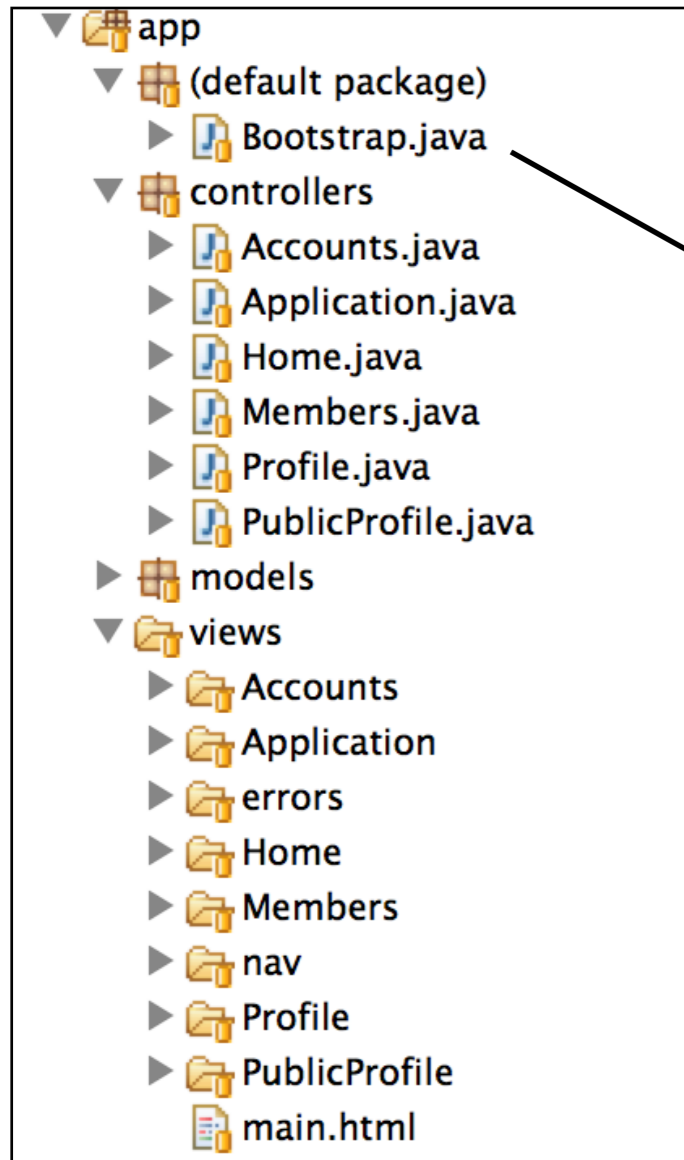# Exercise 2: Solution

```
...
  <h2 class="ui header">${user.firstName} ${user.lastName}'s Profile (${user.email})</h2>
...
```

views/Profile/index.html

Exercise 4

- Currently, every time we stop the application our database is cleared - and when we run again we have to register new users again. This can get tiresome and repetitive.

- Our framework comes with a simple mechanism for pre-loading our database if we want to hit the ground running with initial test data

Exercise 4: Solution

```
app
  (default package)
    Bootstrap.java
  controllers
    Accounts.java
    Application.java
    Home.java
    Members.java
    Profile.java
    PublicProfile.java
  models
  views
    Accounts
    Application
    errors
    Home
    Members
    nav
    Profile
    PublicProfile
    main.html
```

```java
import java.util.List;

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

import models.*;


@OnApplicationStart
public class Bootstrap extends Job
{
  public void doJob()
  {
    Fixtures.deleteDatabase();
    Fixtures.loadModels("data.yml");
  }
}
```
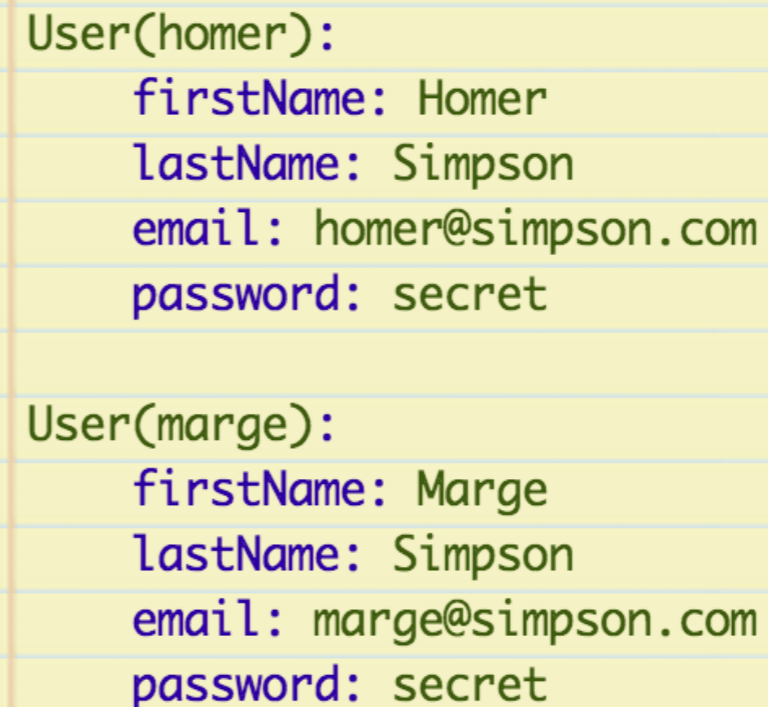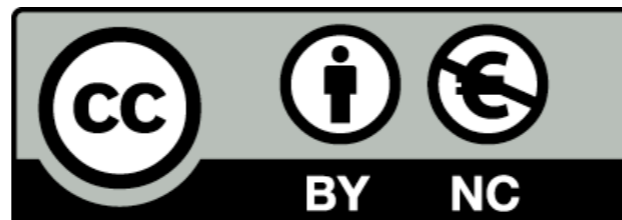
Exercise 4: Solution

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  }
}
```

```yaml
User(homer):
    firstName: Homer
    lastName: Simpson
    email: homer@simpson.com
    password: secret

User(marge):
    firstName: Marge
    lastName: Simpson
    email: marge@simpson.com
    password: secret
```

- On startup, database populated with these users

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