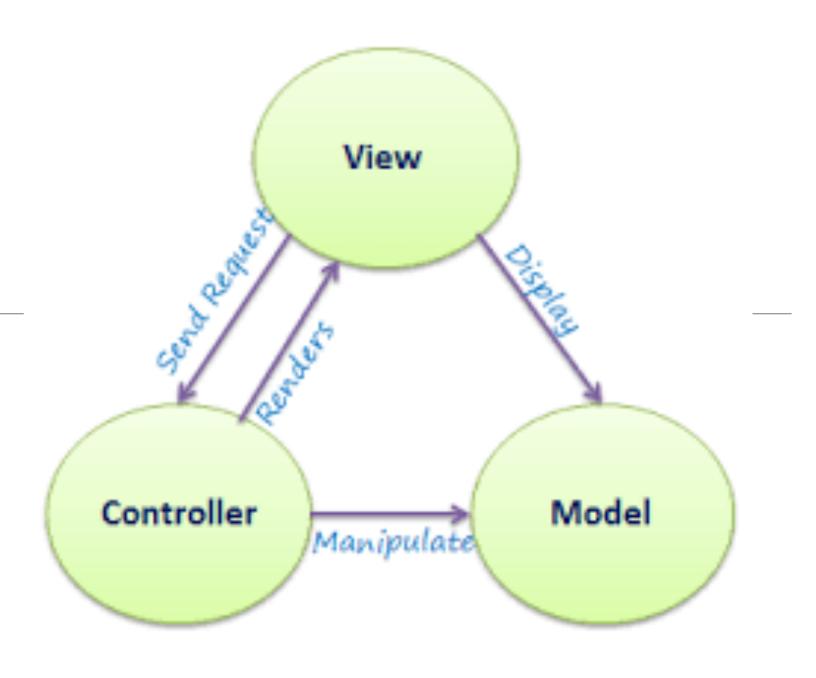
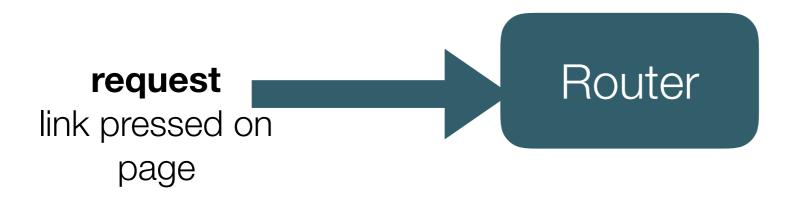
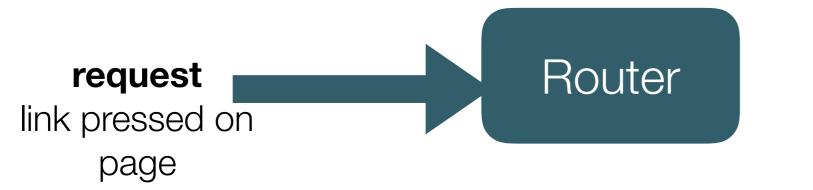
MVC



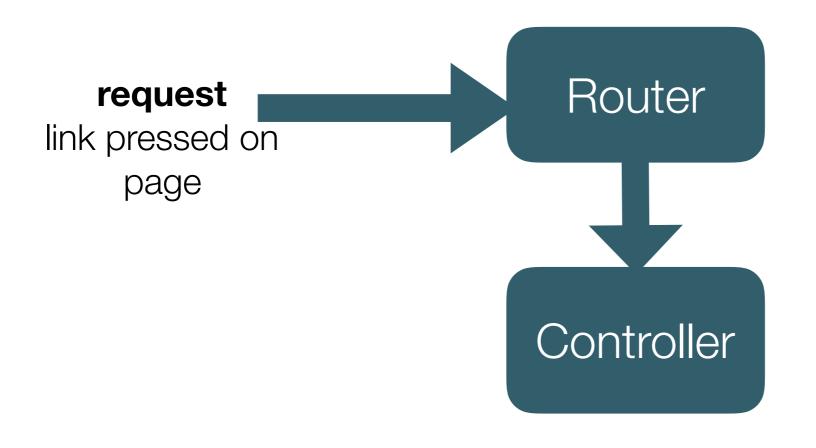
Request/Response Lifecycle

- 1. Request link pressed on page
- 2. Router find matching controller object
- 3. Controller method invoked to handle request
- 4. **View** data sent from controller to view to construct response
- 5. **Response** complete page rendered into browser

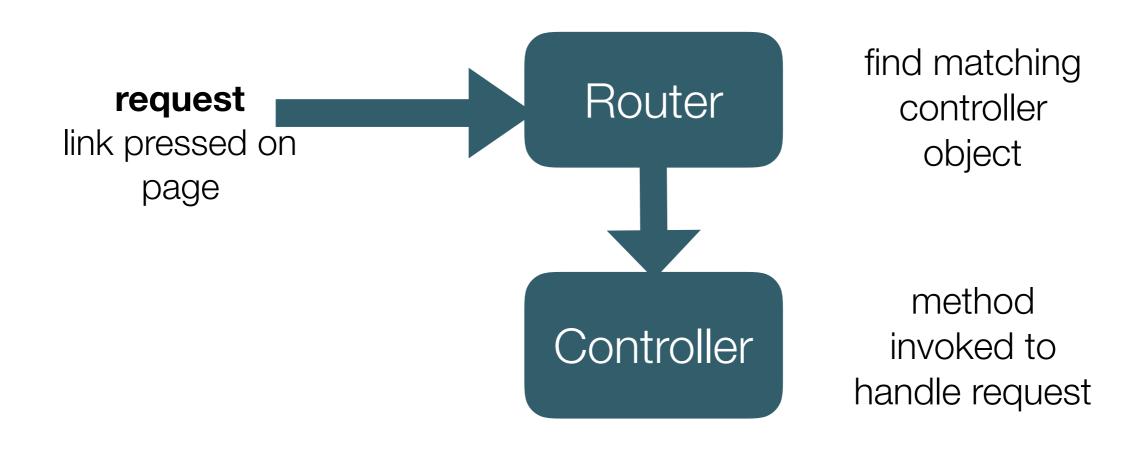


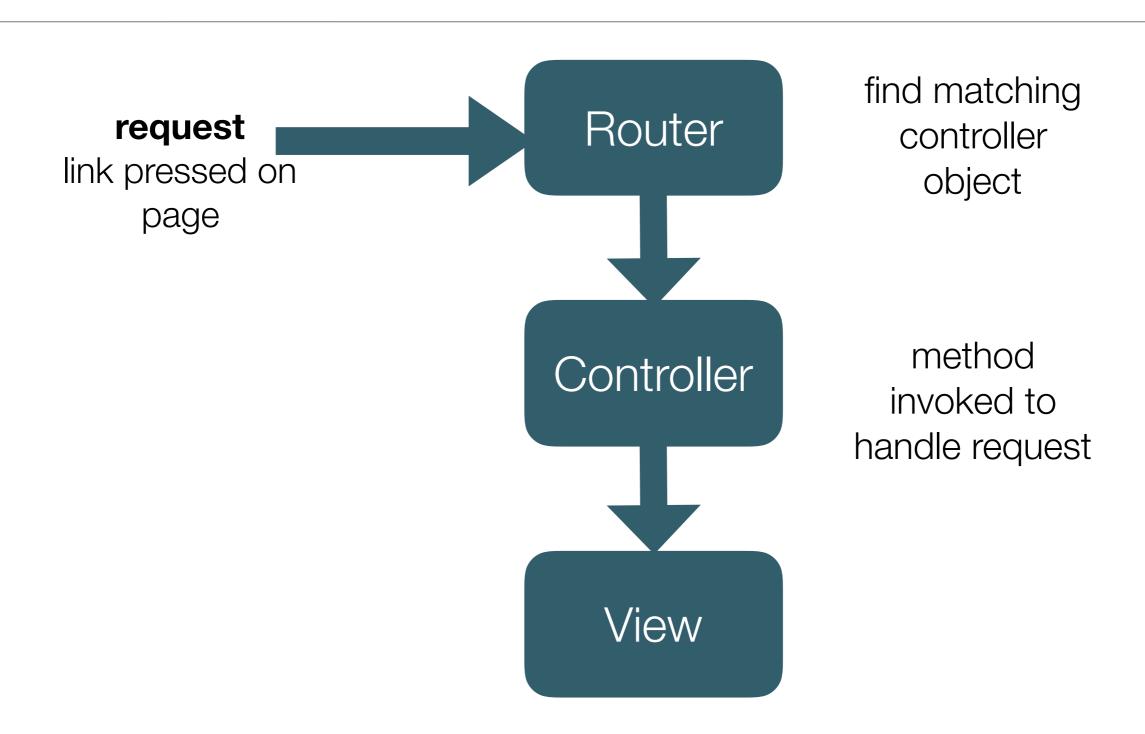


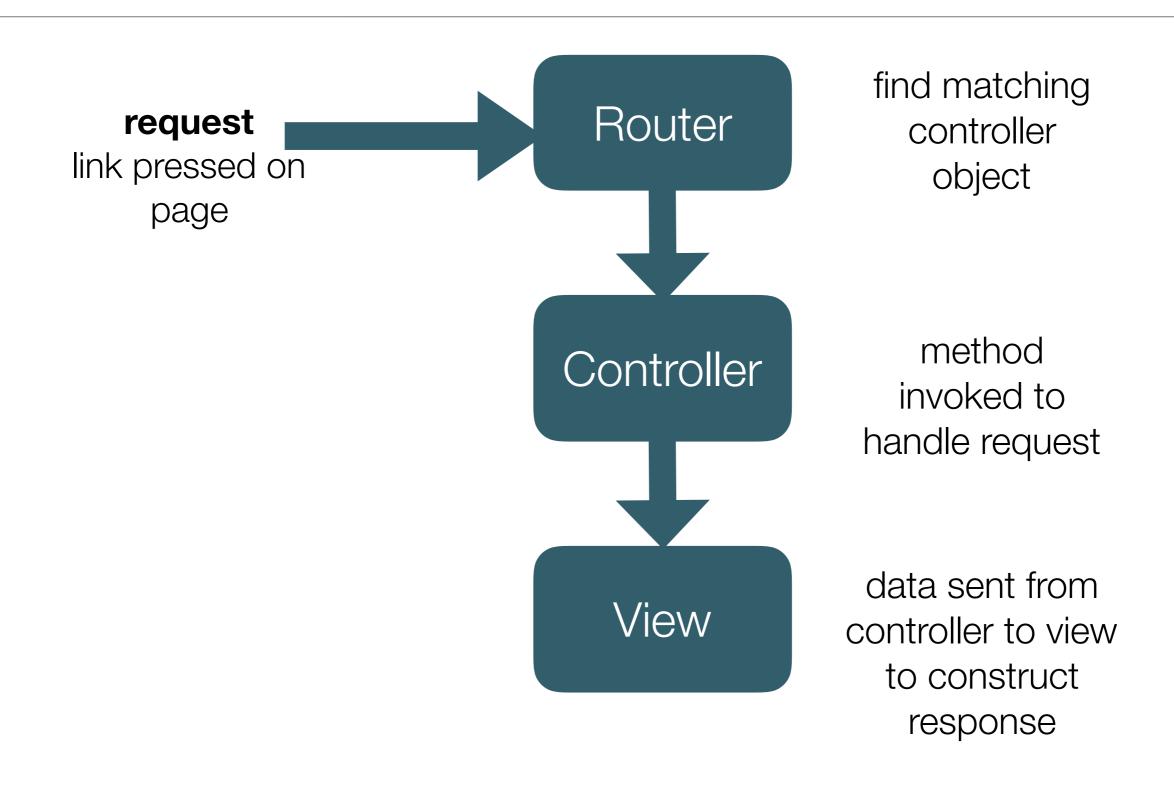
find matching controller object

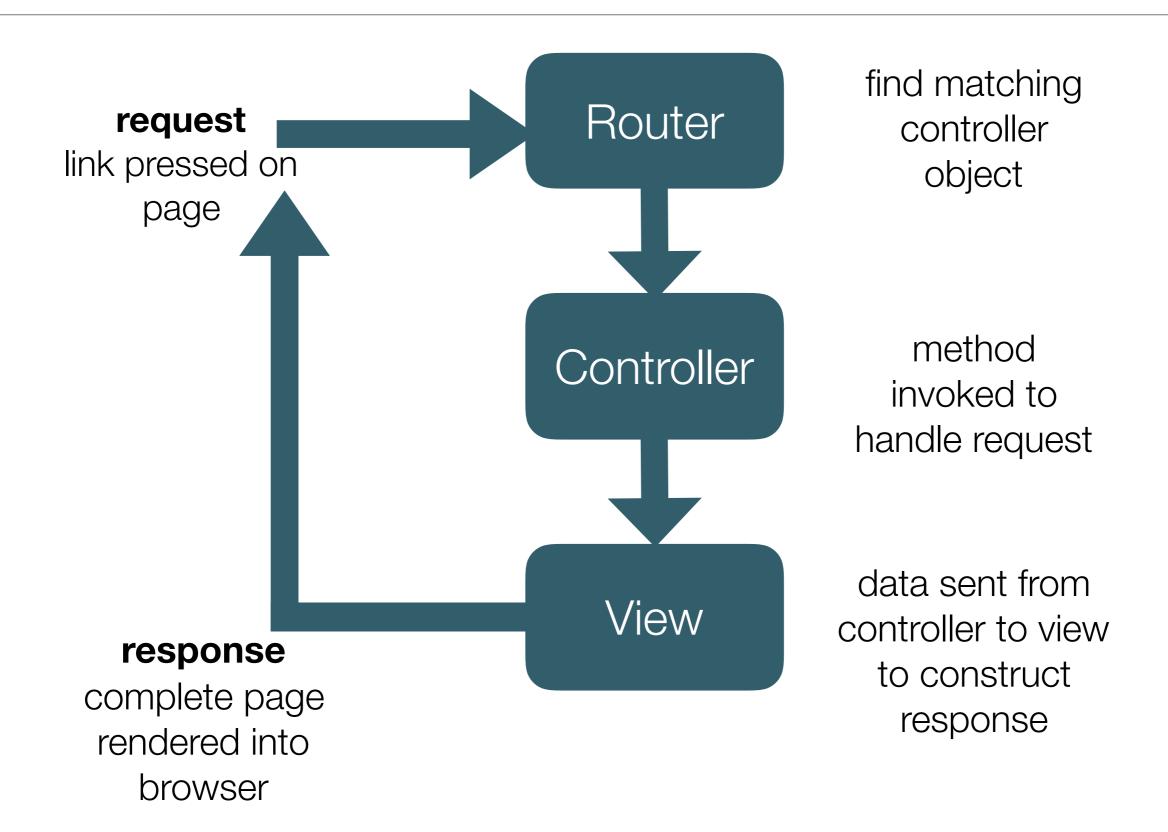


find matching controller object





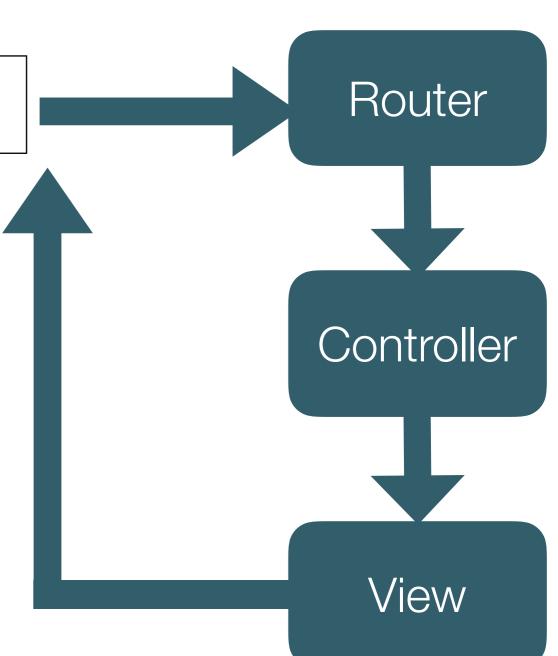




Request - link pressed on page

```
<a id="dashboard" class="item" href="/dashboard"> Dashboard </a>
<a id="about" class="item" href="/about"> About </a>
```

- Requests defined in links in views:
 - href in <a> tags
 - href in Menus
 - href in Buttons
 - action links in forms



Router - find matching controller app object controllers About Dashboard Start models conf application.conf dependencies.yml messages routes

routes

Mach the link patterns with the controler.method

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

Router Behaviour

Router ...then call the If user selects corresponding these links... controller methods Controller Start.index /dashboard' → Dashboard index View /about' About index

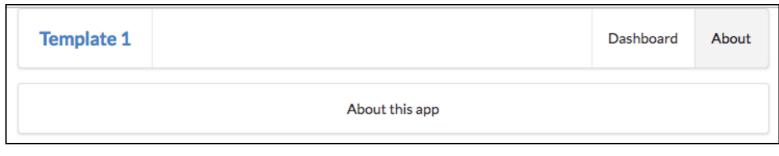
Controller method invoked to handle request

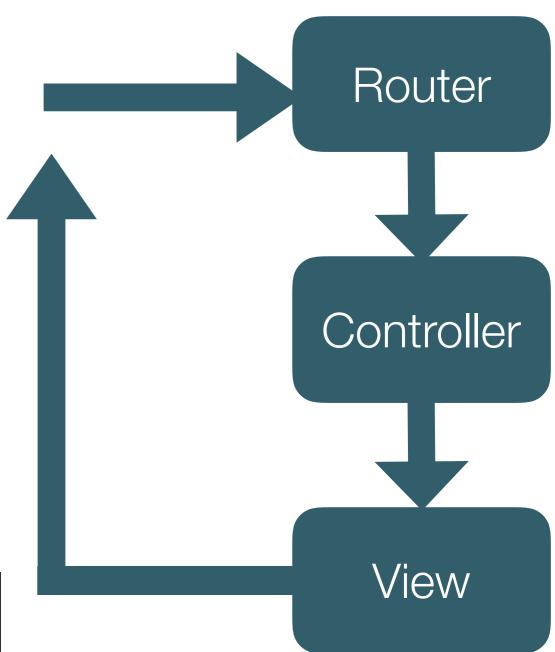
About.java

```
package controllers;
import play.*;
import play.mvc.*;
import java.util.*;
import models.*;

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

The About controller



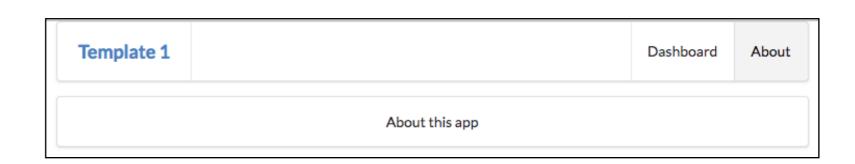


The 'About' controller index action

```
public static void index() {
  Logger.info("Rendering about");
  render ("about.html");
}
```

```
12:28:42,127 INFO ~ Rendering Dashboard
12:28:44,618 INFO ~ Rendering about
12:28:45,193 INFO ~ Rendering Dashboard
12:28:46,233 INFO ~ Rendering Start
12:28:47,233 INFO ~ Rendering Dashboard
12:29:18,611 INFO ~ Rendering Dashboard
12:29:46,311 INFO ~ Rendering about
12:29:47,111 INFO ~ Rendering Dashboard
12:29:48,199 INFO ~ Rendering Start
```

Log a message to the console



Render the 'about' view

about.js

Back-end + Front-End

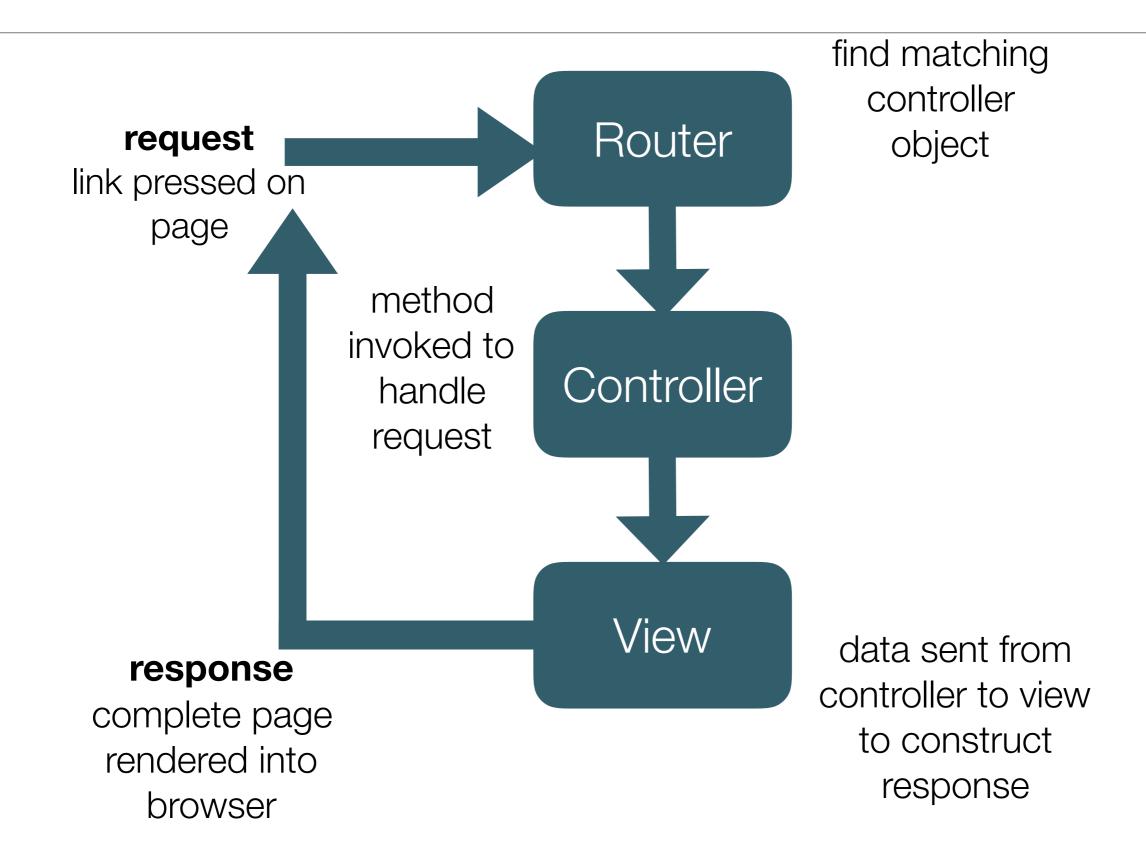
about.html

```
public static void index() {
   Logger.info("Rendering about");
   render ("about.html");
}
```





main.html



Router/Controller/Model/View

