

```
1. <?php
2.
3. require_once('../includes/helpers.php');
4.
5. // determine which page to render
6. if (isset($_GET['page']))
7.     $page = $_GET['page'];
8. else
9.     $page = 'index';
10.
11. // show page
12. switch ($page)
13. {
14.     case 'index':
15.         render('templates/header', array('title' => 'CSCI S-75'));
16.         render('index');
17.         render('templates/footer');
18.         break;
19.
20.     case 'lectures':
21.         render('templates/header', array('title' => 'Lectures'));
22.         render('lectures');
23.         render('templates/footer');
24.         break;
25.
26.     case 'lecture':
27.         if (isset($_GET['n']))
28.         {
29.             render('templates/header', array('title' => 'Lecture ' . $_GET['n']));
30.             render('lecture', array('n' => $_GET['n']));
31.             render('templates/footer');
32.         }
33.         break;
34. }
35.
36. ?>
```

```
1. <?php
2.
3. /**
4.  * Renders template.
5.  *
6.  * @param array $data
7.  */
8. function render($template, $data = array())
9. {
10.     $path = __DIR__ . '/../views/' . $template . '.php';
11.     if (file_exists($path))
12.     {
13.         extract($data);
14.         require($path);
15.     }
16. }
17.
18. ?>
```

1. mvc/7/README
- 2.
3. David J. Malan
4. malan@harvard.edu
- 5.
6. Improves upon mvc/6 by introducing search engine-friendly URLs via mod_rewrite.
- 7.
8. html/
 9. index.php - controller
10. includes/
 11. helpers.php - helper functions
12. views/
 13. index.php - homepage for the course
 14. lecture.php - a lecture
 15. lectures.php - a list of lectures
16. templates/
 17. footer.php - pages' footer
 18. header.php - pages' header

```
1. <ul>
2.   <li><a href="lectures">Lectures</a></li>
3.   <li><a href="http://cdn.cs75.net/2012/summer/lectures/0/syllabus.pdf">Syllabus</a></li>
4. </ul>
```

```
1. <ul>
2.   <li><a href="http://cdn.cs75.net/2012/summer/lectures/<?php echo $n ?>/slides<?php echo $n ?>.pdf">Slides</a></li>
3.   <li><a href="http://cdn.cs75.net/2012/summer/lectures/<?php echo $n ?>/lecture<?php echo $n ?>.mp4">Video</a></li>
4. </ul>
```

```
1. <ul>
2.   <li><a href="lecture/0">Lecture 0</a></li>
3.   <li><a href="lecture/1">Lecture 1</a></li>
4. </ul>
```

1. `</body>`
2. `</html>`

```
1. <!DOCTYPE html>
2.
3. <html>
4.   <head>
5.     <meta name="viewport" content="width=device-width">
6.     <title><?php echo htmlspecialchars($title) ?></title>
7.   </head>
8.   <body>
9.     <h1><?php echo htmlspecialchars($title) ?></h1>
```

```
1. <?php
2.
3. class Homepage extends CI_Controller {
4.
5.     public function index()
6.     {
7.         $this->load->view('templates/header', array('title' => 'CS164'));
8.         $this->load->view('homepage/index');
9.         $this->load->view('templates/footer');
10.    }
11.
12.    public function lectures()
13.    {
14.        $this->load->view('templates/header', array('title' => 'Lectures'));
15.        $this->load->view('homepage/lectures');
16.        $this->load->view('templates/footer');
17.    }
18.
19.    public function lecture($n)
20.    {
21.        $this->load->view('templates/header', array('title' => 'Lecture ' . $n));
22.        $this->load->view('homepage/lecture', array('n' => $n));
23.        $this->load->view('templates/footer');
24.    }
25. }
26.
27. ?>
```

```
1. <ul>
2.   <li><a href="lectures">Lectures</a></li>
3.   <li><a href="http://cdn.cs75.net/2012/summer/lectures/0/syllabus.pdf">Syllabus</a></li>
4. </ul>
```

```
1. <ul>
2.   <li><a href="http://cdn.cs75.net/2012/summer/lectures/<?php echo $n ?>/slides<?php echo $n ?>.pdf">Slides</a></li>
3.   <li><a href="http://cdn.cs75.net/2012/summer/lectures/<?php echo $n ?>/lecture<?php echo $n ?>.mp4">Video</a></li>
4. </ul>
```

```
1. <ul>
2.   <li><a href="lecture/0">Lecture 0</a></li>
3.   <li><a href="lecture/1">Lecture 1</a></li>
4. </ul>
```

1. `</body>`
2. `</html>`

```
1. <!DOCTYPE html>
2.
3. <html>
4.   <head>
5.     <meta name="viewport" content="width=device-width">
6.     <title><?php echo htmlspecialchars($title) ?></title>
7.   </head>
8.   <body>
9.     <h1><?php echo htmlspecialchars($title) ?></h1>
```

1. mvc/9/README
- 2.
3. David J. Malan
4. malan@harvard.edu
- 5.
6. Improves upon mvc/8 by introducing a framework (CodeIgniter).
- 7.
8. application/
 9. config/
 10. config.php - CodeIgniter's configuration
 11. routes.php - default routes
 12. ...
 13. controllers/
 14. homepage.php - application controller
 15. views/
 16. homepage/
 17. index.php - a homepage for the course
 18. lecture.php - a lecture
 19. lectures.php - a list of lectures
 20. templates/
 21. footer.php - pages' footer
 22. header.php - pages' header
 23. index.php - front controller
24. system/
 25. ...

```
1. <!DOCTYPE html>
2.
3. <html>
4.   <head>
5.     <title>My Lecture Reader</title>
6.   </head>
7.   <body>
8.     <h1>CSCI S-75</h1>
9.     <ul>
10.      <?
11.
12.         $dom = simplexml_load_file("lectures.xml");
13.         foreach ($dom->xpath("/lectures/lecture") as $lecture)
14.           {
15.             print "<li>";
16.             print $lecture->title;
17.             print "</li>";
18.           }
19.
20.      ?>
21.    </ul>
22.  </body>
23. </html>
```

```
1. <?xml version="1.0"?>
2. <lectures>
3.   <lecture number="0">
4.     <title>HTTP</title>
5.     <dates>Mon 6/25</dates>
6.     <resources>
7.       <resource name="Slides">
8.         <format path="http://cdn.cs75.net/2012/summer/lectures/0/lecture0.pdf" label="PDF" />
9.       </resource>
10.      <resource name="Syllabus">
11.        <format path="http://cdn.cs75.net/2012/summer/lectures/0/syllabus.pdf" label="PDF" />
12.      </resource>
13.    </resources>
14.  </lecture>
15.  <lecture number="1">
16.    <title>PHP</title>
17.    <dates>Wed 6/27</dates>
18.    <resources>
19.      <resource name="Slides">
20.        <format path="http://cdn.cs75.net/2012/summer/lectures/1/lecture1.pdf" label="PDF" />
21.      </resource>
22.      <resource name="Source Code">
23.        <format path="http://cdn.cs75.net/2012/summer/lectures/1/src/" label="index" />
24.        <format path="http://cdn.cs75.net/2012/summer/lectures/1/src1.pdf" label="PDF" />
25.        <format path="http://cdn.cs75.net/2012/summer/lectures/1/src1.zip" label="ZIP" />
26.      </resource>
27.    </resources>
28.  </lecture>
29.  <lecture number="2">
30.    <title>PHP, Continued</title>
31.    <dates>Mon 7/2</dates>
32.    <resources>
33.      <resource name="Slides">
34.        <format path="http://cdn.cs75.net/2012/summer/lectures/2/lecture2.pdf" label="PDF" />
35.      </resource>
36.      <resource name="Source Code">
37.        <format path="http://cdn.cs75.net/2012/summer/lectures/2/src/" label="index" />
38.        <format path="http://cdn.cs75.net/2012/summer/lectures/2/src2.pdf" label="PDF" />
39.        <format path="http://cdn.cs75.net/2012/summer/lectures/2/src2.zip" label="ZIP" />
40.      </resource>
41.    </resources>
42.  </lecture>
43.  <lecture number="3">
44.    <title>XML</title>
45.    <dates>Mon 7/9</dates>
46.    <resources>
47.      <resource name="Slides">
48.        <format path="http://cdn.cs75.net/2012/summer/lectures/3/lecture3.pdf" label="PDF" />
```

```
49.     </resource>
50.     </resources>
51. </lecture>
52. </lectures>
```

```
1. <!DOCTYPE html>
2.
3. <html>
4.   <head>
5.     <title>My RSS Reader</title>
6.   </head>
7.   <body>
8.     <h1>New York Times Technology</h1>
9.     <ul>
10.      <?
11.
12.         $dom = simplexml_load_file("http://feeds.nytimes.com/nyt/rss/Technology");
13.         foreach ($dom->channel->item as $item)
14.           {
15.             print "<li>";
16.             print "<a href='{ $item->link }'>";
17.             print $item->title;
18.             print "</a>";
19.             print "</li>";
20.           }
21.
22.     ?>
23.   </ul>
24. </body>
25. </html>
```

```
1. <!DOCTYPE html>
2.
3. <html>
4.   <head>
5.     <title>My RSS Reader</title>
6.   </head>
7.   <body>
8.     <h1>New York Times Technology</h1>
9.     <ul>
10.      <?
11.
12.         $dom = simplexml_load_file("http://feeds.nytimes.com/nyt/rss/Technology");
13.         foreach ($dom->channel->item as $item)
14.         {
15.             $time = strtotime($item->pubDate);
16.             $date = date("M j, Y", $time);
17.             print "<li>";
18.             print "<a href='{ $item->link }'>";
19.             print $item->title;
20.             print "</a>";
21.             print " (" . $date . ")";
22.             print "</li>";
23.         }
24.
25.     ?>
26.   </ul>
27. </body>
28. </html>
```