```php
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. ?>
```

```php
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>
```

```php
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>
```

```php
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.    ...
```

```php
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>
```

```xml
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>
```

```php
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>
```