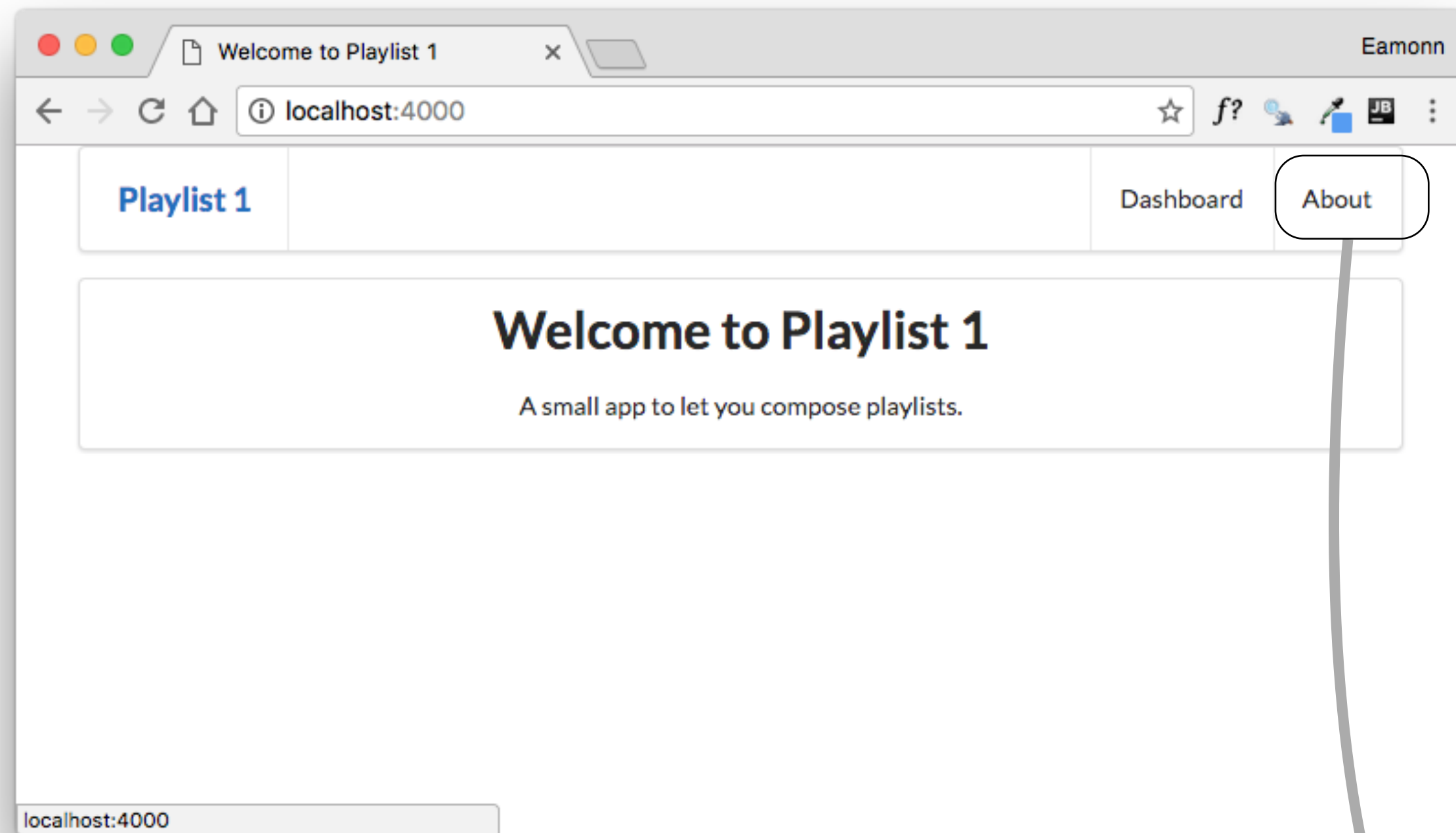
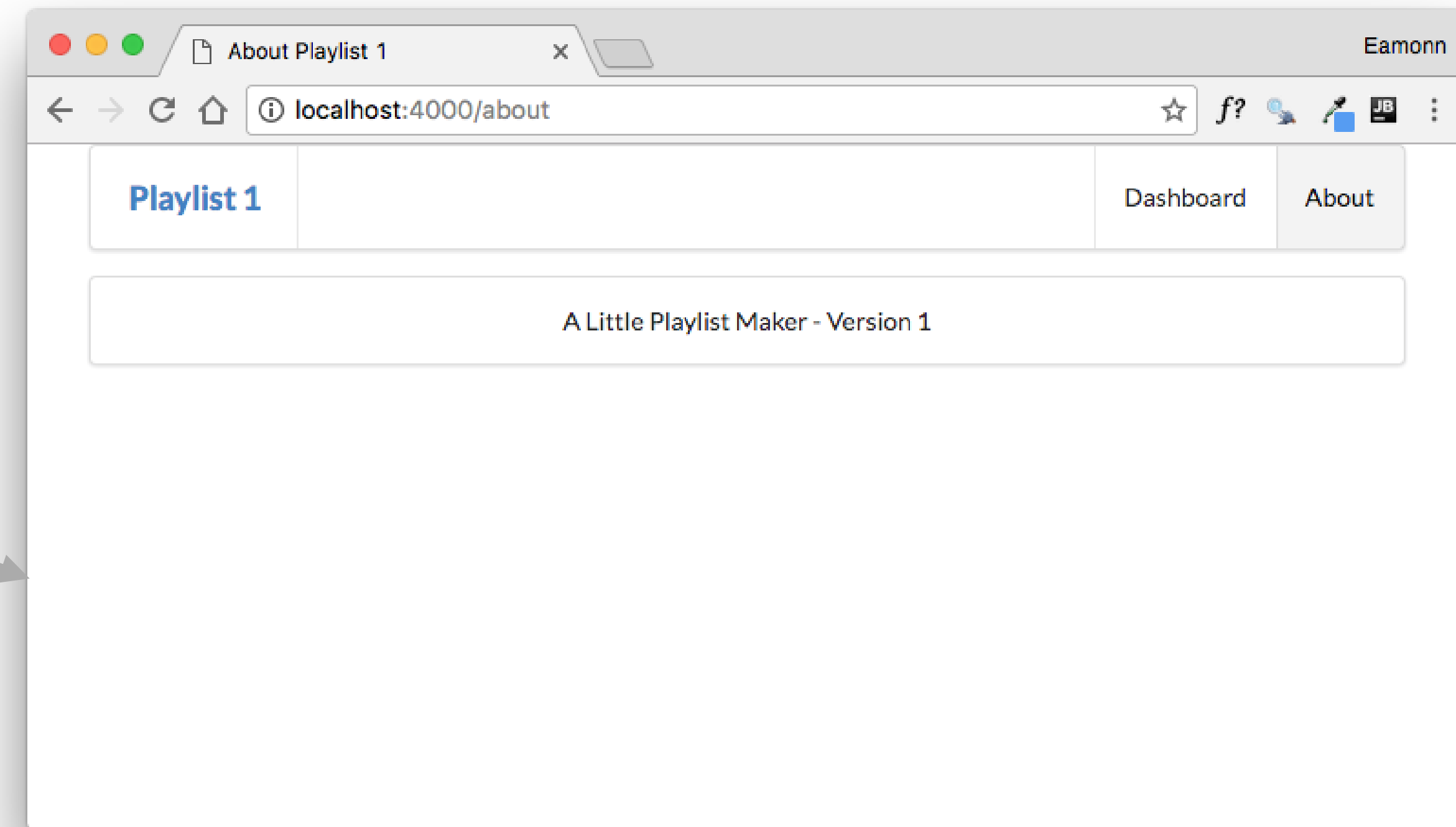
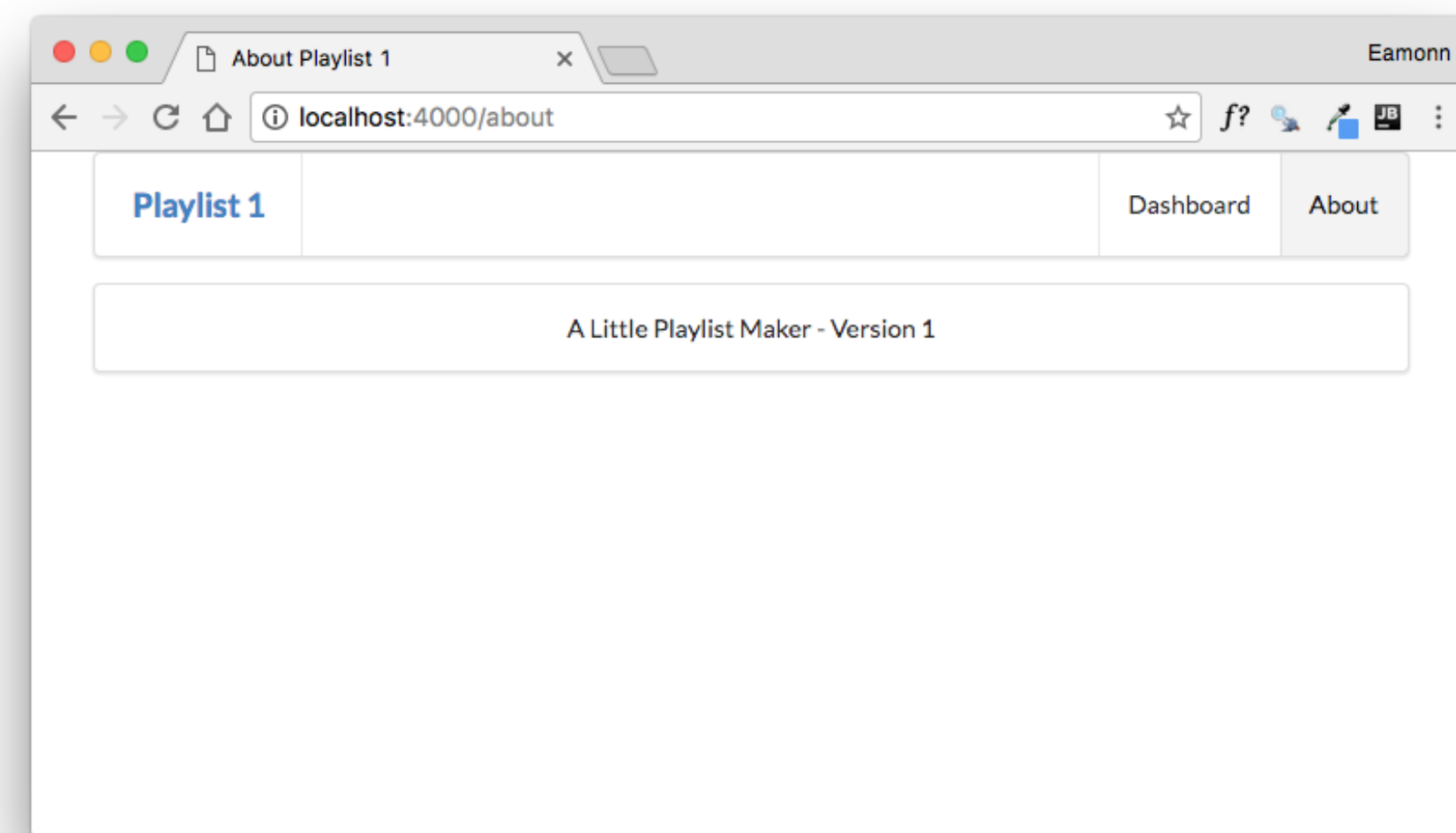
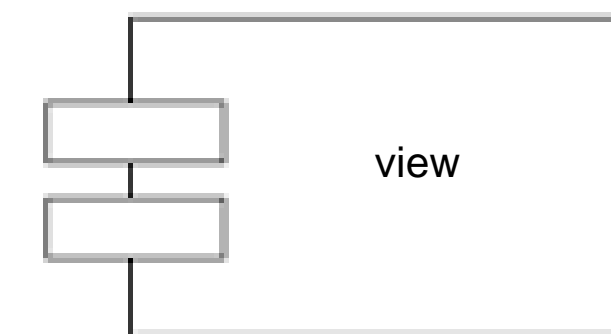
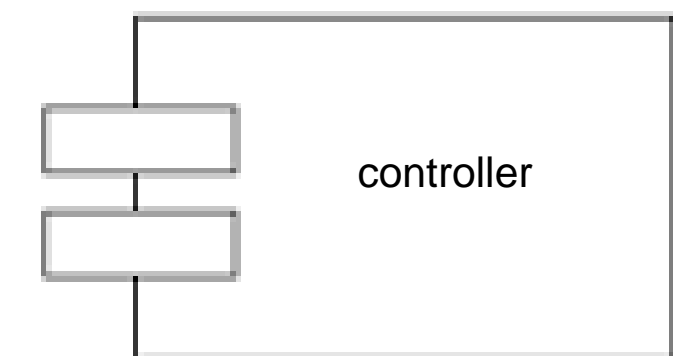
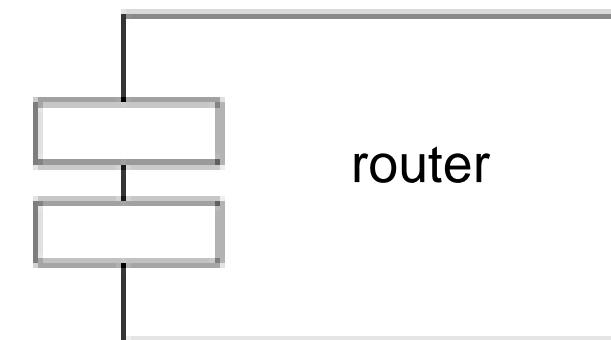
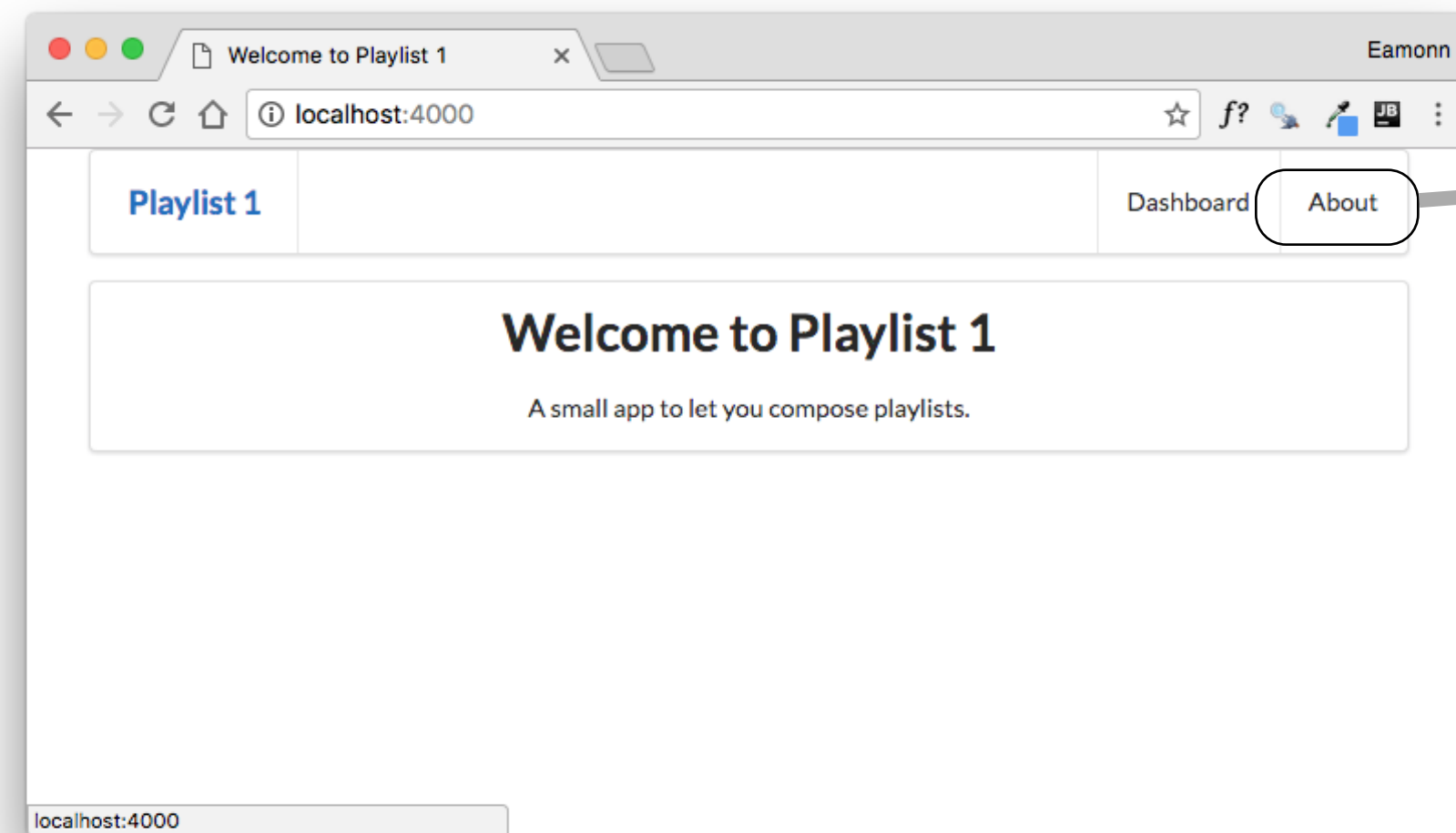


Model View Controller (MVC)



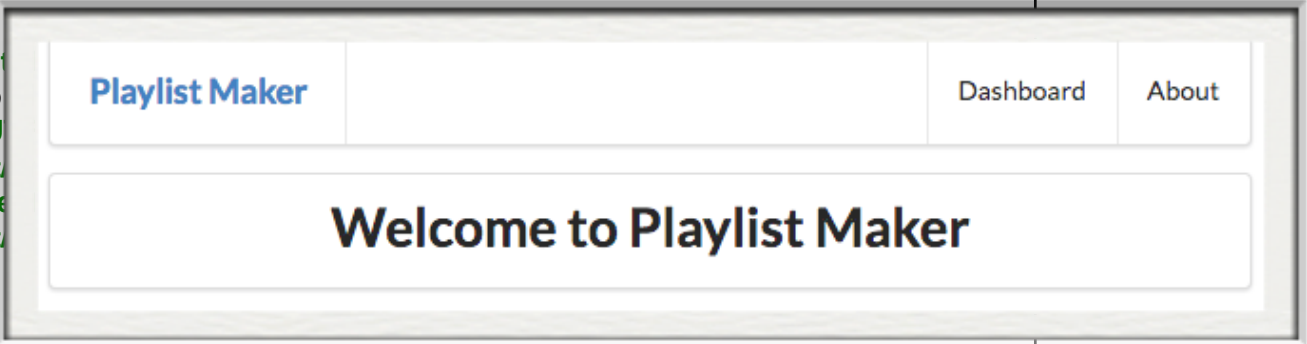
Router / Controller / View





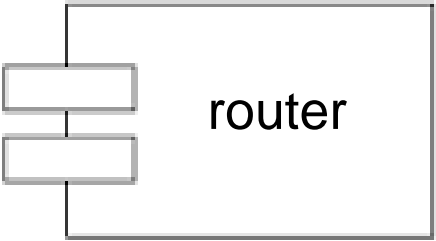
```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title> Welcome to Playlist 1
  <meta charset="utf-8">
  <script type="text/javascript">
  <link rel="stylesheet" href="style.css">
  <script type="text/javascript">
</head>
<body>
  <section class="ui container">
    <nav class="ui menu">
      <header class="ui header item">
        <a href="/"> Playlist 1 </a>
      </header>
      <div class="right menu">
        <a id="dashboard" class="item" href="/dashboard">
          Dashboard
        </a>
        <a id="about" class="item" href="/about">
          About
        </a>
      </div>
    </nav>

    <section class="ui center aligned middle aligned segment">
      <h1 class="ui header">
        Welcome to Playlist 1
      </h1>
      <p>
        A small app to let you compose playlists.
      </p>
    </section>
  </section>
</body>
</html>
```



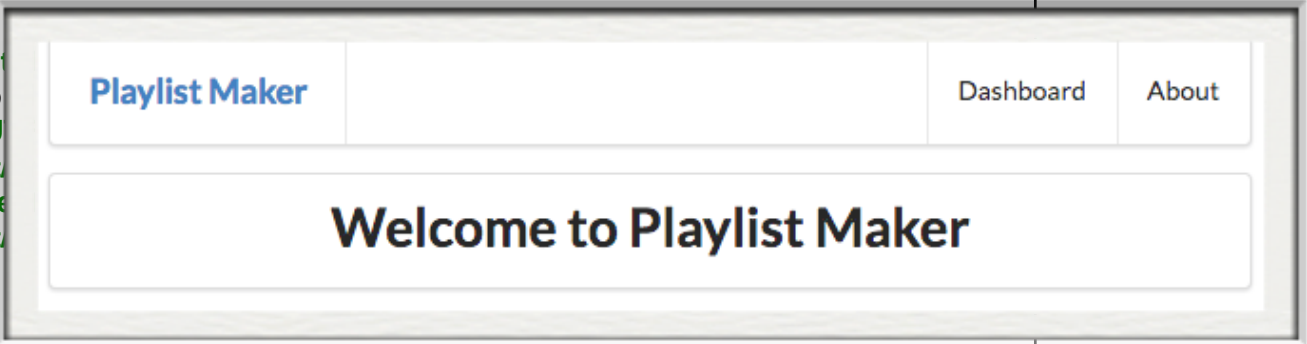
‘/about’

REQUEST



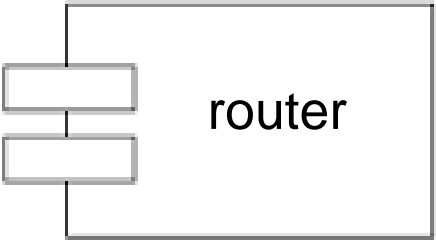
```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title> Welcome to Playlist 1
  <meta charset="utf-8">
  <script type="text/javascript">
  <link rel="stylesheet" href="style.css">
  <script type="text/javascript">
</head>
<body>
  <section class="ui container">
    <nav class="ui menu">
      <header class="ui header item">
        <a href="/"> Playlist 1 </a>
      </header>
      <div class="right menu">
        <a id="dashboard" class="item" href="/dashboard">
          Dashboard
        </a>
        <a id="about" class="item" href="/about">
          About
        </a>
      </div>
    </nav>

    <section class="ui center aligned middle aligned segment">
      <h1 class="ui header">
        Welcome to Playlist 1
      </h1>
      <p>
        A small app to let you compose playlists.
      </p>
    </section>
  </section>
</body>
</html>
```



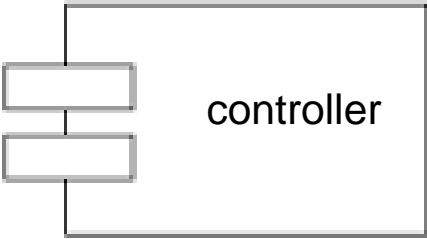
‘/about’

REQUEST



```
routes.js

router.get('/', start.index);
router.get('/dashboard', dashboard.index);
router.get('/playlist/:id', playlist.index);
router.get('/about', about.index);
```



about.js

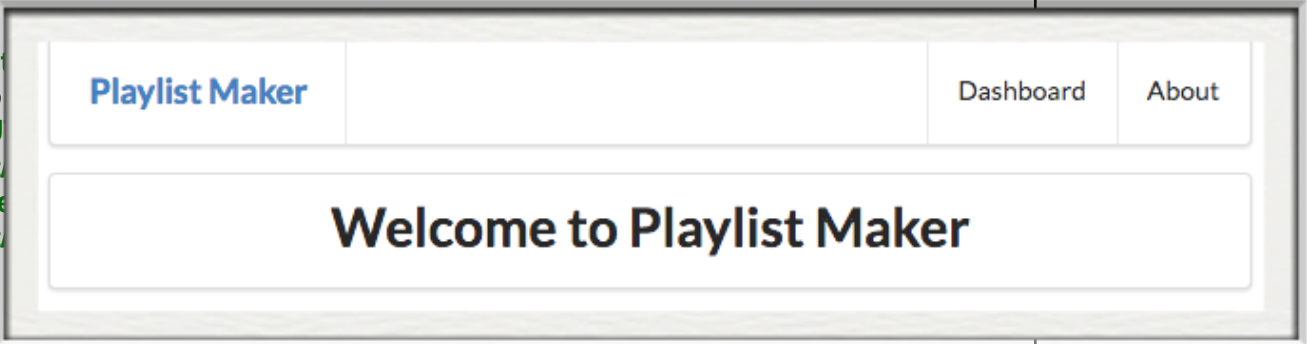
```
const about = {

  index(request, response) {
    logger.info('about rendering');
    const viewData = {
      title: 'About Playlist 1',
    };
    response.render('about', viewData);
  },
};
```

about.index(req, res)

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<title> Welcome to Playlist Maker
<meta charset="utf-8">
<script type="text/javascript">
<link rel="stylesheet" href="css/style.css">
<script type="text/javascript">
</script>
</head>
<body>
<section class="ui container">
<nav class="ui menu">
<header class="ui header item">
<a href="/"> Playlist 1 </a>
</header>
<div class="right menu">
<a id="dashboard" class="item" href="/dashboard">
Dashboard
</a>
<a id="about" class="item" href="/about">
About
</a>
</div>
</nav>

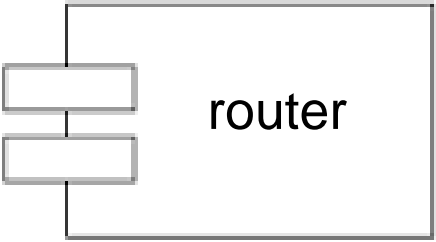
<section class="ui center aligned middle aligned segment">
<h1 class="ui header">
Welcome to Playlist 1
</h1>
<p>
A small app to let you compose playlists.
</p>
</section>
</section>
</body>
</html>
```



REQUEST



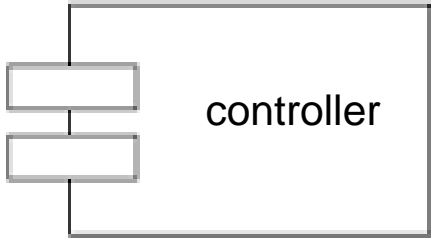
'/about'



router

```
routes.js

router.get('/', start.index);
router.get('/dashboard', dashboard.index);
router.get('/playlist/:id', playlist.index);
router.get('/about', about.index);
```



controller

about.js

```
const about = {

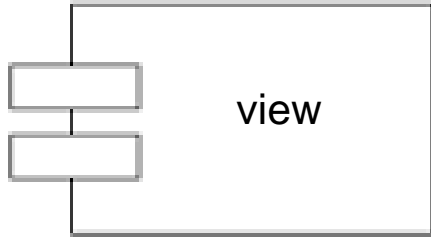
index(request, response) {
  logger.info('about rendering');
  const viewData = {
    title: 'About Playlist 1',
  };
  response.render('about', viewData);
},

};
```

about.index(req, res)

response.render('about', viewData);

```
viewData = {
  title: 'About Playlist 1',
};
```



view

about.hbs

```
about.hbs

{{> menu id="about"}}

<section class="ui segment">
<p>
About this app
</p>
</section>
```

{{> menu id="about"}}

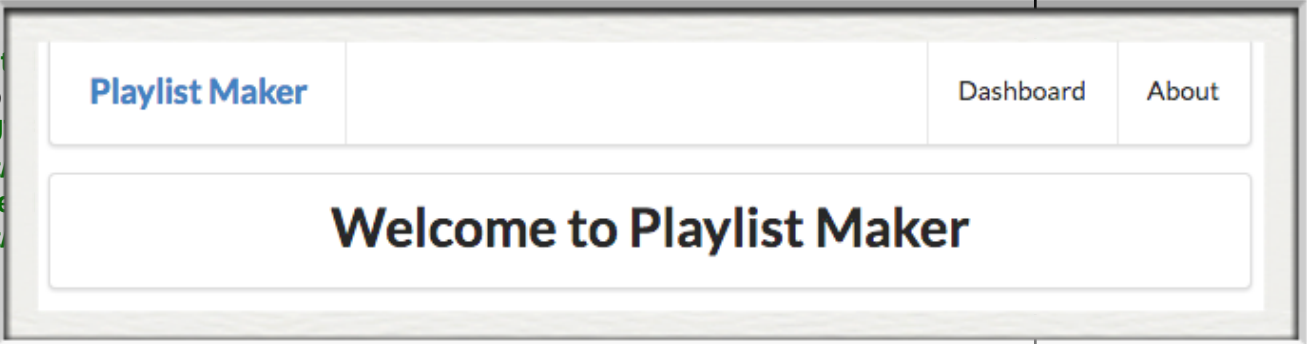
menu.hbs

```
<nav class="ui menu">
<header class="ui header item"> <a href="/"> Template 1 </a></header>
<div class="right menu">
  <a id="dashboard" class="item" href="/dashboard"> Dashboard </a>
  <a id="about" class="item" href="/about"> About </a>
</div>
</nav>
```

https://playlist-2.glitch.me

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<title> Welcome to Playlist 1
<meta charset="UTF-8">
<script type="text/javascript" src="...jquery.min.js"></script>
<link rel="stylesheet" href="...semantic.min.css" type="text/css">
<script type="text/javascript" src="h...semantic.min.js"></script>
</head>
<body>
<section class="ui container">
<nav class="ui menu">
<header class="ui header item">
<a href="/"> Playlist 1 </a>
</header>
<div class="right menu">
<a id="dashboard" class="item" href="/dashboard">
Dashboard
</a>
<a id="about" class="item" href="/about">
About
</a>
</div>
</nav>

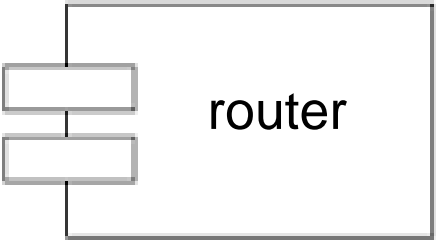
<section class="ui center aligned middle aligned segment">
<h1 class="ui header">
Welcome to Playlist 1
</h1>
<p>
A small app to let you compose playlists.
</p>
</section>
</section>
</body>
</html>
```



REQUEST



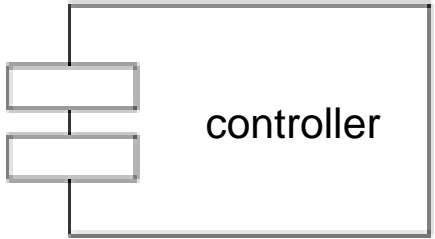
'/about'



router

```
routes.js

router.get('/', start.index);
router.get('/dashboard', dashboard.index);
router.get('/playlist/:id', playlist.index);
router.get('/about', about.index);
```



controller

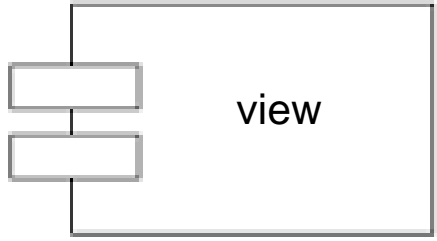
about.js

```
const about = {

index(request, response) {
  logger.info('about rendering');
  const viewData = {
    title: 'About Playlist 1',
  };
  response.render('about', viewData);
},
};
```

about.index(req, res)

response.render('about', viewData);



view

about.hbs

```

{{> menu id="about"}}

<section class="ui segment">
<p>
About this app
</p>
</section>
```

{{> menu id="about"}}

menu.hbs

```
<nav class="ui menu">
<header class="ui header item"> <a href="/"> Template 1 </a></header>
<div class="right menu">
<a id="dashboard" class="item" href="/dashboard"> Dashboard </a>
<a id="about" class="item" href="/about"> About </a>
</div>
</nav>
```

main.hbs

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<title> {{title}} </title>
<meta charset="UTF-8">
<script type="text/javascript" src="...jquery.min.js"></script>
<link rel="stylesheet" href="...semantic.min.css" type="text/css">
<script type="text/javascript" src="h...semantic.min.js"></script>
</head>
<body>
<section class="ui container">
{{{body}}}
</section>
</body>
</html>
```

{{{body}}}

```
viewData = {
  title: 'About Playlist 1',
};
```

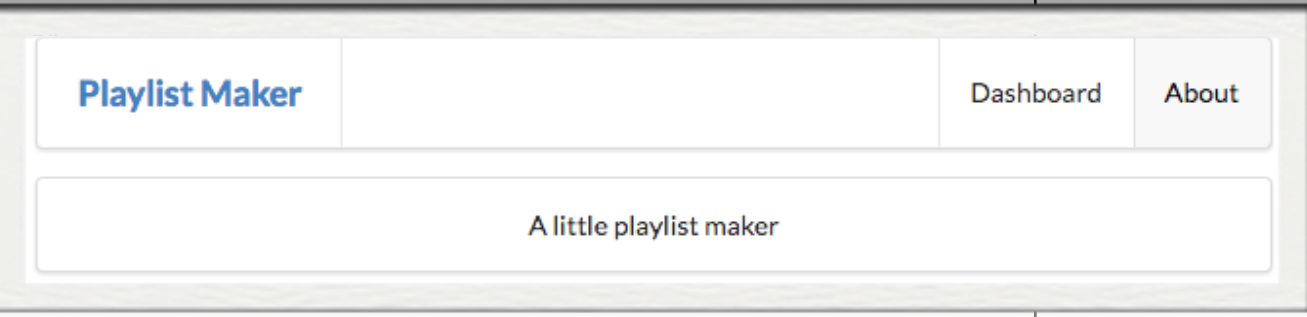
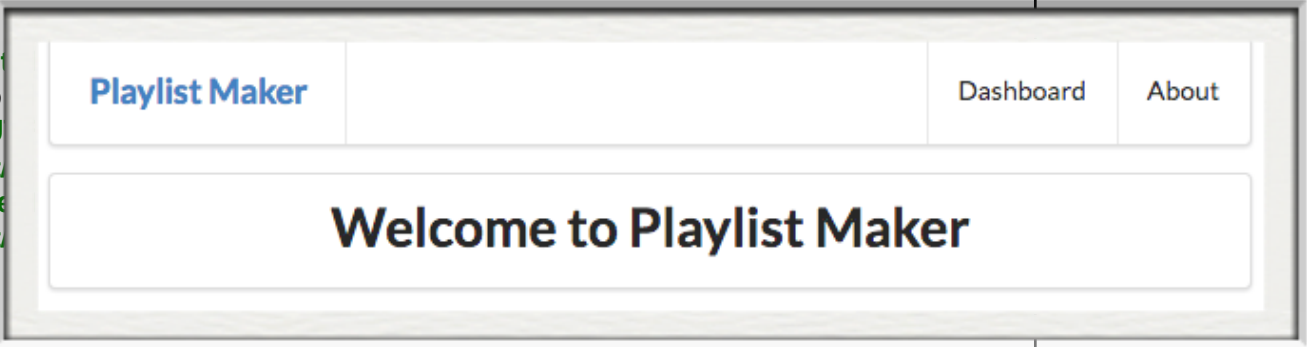

https://playlist-2.glitch.me

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<title> Welcome to Playlist 1
<meta charset="utf-8">
<script type="text/javascript" src="...jquery.min.js"></script>
<link rel="stylesheet" href="...semantic.min.css" type="text/css">
<script type="text/javascript" src="h...semantic.min.js"></script>
</head>
<body>
<section class="ui container">
<nav class="ui menu">
<header class="ui header item">
<a href="/"> Playlist 1 </a>
</header>
<div class="right menu">
<a id="dashboard" class="item" href="/dashboard">
Dashboard
</a>
<a id="about" class="item" href="/about">
About
</a>
</div>
</nav>

<section class="ui center aligned middle aligned segment">
<h1 class="ui header">
Welcome to Playlist 1
</h1>
<p>
A small app to let you compose playlists.
</p>
</section>
</section>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<title> Welcome to Playlist 1
<meta charset="utf-8">
<script type="text/javascript" src="...jquery.min.js"></script>
<link rel="stylesheet" href="...semantic.min.css" type="text/css">
<script type="text/javascript" src="h...semantic.min.js"></script>
</head>
<body>
<section class="ui container">
<nav class="ui menu">
<header class="ui header item">
<a href="/"> Playlist 1 </a>
</header>
<div class="right menu">
<a id="dashboard" class="item" href="/dashboard">
Dashboard
</a>
<a id="about" class="item" href="/about">
About
</a>
</div>
</nav>

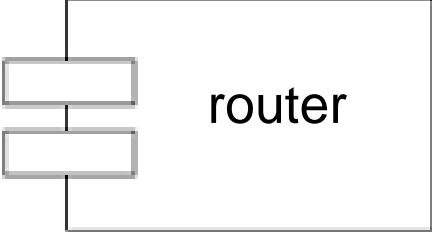
<section class="ui center aligned middle aligned segment">
<p>
A Little Playlist Maker - Version 1
</p>
</section>
</section>
</body>
</html>
```



REQUEST

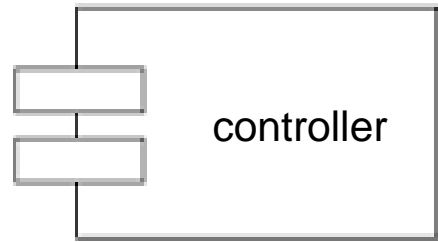


‘/about’



```
routes.js

router.get('/', start.index);
router.get('/dashboard', dashboard.index);
router.get('/playlist/:id', playlist.index);
router.get('/about', about.index);
```



about.js

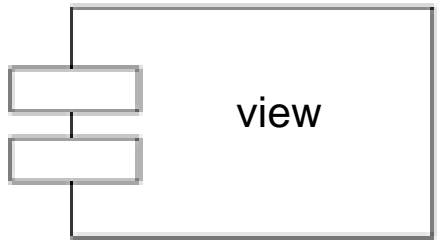
```
const about = {

index(request, response) {
  logger.info('about rendering');
  const viewData = {
    title: 'About Playlist 1',
  };
  response.render('about', viewData);
},
};
```

about.index(req, res)

response.render('about', viewData);

```
viewData = {
  title: 'About Playlist 1',
};
```



menu.hbs

```
<nav class="ui menu">
<header class="ui header item"> <a href="/"> Template 1 </a></header>
<div class="right menu">
<a id="dashboard" class="item" href="/dashboard"> Dashboard </a>
<a id="about" class="item" href="/about"> About </a>
</div>
</nav>
```

```
about.hbs

{{> menu id="about"}}

<section class="ui segment">
<p>
About this app
</p>
</section>
```

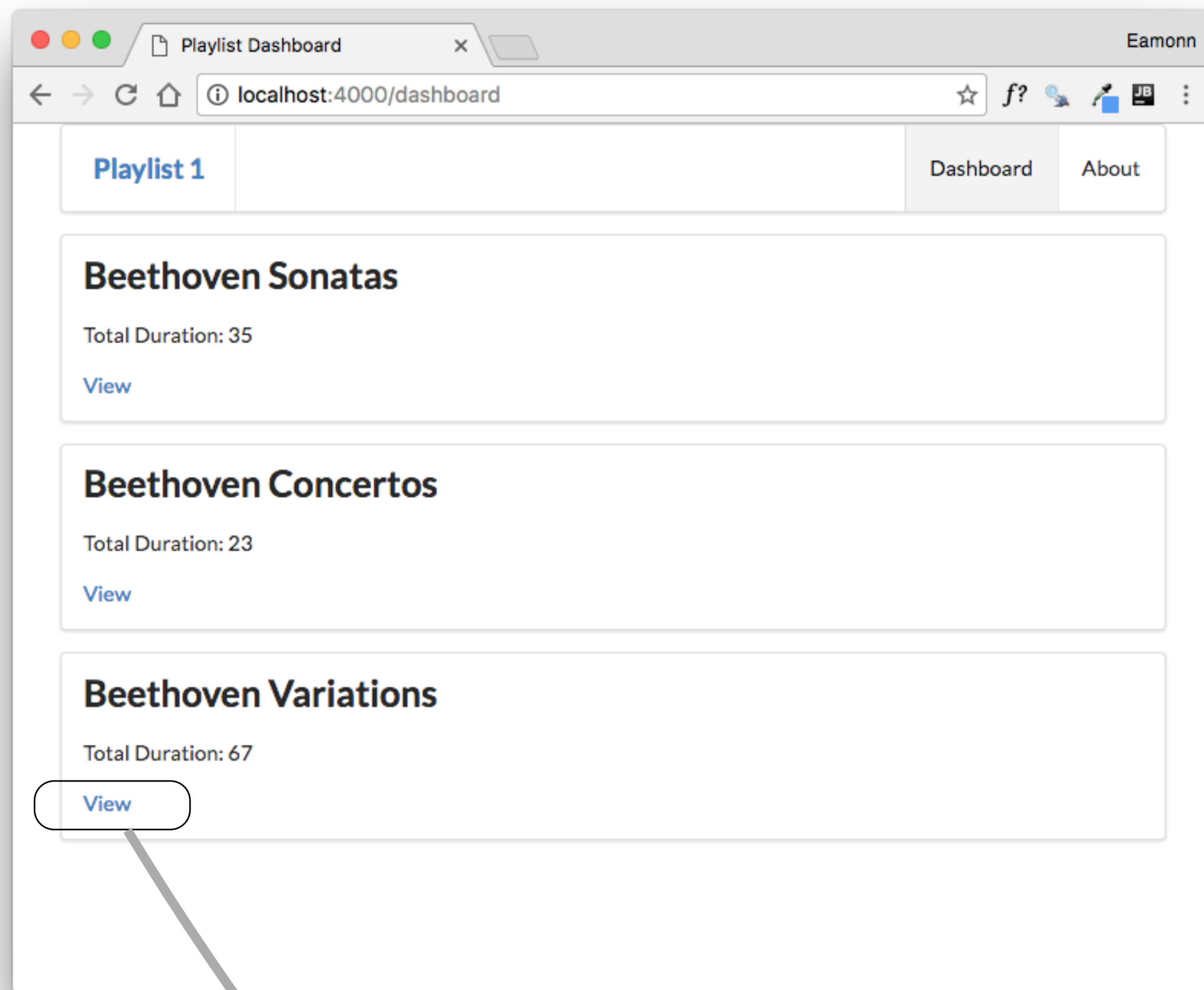
{{{body}}}

main.hbs

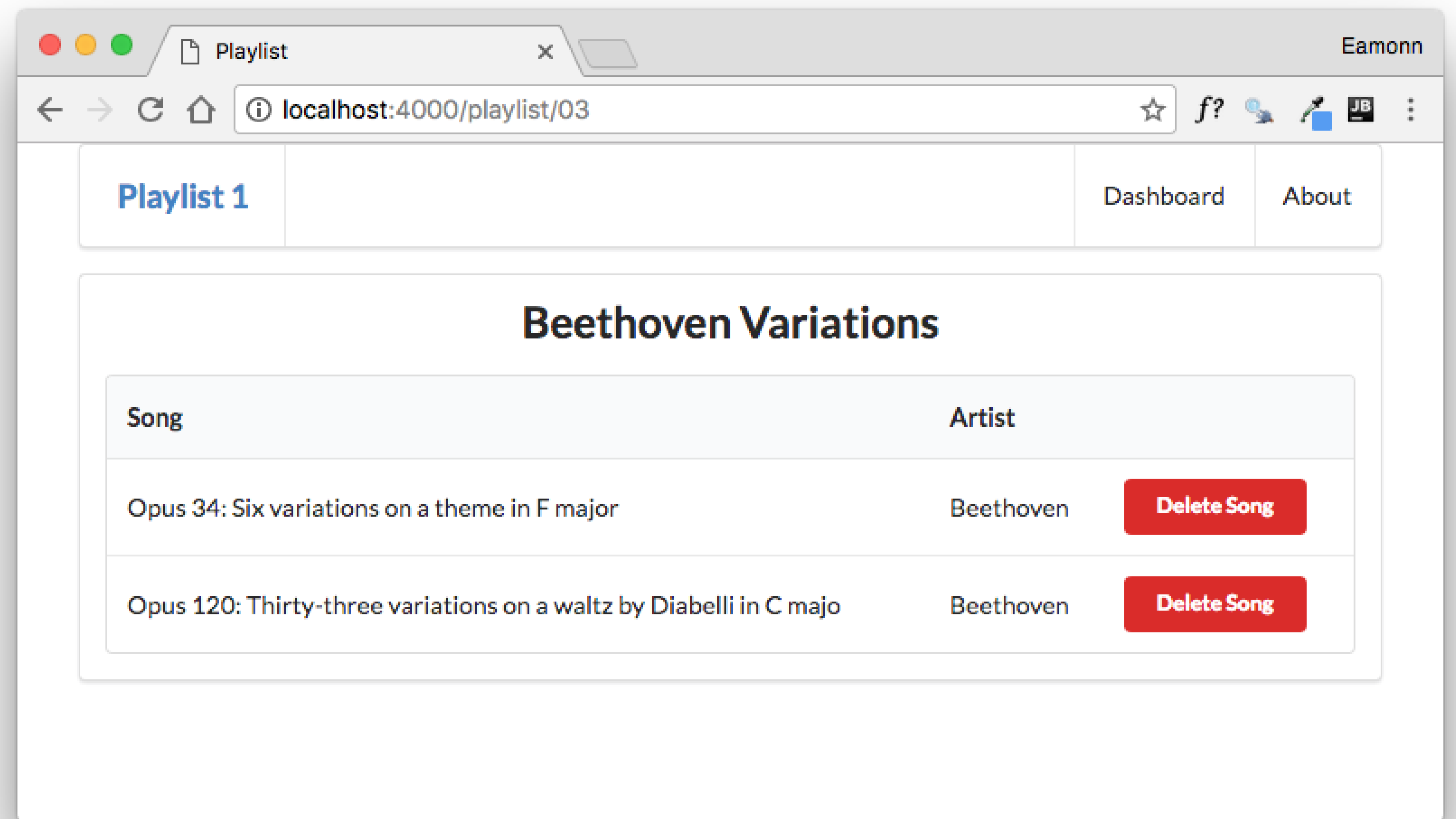
```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<title> {{{title}}} </title>
<meta charset="UTF-8">
<script type="text/javascript" src="...jquery.min.js"></script>
<link rel="stylesheet" href="...semantic.min.css" type="text/css">
<script type="text/javascript" src="h...semantic.min.js"></script>
</head>
<body>
<section class="ui container">
{{{body}}}
</section>
</body>
</html>
```

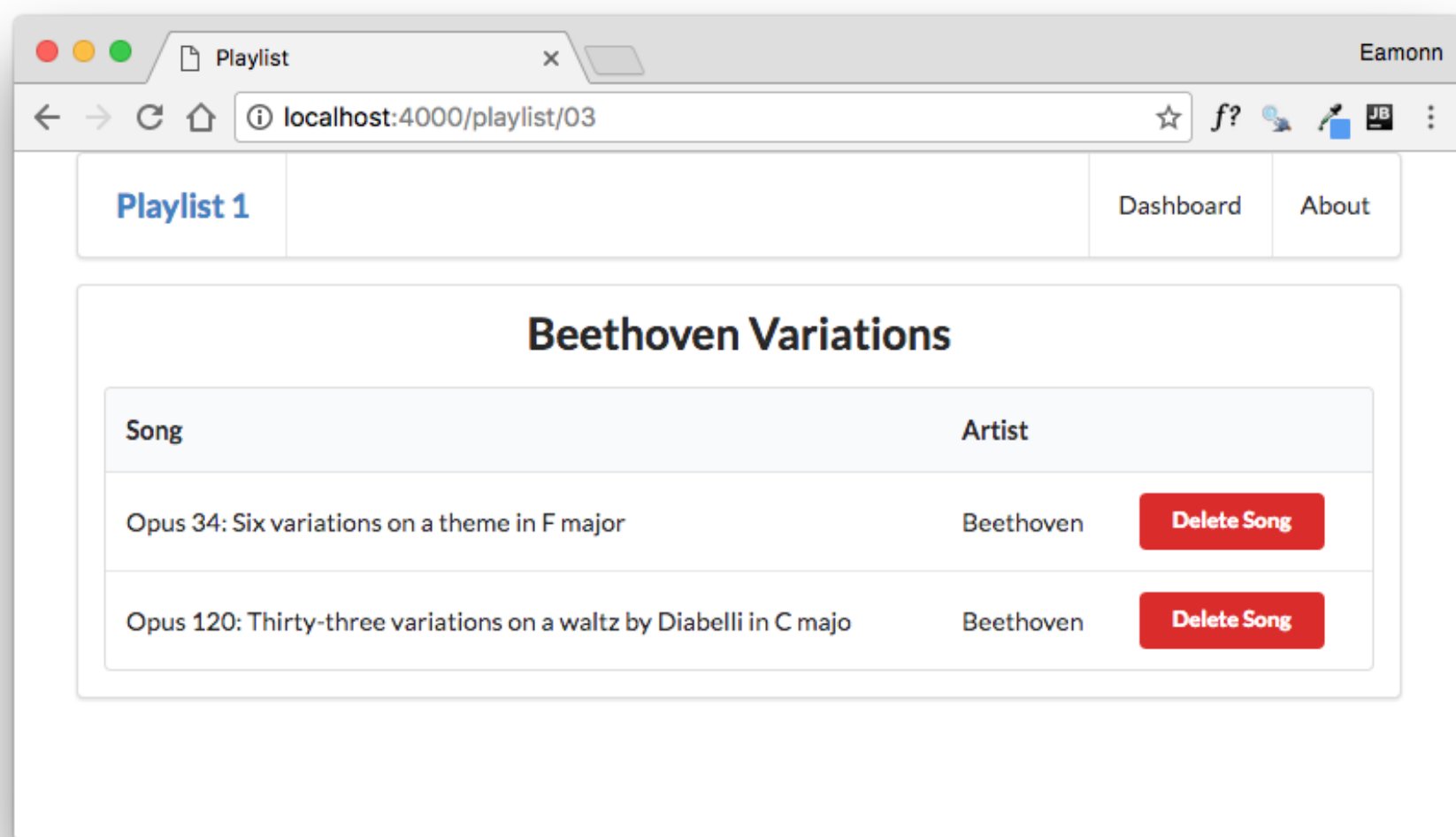
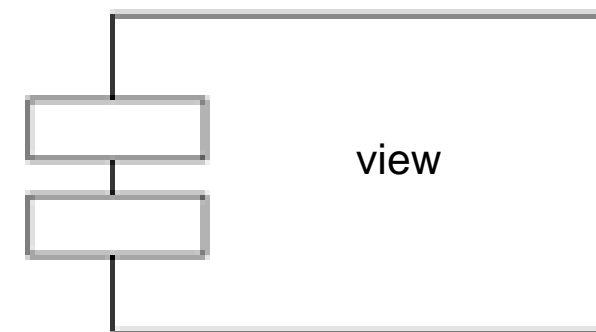
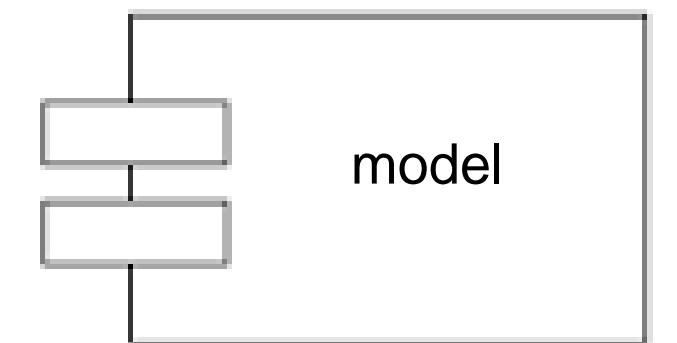
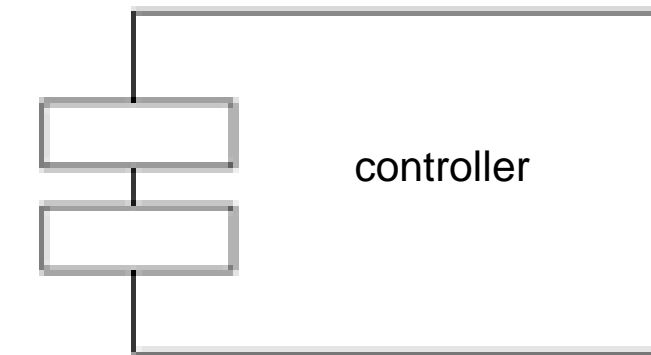
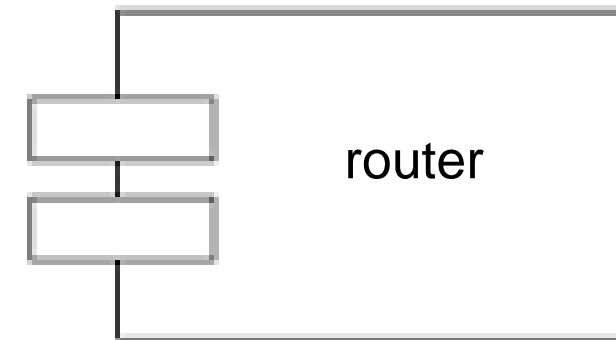
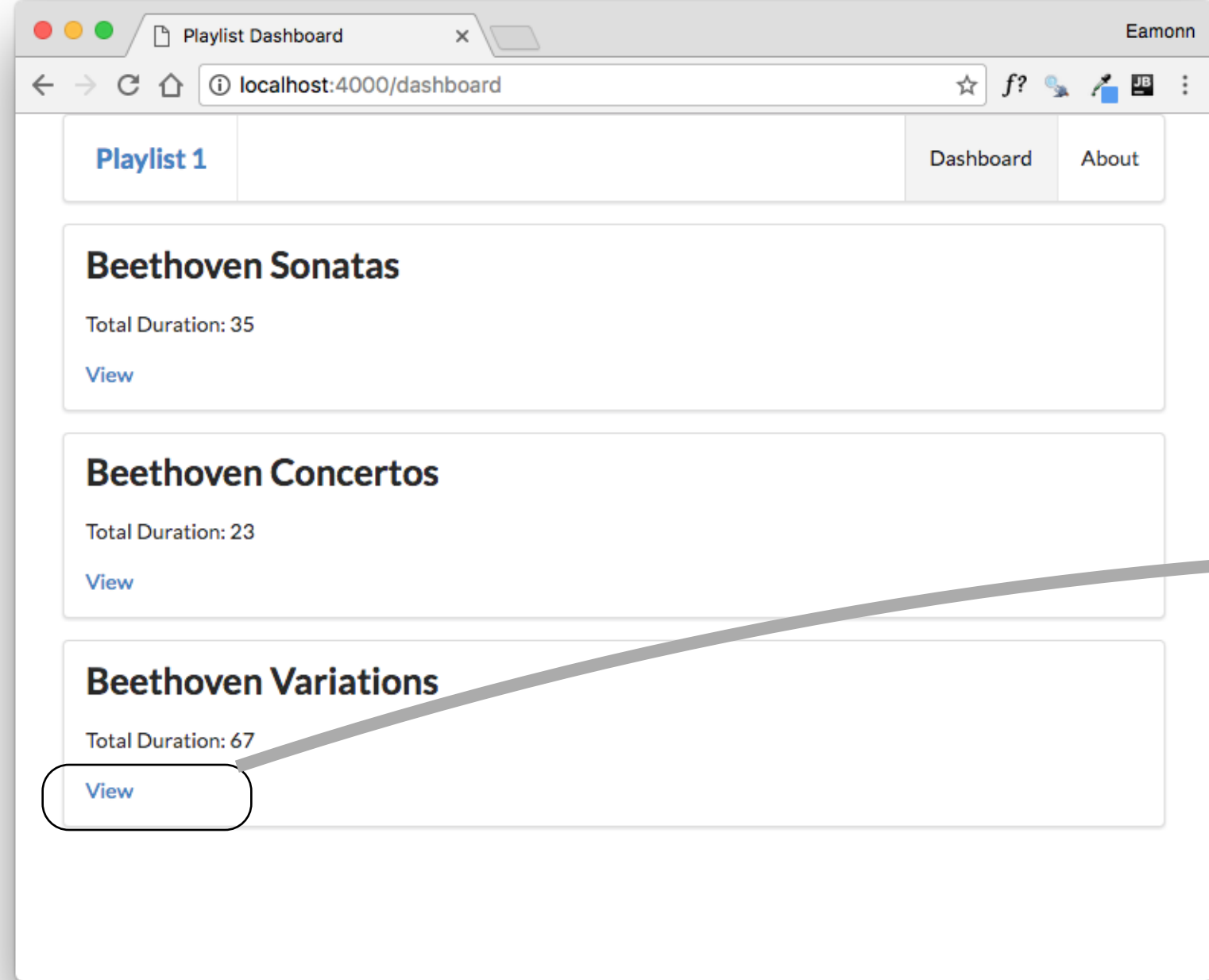
RESPONSE





Router / Controller / Model / View



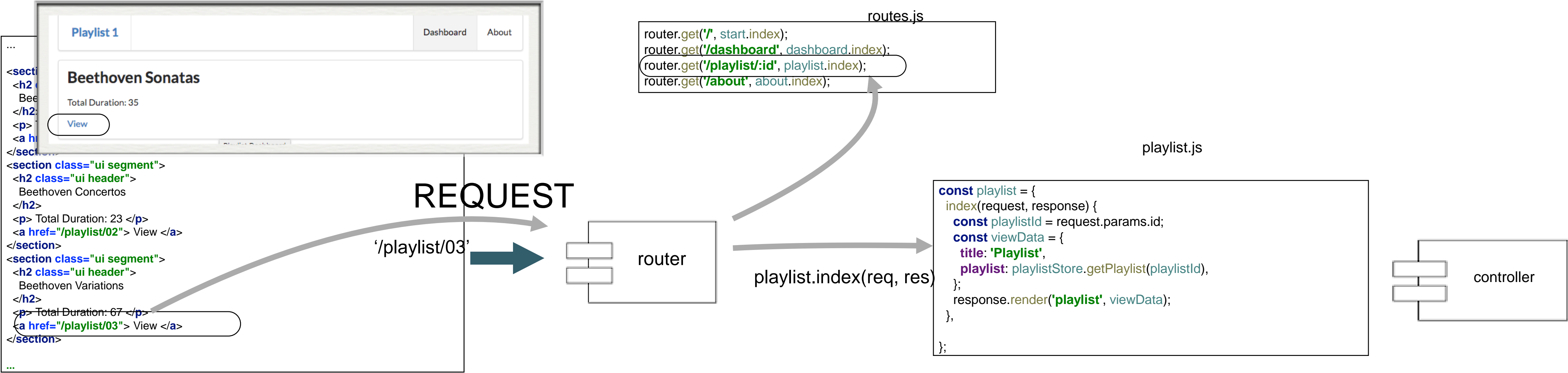


```
...
<section class="ui segment">
  <h2 class="ui header">
    Beethoven Sonatas
  </h2>
  <p> Total Duration: 35 </p>
  <a href="/playlist/01"> View </a>
</section>
<section class="ui segment">
  <h2 class="ui header">
    Beethoven Concertos
  </h2>
  <p> Total Duration: 23 </p>
  <a href="/playlist/02"> View </a>
</section>
<section class="ui segment">
  <h2 class="ui header">
    Beethoven Variations
  </h2>
  <p> Total Duration: 67 </p>
  <a href="/playlist/03"> View </a>
</section>
...
```

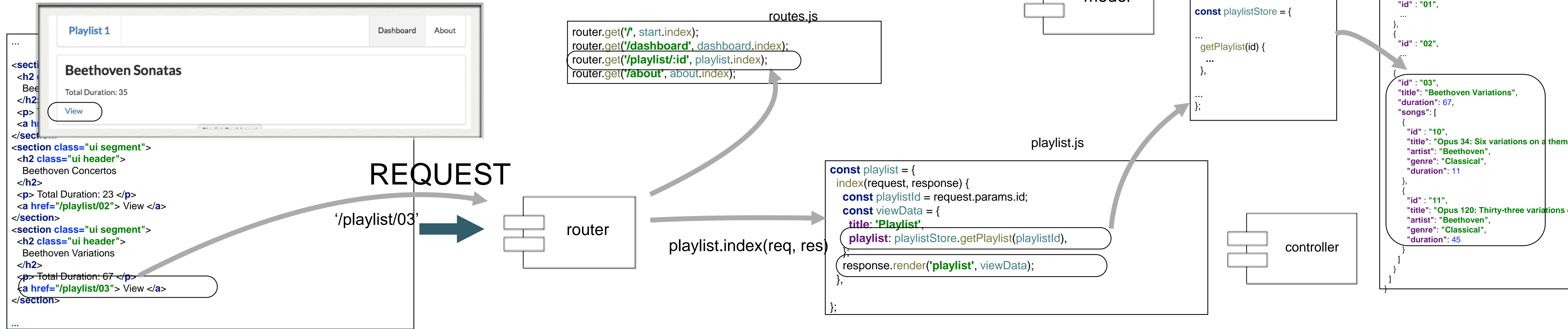
REQUEST

‘/playlist/03’





<https://playlist-2.glitch.me/dashboard>



Playlist 1

DashboardAbout

Beethoven Sonatas

Total Duration: 35

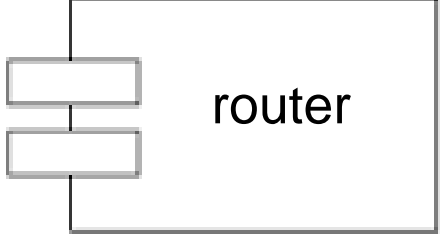
View

```
<section class="ui segment">
  <h2 class="ui header">
    Beethoven Concertos
  </h2>
  <p> Total Duration: 23 </p>
  <a href="/playlist/02"> View </a>
</section>
<section class="ui segment">
  <h2 class="ui header">
    Beethoven Variations
  </h2>
  <p> Total Duration: 67 </p>
  <a href="/playlist/03"> View </a>
</section>
...

```

REQUEST

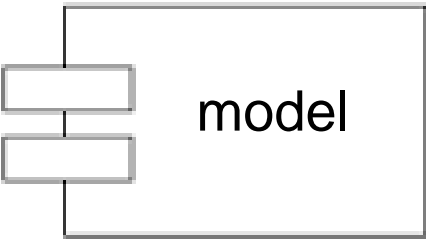
‘/playlist/03’



playlist.index(req, res)

```
routes.js
router.get('/', start.index);
router.get('/dashboard', dashboard.index);
router.get('/playlist/:id', playlist.index);
router.get('/about', about.index);

```

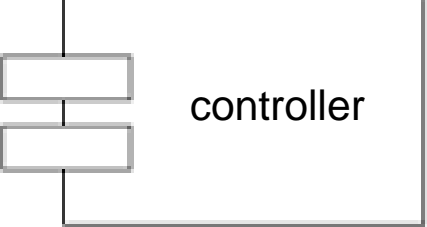


```
const playlistStore = {
  ...
  getPlaylist(id) {
    ...
  },
  ...
};

```

```
{
  "playlistCollection": [
    {
      "id" : "01",
      ...
    },
    {
      "id" : "02",
      ...
    },
    {
      "id" : "03",
      "title": "Beethoven Variations",
      "duration": 67,
      "songs": [
        {
          "id" : "10",
          "title": "Opus 34: Six variations on a theme from the 'Moonlight' Sonata",
          "artist": "Beethoven",
          "genre": "Classical",
          "duration": 11
        },
        {
          "id" : "11",
          "title": "Opus 120: Thirty-three variations for Anna Agnes Bach",
          "artist": "Beethoven",
          "genre": "Classical",
          "duration": 45
        }
      ]
    }
  ]
}

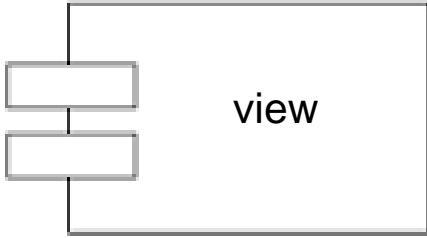
```



```
playlist.js
const playlist = {
  index(request, response) {
    const playlistId = request.params.id;
    const viewData = {
      title: 'Playlist',
      playlist: playlistStore.getPlaylist(playlistId),
    };
    response.render('playlist', viewData);
  },
};

```

response.render('playlist', viewData);



```
playlist.hbs
<{{> menu}}>
<section class="ui segment">
  <h2 class="ui header">
    {{playlist.title}}
  </h2>
  <{{> listsongs}}>
</section>

```

```
listsongs.hbs
<table class="ui table">
  <thead>
    <tr>
      <th>Song</th>
      <th>Artist</th>
      <th></th>
    </tr>
  </thead>
  <tbody>
    <{{#each playlist.songs}}>
      <tr>
        <td>
          {{title}}
        </td>
        <td>
          {{artist}}
        </td>
        <td>
          {{duration}}
        </td>
      </tr>
    </tbody>
  </table>

```

```
viewData = {
  title: 'Playlist',
  playlist: {
    "id" : "03",
    "title": "Beethoven Variations",
    "duration": 67,
    "songs": [
      {
        "id" : "10",
        "title": "Opus 34: Six variation...",
        "artist": "Beethoven",
        "genre": "Classical",
        "duration": 11
      },
      {
        "id" : "11",
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