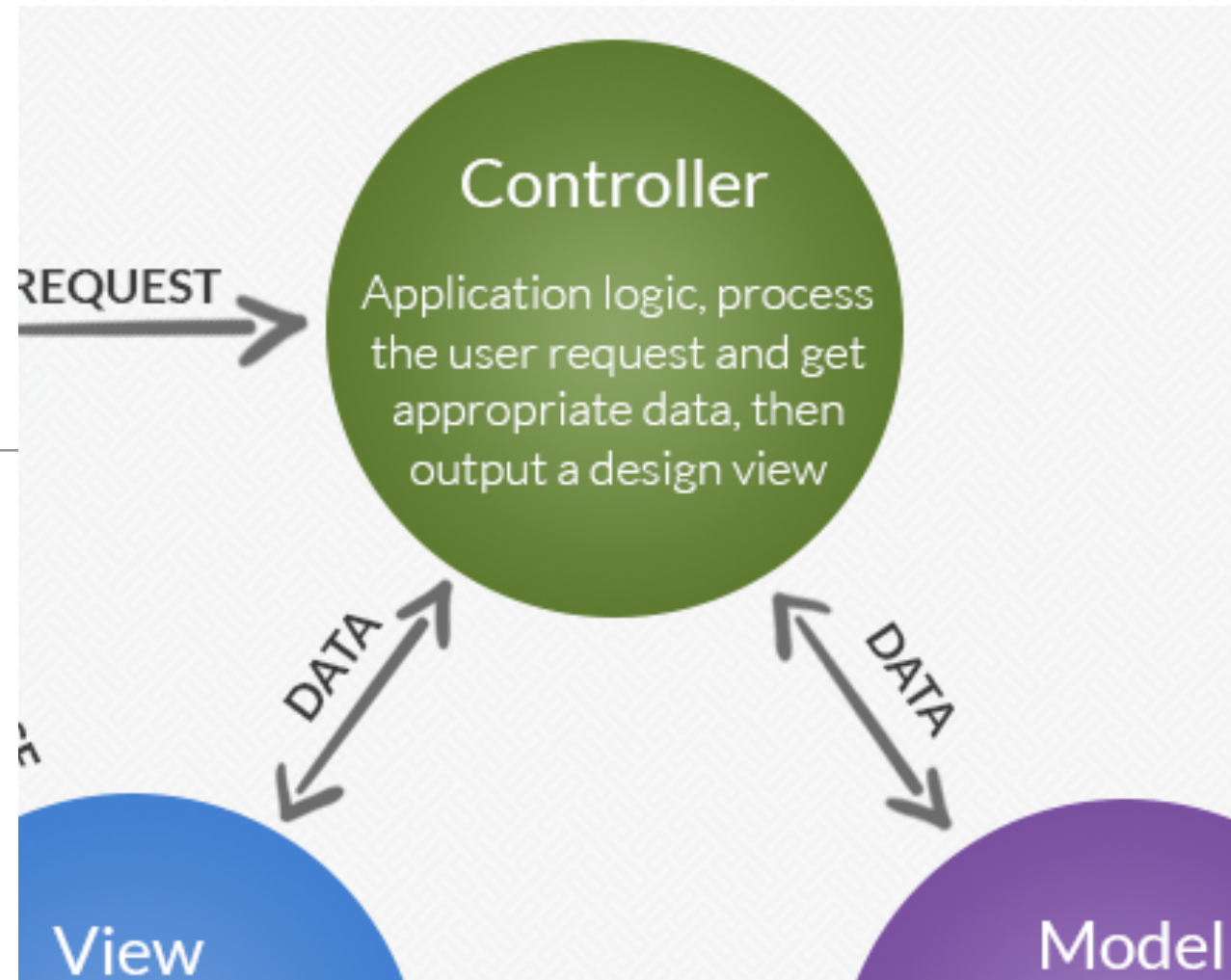# Playlist Controllers

# Playlist Features

Open playlists in separate view

Delete Song

Delete Playlist

Add Song

Add Playlist

# Feature: Open playlists in separate view

**Beethoven Sonatas**

Total Duration: 35

View

**Beethoven Concertos**

Total Duration: 23

View

**Beethoven Variations**

Total Duration: 67

View

**Beethoven Sonatas**

| Song | Artist |
|------|--------|
| Piano Sonata No. 3 | Beethoven |
| Piano Sonata No. 7 | Beethoven |
| Piano Sonata No. 10 | Beethoven |

# Dashboard

Retrieve all playlists
Send to dashboard

```java
public class Dashboard extends Controller
{
  public static void index()
  {
    Logger.info("Rendering Admin");

    List<Playlist> playlists = Playlist.findAll();
    render ("dashboard.html", playlists);
  }
}
```

**Beethoven Sonatas**

Total Duration: 35

View

**Beethoven Concertos**

Total Duration: 23

View

**Beethoven Variations**

Total Duration: 67

View

```html
#{extends 'main.html' /}
#{set title:'Dashboard' /}

#{menu id:"dashboard"/}

#{list items:playlists, as:'playlist'}
  <section class="ui segment">
    <h2 class="ui header">
      ${playlist.title}
    </h2>
    <p> Total Duration: ${playlist.duration} </p>
    <a href="/playlists/${playlist.id}"> View </a>
  </section>
#{/list}
```

# /playlists route Not Found

## Beethoven Variations

Total Duration: 67

View

```
#{extends 'main.html' /}
#{set title:'Dashboard' /}

#{menu id:"dashboard"/}

#{list items:playlists, as:'playlist'}
  <section class="ui segment">
    <h2 class="ui header">
      ${playlist.title}
    </h2>
      <p> Total Duration: ${playlist.duration} </p>
      <a href="/playlists/${playlist.id}"> View </a>
  </section>
#{/list}
```

localhost:9000/playlist/2

## Not found

playlist.1 action not found

These routes have been tried, in this order :

```
1.  GET      /@projectdocs/files/{name}                              ProjectDocumentation.file
2.  GET      /@projectdocs/images/{name}                             ProjectDocumentation.image
3.  GET      /@projectdocs/{id}                                      ProjectDocumentation.page
4.  GET      /@projectdocs/?                                         ProjectDocumentation.index
5.  GET      /@documentation/{docLang}/cheatsheet/{category}         PlayDocumentation.cheatSheet
6.  GET      /@documentation/cheatsheet/{category}                   PlayDocumentation.cheatSheet
7.  GET      /@documentation/modules/{module}/files/{name}           PlayDocumentation.file
8.  GET      /@documentation/modules/{module}/images/{name}          PlayDocumentation.image
9.  GET      /@documentation/{docLang}/releases/{version}/{id}       PlayDocumentation.releases
10. GET      /@documentation/{docLang}/releases/{id}                 PlayDocumentation.releases
11. GET      /@documentation/{docLang}/modules/{module}/{id}         PlayDocumentation.page
12. GET      /@documentation/{docLang}/files/{name}                  PlayDocumentation.file
13. GET      /@documentation/{docLang}/images/{name}                 PlayDocumentation.image
14. GET      /@documentation/files/{name}                            PlayDocumentation.file
```

# PlaylistCtrl Controller

localhost:9000/playlist/2

## id of playlist

```java
public class PlaylistCtrl extends Controller
{
  public static void index()
  {
    render("playlist.html");
  }
}
```

PlaylistCtrl.java

```html
#{extends 'main.html' /}
#{set title:'Playlist' /}

#{menu id:"dashboard"/}

<section class="ui segment">
  <h2 class="ui header">
    Playlist details...
  </h2>
</section>
```
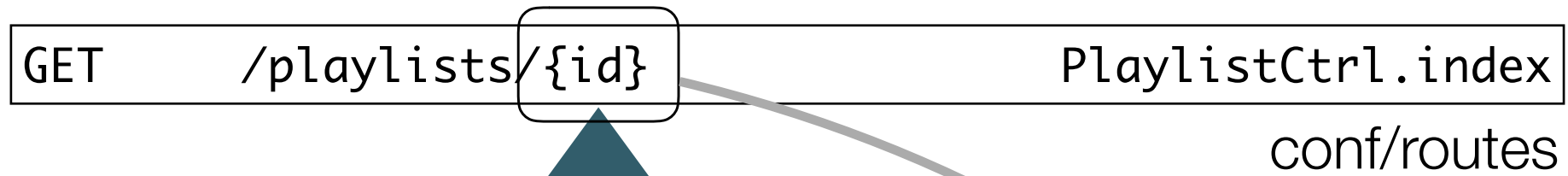
playlist.html

Playlist                                                    Dashboard    About

Playlist details...

# PlaylistCtrl Controller

```
GET       /playlists/{id}                    PlaylistCtrl.index
```

conf/routes

**id of playlist**

Find Playlist with
selected ID

```java
public class PlaylistCtrl extends Controller
{

  public static void index(Long id)
  {
    Playlist playlist = Playlist.findById(id);
    Logger.info ("Playlist id = " + id);
    render("playlist.html", playlist);
  }
}
```

Send Playlist to
View

# Playlist Views

```
#{extends 'main.html' /}
#{set title:'Playlist' /}

#{menu id:"dashboard"/}

<section class="ui segment">
  <h2 class="ui header">
    ${playlist.title}
  </h2>
  #{listsongs  playlist:playlist  /}
</section>
```

```
<table class="ui fixed table">
  <thead>
    <tr>
      <th>Song</th>
      <th>Artist</th>
      <th>Duration</th>
    </tr>
  </thead>
  <tbody>
    #{list  items:_playlist.songs,  as:'song'}
      <tr>
        <td>
          ${song.title}
        </td>
        <td>
          ${song.artist}
        </td>
        <td>
          ${song.duration}
        </td>
      </tr>
    #{/list}
  </tbody>
</table>
```

## Beethoven Sonatas

| Song | Artist |
|------|--------|
| Piano Sonata No. 3 | Beethoven |
| Piano Sonata No. 7 | Beethoven |
| Piano Sonata No. 10 | Beethoven |

# Feature : Delete Song

## Beethoven Sonatas

| Song | Artist | |
|------|--------|---|
| Piano Sonata No. 3 | Beethoven | **Delete Song** |
| Piano Sonata No. 7 | Beethoven | **Delete Song** |
| Piano Sonata No. 10 | Beethoven | **Delete Song** |

# Delete Song Button

## Beethoven Sonatas

| Song | Artist | |
|------|--------|--|
| Piano Sonata No. 3 | Beethoven | Delete Song |
| Piano Sonata No. 7 | Beethoven | Delete Song |
| Piano Sonata No. 10 | Beethoven | Delete Song |

```
<td>
  <a href="/playlists/${_playlist.id}/deletesong/${song.id}" class="ui tiny red button"> Delete Song </a>
</td>
```

# Delete Song Route

```html
<td>
  <a href= '/playlists/${_playlist.id}/deletesong/${song.id}' class="ui tiny red button"> Delete Song </a>
</td>
```

listsongs.html

```
GET    /playlists/{id}/deletesong/{songid}    PlaylistCtrl.deleteSong
```

conf/routes

```java
public static void deletesong (Long id,     Long songid)
{
  Playlist playlist = Playlist.findById(id);
  Song song = Song.findById(songid);
  Logger.info ("Removing" + song.title);
  playlist.songs.remove(song);
  playlist.save();
  song.delete();
  render("playlist.html", playlist);
}
```

PlaylistCtrl.java

# Delete Song Action

Find the Playlist

Find the song

Remove the song from the
playlist collection
Save the collection

remove the song from the
database

Display the revised playlist

```java
public static void deletesong (Long id,    Long songid)
{
  Playlist playlist = Playlist.findById(id);

  Song song = Song.findById(songid);


  playlist.songs.remove(song);
  playlist.save();


  song.delete();


  render("playlist.html", playlist);
}
```

PlaylistCtrl.java

# Feature: Delete Playlist

**Bethoven Sonatas**

Total Duration: 19

**Bethoven Sonatas**

Total Duration: 19



```
#{extends 'main.html' /}
#{set title:'Dashboard' /}

#{menu id:"dashboard"/}

#{list items:playlists, as:'playlist'}
  <section class="ui segment">
    <h2 class="ui header">
      ${playlist.title}
    </h2>
      <p> Total Duration: ${playlist.duration} </p>
      <a href="/playlists/${playlist.id}" class="ui icon button">
        <i class="icon folder open"></i>
      </a>
      <a href="/dashboard/deleteplaylist/${playlist.id}" class="ui icon button">
        <i class="icon trash"></i>
      </a>
  </section>
#{/list}
#{addplaylist /}
```

| GET | /dashboard/deleteplaylist/{id} | Dashboard.deletePlaylist |

```
GET        /dashboard/deleteplaylist/{id}              Dashboard.deletePlaylist
```

```java
public class Dashboard extends Controller
{
  ...

  public static void deletePlaylist (Long id)
  {
    Playlist playlist = Playlist.findById(id);
    Logger.info ("Removing" + playlist.title);
    playlist.delete();
    redirect ("/dashboard");
  }
}
```

# Feature: Add Song

## Bethoven Sonatas

| Song | Artist | Duration | |
|------|--------|----------|---|
| Piano Sonata No. 3 | Beethoven | 5 | Delete Song |
| Piano Sonata No. 7 | Beethoven | 6 | Delete Song |

**Title**

Title

**Artist**

Artist

**Duration**

Duration

Add Song

# playlist.html

```
#{extends 'main.html' /}
#{set title:'Playlist' /}

#{menu id:"dashboard"/}

<section class="ui segment">
  <h2 class="ui header">
    ${playlist.title}
  </h2>
  #{listsongs playlist:playlist /}
  #{addsong playlist:playlist /}
</section>
```

## Bethoven Sonatas

| Song | Artist | Duration | |
|------|--------|----------|---|
| Piano Sonata No. 3 | Beethoven | 5 | Delete Song |
| Piano Sonata No. 7 | Beethoven | 6 | Delete Song |

**Title**

Title

**Artist**

Artist

**Duration**

Duration

Add Song

```
<form class="ui stacked segment form" action="/playlists/${_playlist.id}/addsong" method="POST">
  <div class="two fields">
    <div class="field">
      <label>Title</label>
      <input placeholder="Title" type="text" name="title">
    </div>
    <div class="field">
      <label>Artist</label>
      <input placeholder="Artist" type="text" name="artist">
    </div>
    <div class="field">
      <label>Duration</label>
      <input placeholder="Duration" type="number" name="duration">
    </div>
  </div>
  <button class="ui blue submit button">Add Song</button>
</form>
```

```html
<form class="ui stacked segment form" action="/playlists/${_playlist.id}/addsong" method="POST">
  <div class="two fields">
    <div class="field">
      <label>Title</label>
      <input placeholder="Title" type="text" name="title">
    </div>
    <div class="field">
      <label>Artist</label>
      <input placeholder="Artist" type="text" name="artist">
    </div>
    <div class="field">
      <label>Duration</label>
      <input placeholder="Duration" type="number" name="duration">
    </div>
  </div>
  <button class="ui blue submit button">Add Song</button>
</form>
```

```
POST        /playlists/{id}/addsong              PlaylistCtrl.addSong
```

```java
public class PlaylistCtrl extends Controller
{
  ...

  public static void addSong(Long id, String title, String artist, int duration)
  {
    Song song = new Song(title, artist, duration);
    Playlist playlist = Playlist.findById(id);
    playlist.songs.add(song);
    playlist.save();
    redirect ("/playlists/" + id);
  }
}
```

# Feature: Add Playlist

## Bethoven Sonatas

Total Duration: 19

## Bethoven Concertos

Total Duration: 23

## Beethoven Variations

Total Duration: 26

**Title**

Title

**Add Playlist**

# dashboard.html

```
#{extends 'main.html' /}
#{set title:'Dashboard' /}

#{menu id:"dashboard"/}

#{list items:playlists, as:'playlist'}
  <section class="ui segment">
    <h2 class="ui header">
      ${playlist.title}
    </h2>
      <p> Total Duration: ${playlist.duration} </p>
      <a href="/playlists/${playlist.id}" class="ui icon button">
        <i class="icon folder open"></i>
      </a>
      <a href="/dashboard/deleteplaylist/${playlist.id}" class="ui icon button">
        <i class="icon trash"></i>
      </a>
  </section>
#{/list}
#{addplaylist /}
```

**Bethoven Sonatas**

Total Duration: 19

**Bethoven Concertos**

Total Duration: 23

**Beethoven Variations**

Total Duration: 26

Title

Title

Add Playlist

```
<form class="ui stacked segment form" action="/dashboard/addplaylist" method="POST">
  <div class="field">
    <label>Title</label>
    <input placeholder="Title" type="text" name="title">
  </div>
  <button class="ui blue submit button">Add Playlist</button>
</form>
```

```html
<form class="ui stacked segment form" action="/dashboard/addplaylist" method="POST">
  <div class="field">
    <label>Title</label>
    <input placeholder="Title" type="text" name="title">
  </div>
  <button class="ui blue submit button">Add Playlist</button>
</form>
```

```
POST        /dashboard/addplaylist              Dashboard.addPlaylist
```

```java
public class Dashboard extends Controller
{
  ...

  public static void addPlaylist (String title)
  {
    Playlist playlist = new Playlist (title, 0);
    Logger.info ("Adding a new playlist called " + title);
    playlist.save();
    redirect ("/dashboard");
  }
}
```