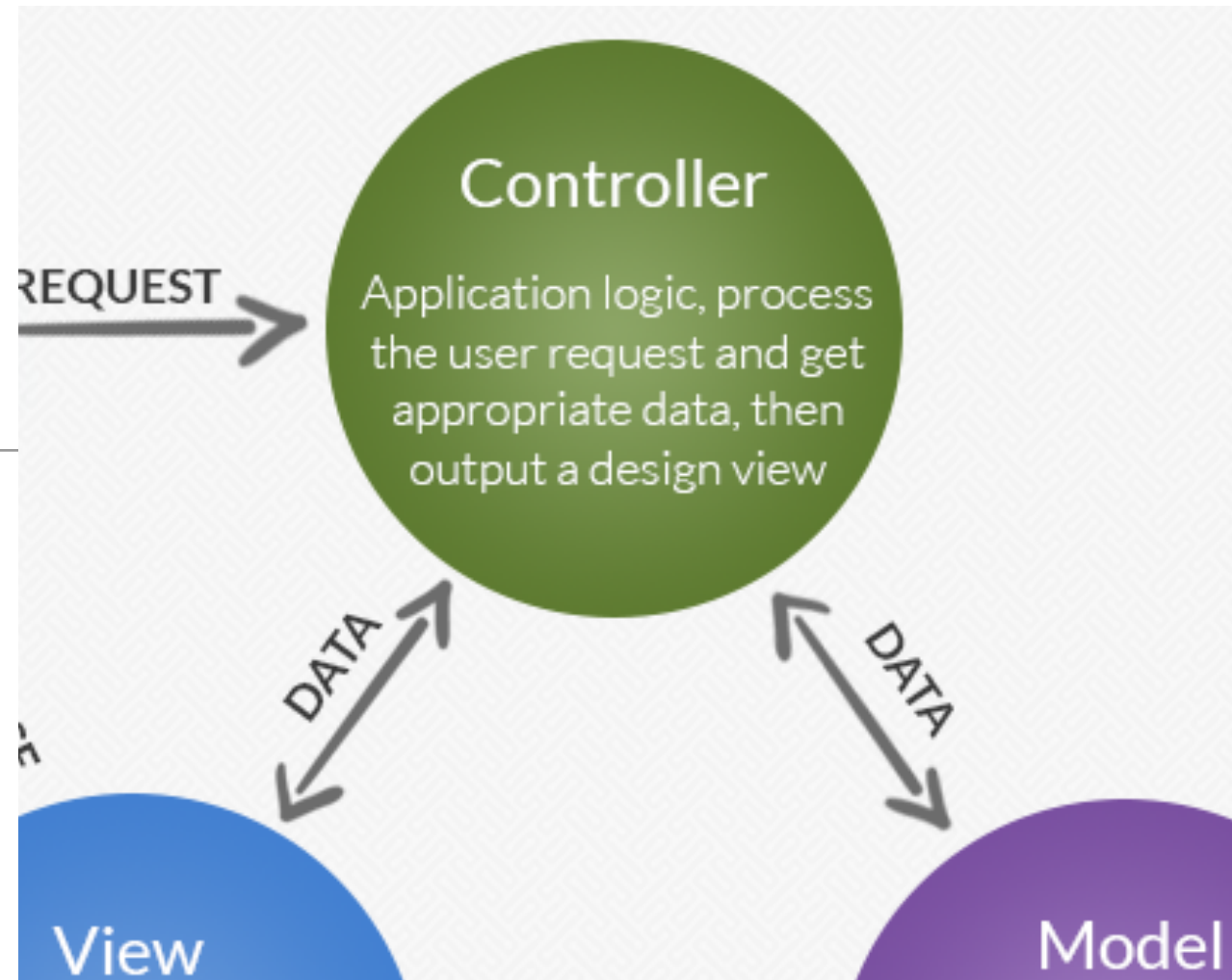# Playlist Controllers

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

localhost:9000/playlist/2

```
#{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}
```

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>
```
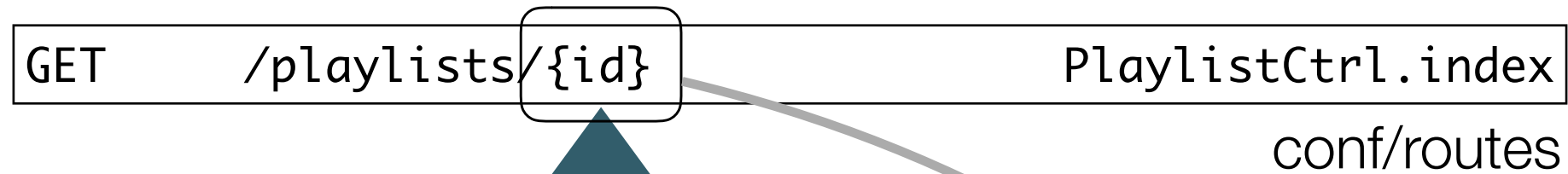
playlist.html

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 | Artist | Duration

Title | Artist | 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");
  }
}
```