

# Laravel for Beginners

## 04

Building a Resource Controller incl. Routes  
and all Views on top of it

# Create a Resource Controller

- Create a Resource Controller with all standard methods to manipulate songs (= the resource)

```
php artisan make:controller SongController --resource
```

- This generates the following standard methods:
  - `index()` ... display a listing of all songs
  - `create()` ... show a view/form for creating a new song
  - `store(Request $request)` ... store the entered song data as song in the DB
  - `show($id)` ... display a specific song
  - `edit($id)` ... show the view/form for editing/changing an existing song
  - `update(Request $request, $id)` ... update/save the changed song in the DB
  - `destroy($id)` ... remove a specific song from the DB
- Use the Song Class in the SongController:

```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use App\Song;
```

# Show a list of all songs

- Add a route to the index() method in /routes/web.php:

```
Route::get('songs', 'SongController@index')->name('songs.index');
```

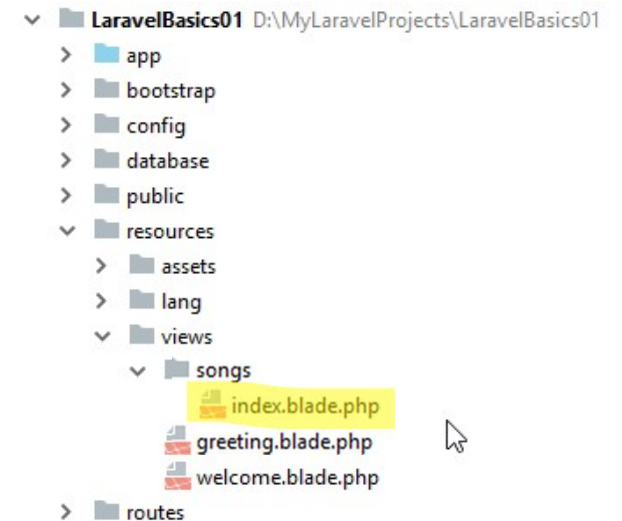
- Check the route in the routing table:

php artisan route:list

- Fill the index() method with the following code:

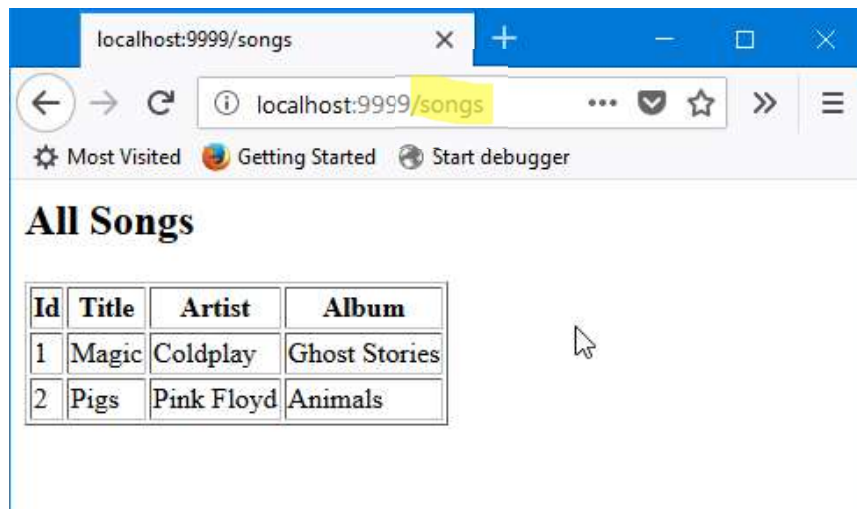
```
public function index()
{
    $songs = Song::all();
    return view('songs.index')->with('songs', $songs);
}
```

- Create a view index.blade.php in the folder /resources/views/songs:



# index-View and Route

- The code of the index.blade.php view should look like this:
- And you can browse to the list:



```
<html>
<body>
<h2>All Songs</h2>
<table border="1">
  <thead>
    <th>Id</th>
    <th>Title</th>
    <th>Artist</th>
    <th>Album</th>
  </thead>
  <tbody>
    @foreach($songs as $s)
      <tr>
        <td>{{ $s->id }}</td>
        <td>{{ $s->title }}</td>
        <td>{{ $s->artist }}</td>
        <td>{{ $s->album }}</td>
      </tr>
    @endforeach
  </tbody>
</table>
</body>
</html>
```