Bootstrapping the Angular Application

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Previous Module

Node.JS

Yarn

Angular CLI (NG CLI)

Swagger CodeGen

Twitter Bootstrap

Chrome

Overview

Bootstrap our Angular application

Angular CLI

Project directory structure

Configuration files

Compile and package

Twitter Bootstrap

Bootstrapping an Angular Application

1. **Create an application directory**

2. **Create Node.JS directory structure**

3. **Configuration files**

4. **Install Angular dependencies**

5. **Add some TypeScript code**

```
$ ng

$ ng new bookstore-front

$ ng generate component book-list

$ ng generate service book-service

$ ng help
```

Angular CLI

Node.JS Directory Structure

▼ bookstore-front

  ▶ node_modules   **Dependencies folder**

  ▼ src

    ▼ app

      app.component.html   **Main component**

      app.component.ts

      app.module.ts   **Main module**

      app-routing.module.ts   Routing

    index.html   **Entry point**

  .angular-cli.json   **Angular CLI Configuration**

  package.json   **Configuration and dependencies**

  yarn.lock   Yarn configuration

Angular Dependencies

```json
{
  "name": "bookstore-front",
  "version": "1.0.0",
  "scripts": {
    "start": "ng serve "
  },
  "dependencies": {
    "@angular/common": "^4.1.0",
    "@angular/compiler": "^4.1.0",
    "@angular/core": "^4.1.0",
    "bootstrap": "4.0.0-alpha.6"
  }
}
```

package.json

Demo

ng new
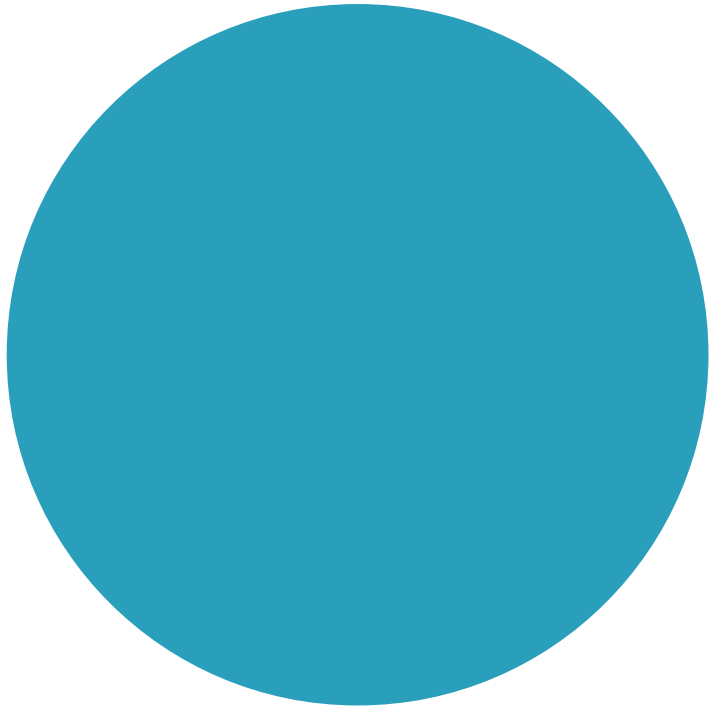
bookstore-front

--prefix bs

--skip-tests

--skip-e2e

--inline-style

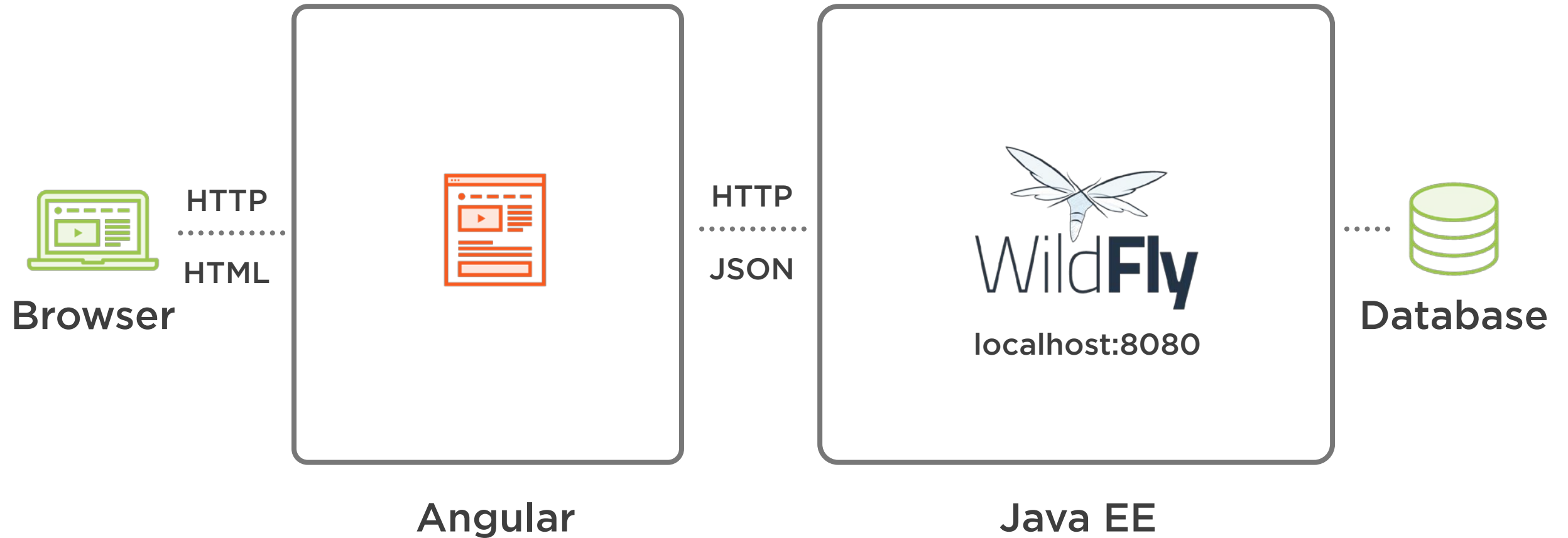--routing true

Running the Angular Application

Web server

Express

Feedback loop

- Update code

- Transpile TypeScript into JavaScript

- Reload the resources

- Refresh the browser

BookStore Application Deployment

Browser — HTTP / HTML — Angular — HTTP / JSON — WildFly localhost:8080 (Java EE) — Database

BookStore Application Deployment

Browser — HTTP / HTML — express localhost:4200 — HTTP / JSON — WildFly localhost:8080 — Database

Angular   Java EE

Adding BootStrap

External dependency
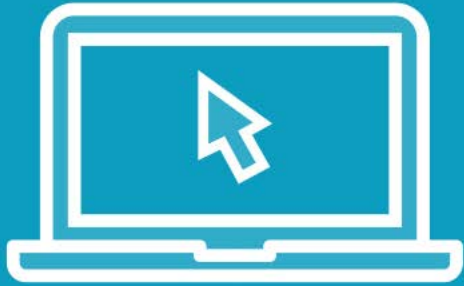
Add it to package.json

Yarn download and install

Add BootStrap CSS and JS files

Add BootStrap components in HTML

Demo

ng serve

localhost:4200

Yarn to add Bootstrap

Update configuration files

Update HTML and TS components

Summary

Angular CLI

Node.JS

Appropriate package.json

Angular dependencies

Yarn

Run in Express

Next Module

Graphical components

List all the books

Details of one book

Form to create a new book

ng generate component