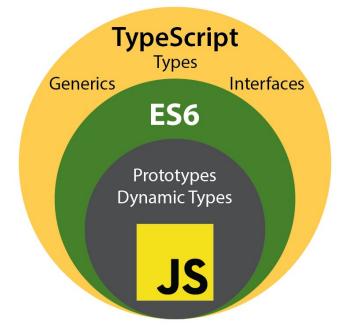
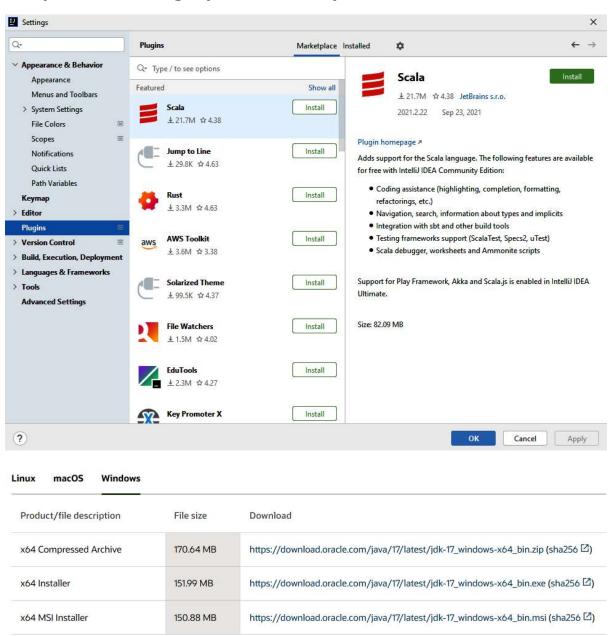
Chapter 1: Spring Boot and Angular- The Big Picture





Chapter 2: Setting Up the Development Environment

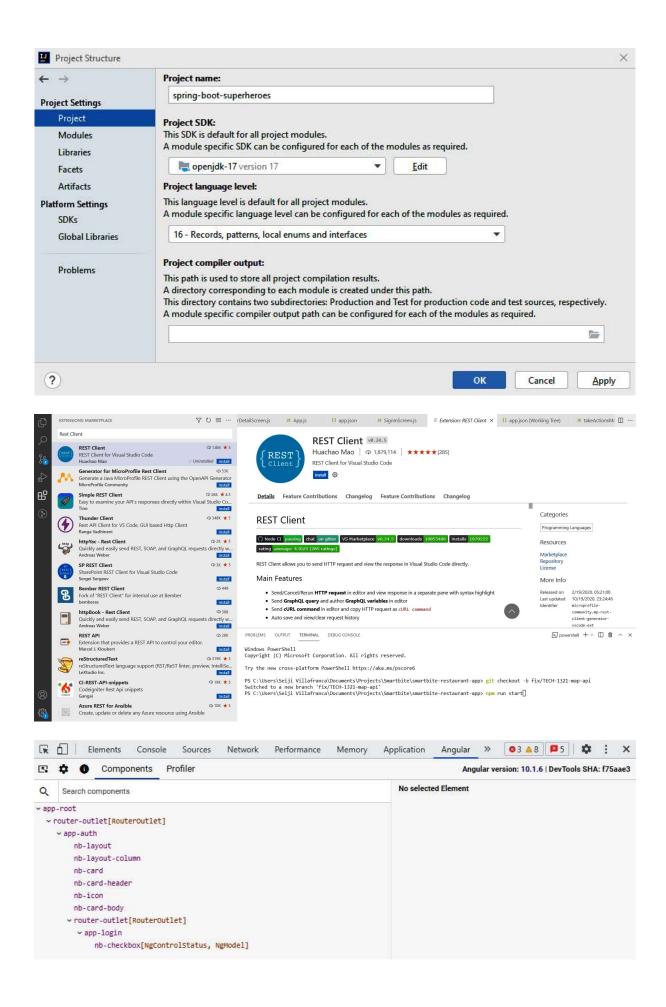
🛃 Java(TM) SE Development Kit 17 (64-bit) - Setup

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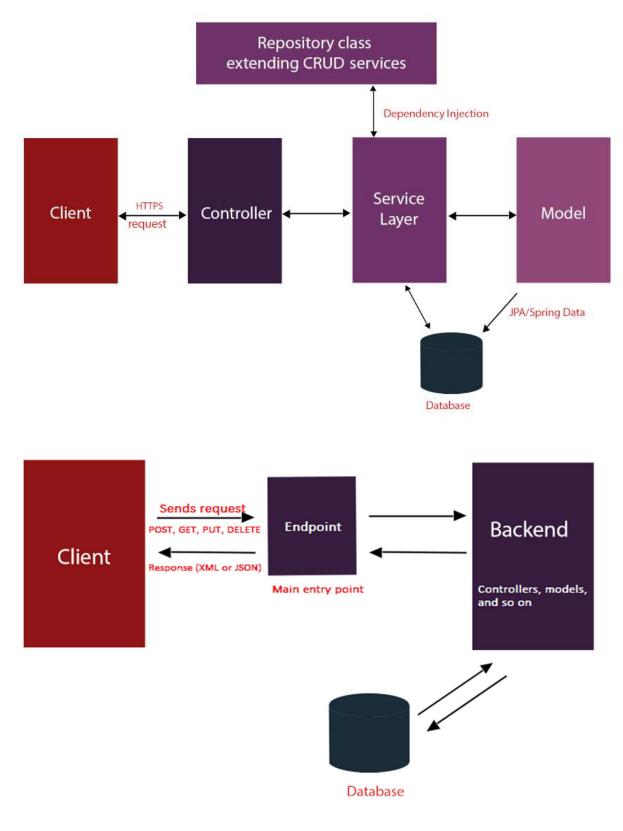


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| lava(1 | M) SE Development Kit 17 (64-bit), including a private JRE and | src zin |
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| the ins | tallation folder. | |
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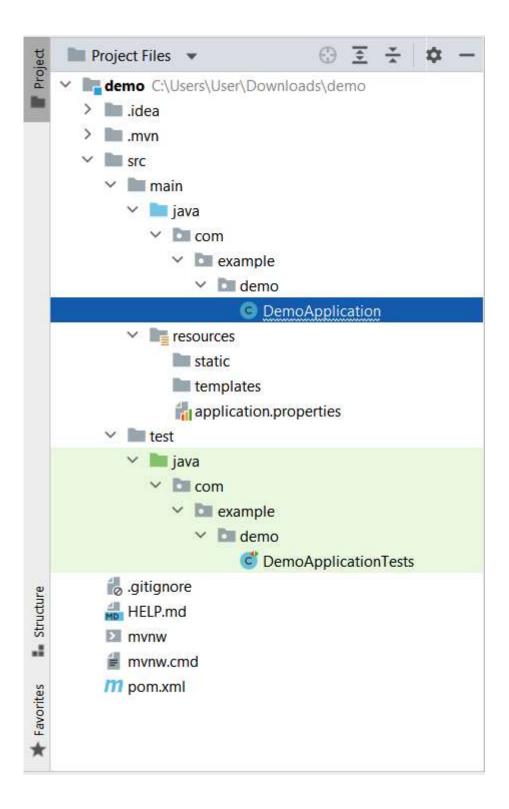
| 📲 Java | Project SDK: 🚬 openjdk-17 | version 17 |
|----------------------------------|---|--------------------------------|
| Maven | Additional Libraries and Framev | vortr |
| 🗬 Gradle | G Groovy | VURS. |
| Android IntelliJ Platform Plugin | Kotlin/JVM | |
| JavaFX | | |
| Groovy | O <u>U</u> se library: | [No library selected] 💌 Create |
| Kotlin | (<u>D</u> ownload | |
| Empty Project | 29 JARs will be downloaded int Project library groovy-4.0.0-beta | Contigure |



Chapter 3: Moving into Spring Boot



| \equiv | Project | | Language | | Dependencies | ADD DEPENDENCIES CTRL + B | ¢. |
|----------|---|--------------------------|--------------------|-----------|--|--|-----------|
| | Maven Project Gradle Project | | 🔵 Java 🔘 Kotlin | O Groovy | | | |
| | | | | | No dependency selected | | |
| | Spring Boot O 2.6.0 (SNAPSHO | T) O 2.6.0 (RC1) | O 2.5.7 (SNAPSHOT) | 2.5.6 | | | |
| | O 2.4.13 (SNAPSHO | | | | | | |
| | Project Metadata | | | | | | |
| | Group co | om.example | | | | | |
| | Artifact de | emo | | | | | |
| | Name de | emo | | | | | |
| | _ | | a | | <i>i</i> | | |
| | Description De | emo project for Spring E | Boot | | | | |
| | Package name co | om.example.demo | | | | | |
| | Packaging | Jar 🔿 War | | | | | |
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| _ | Maven Project Gradle Project | | Java 🔿 Kotlin 🤇 |) Groovy | Java annotation library which helps | to reduce boilerplate code. | C |
| | Spring Boot | | | | Spring Web WEB | | |
| | 2.6.0 (SNAPSHOT) |) O 2.6.0 (RC1) (| 2.5.7 (SNAPSHOT) | 0 2.5.6 | Build web, including RESTful, application as the default embedded container. | ations using Spring MVC. Uses Apache Tomcat | |
| | O 2.4.13 (SNAPSHOT | C) O 2.4.12 | | | | | |
| | Project Metadata | | | | Spring Data JPA SOL Persist data in SQL stores with Java | a Persistence API using Spring Data and | |
| | Group con | n.example | | | Hibernate. | | |
| | Artifact den | no | | | PostgreSQL Driver SQL | | |
| | Name den | no | | | A JDBC and R2DBC driver that allo database using standard, database i | ows Java programs to connect to a PostgreSQL independent Java code. | |
| | Description Der | no project for Spring Bo | ot | | Spring Data Reactive Redis | NOSQL | |
| | Package name con | n.example.demo | | | Access Redis key-value data stores | in a reactive fashion with Spring Data Redis. | |
| | 1005 | | | | Spring Security SECURITY | | |
| | | Jar () War | | | Highly customizable authentication applications. | and access-control framework for Spring | |
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Chapter 4: Setting Up the Database and Spring Data JPA

Download PostgreSQL

Free PostgreSQL packages and installers from EDB

| | Linux x86-64 | Linux x86-32 | Mac OS X | Windows x86-64 | Windows x86-32 |
|------------------------|---|----------------------------|----------|----------------|----------------|
| 14.1 | N/A | N/A | Download | Download | N/A |
| 13.5 | N/A | N/A | Download | Download | N/A |
| 12.9 | N/A | N/A | Download | Download | N/A |
| 11.14 | N/A | N/A | Download | Download | N/A |
| 10.19 | Download | Download | Download | Download | Download |
| 9.6.24 (Not supported) | Download | Download | Download | Download | Download |
| 9.5.25 (Not supported) | Download | Download | Download | Download | Download |
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| Installa | ation Directory | | | - | |
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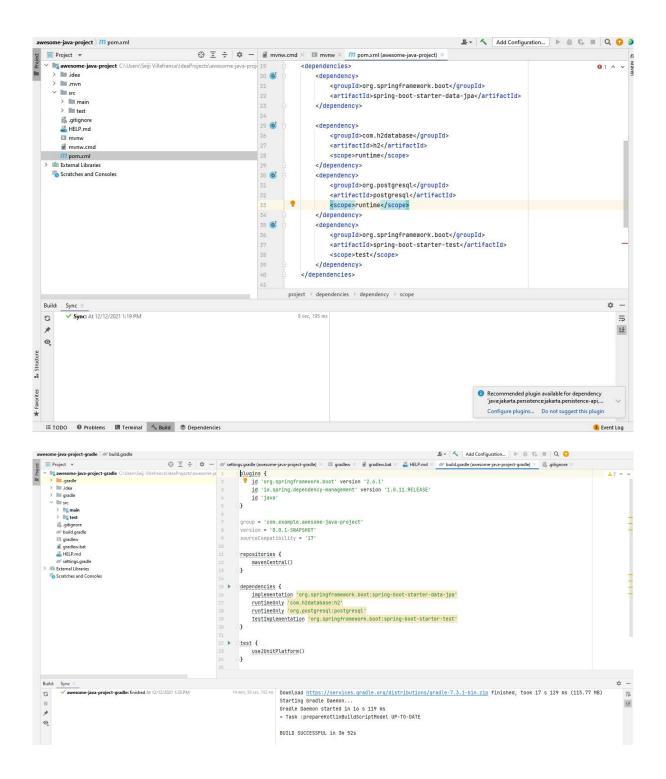
| 💕 Setup | | | |
|---|------------------------------|----------------------|----------------|
| Select Components | | | |
| Select the components you want to install; dea you are ready to continue. | ar the components you do not | t want to install. C | lick Next when |
| PostgreSQL Server pgAdmin 4 Stack Builder Command Line Tools | Click on a compone | ent to get a detaile | ed description |
| Mware InstallBuilder | < Back | Next > | Cancel |
| 🛒 Setup | < Back | - 🗆 | X |
| Data Directory | | | |
| Please select a directory under w | hich to store your data. | | |
| Data Directory Data Directory | PostgreSQL \14\data | 2 | |
| VMware InstallBuilder | | | |

| Setup |) | | 9 <u>222</u> | |
|--------|---|------------------|--------------|--|
| Advanc | ed Options | | | |
| | he locale to be used by [Default locale] | the new database | duster. | |
| | | | | |
| | | | | |

| Server [localhost]: |
|---|
| Database [postgres]: |
| Port [5432]: |
| Username [postgres]: |
| Password for user postgres: |
| psql (13.4) |
| WARNING: Console code page (437) differs from Windows code page (1252) 8-bit characters might not work correctly. See psql reference page "Notes for Windows users" for details. Type "help" for help. |
| postgres=# select version(); version |
| PostgreSQL 13.4, compiled by Visual C++ build 1914, 64-bit (1 row) |
| postgres=# |

C:\Users\Seiji Villafranca>docker ps -a CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES fccc91ee479f postgres "docker-entrypoint.s..." About a minute ago Up About a minute 5432/tcp, 0.0.0.0:5434->5434 /tcp postgresql-container C:\Users\Seiji Villafranca>

| | r∕docker | | Upgrade | • | E Sign in | - 🗆 | × |
|---|---|---|---|-----------------------------|--------------------------------|----------|---|
| ۲ | Containers / Apps | Q Search | | | | | |
| Ø | Images | postgresql-contain RUNNING PORT 5434 | er postgres | | | | |
| 6 | Volumes | | | | | | |
| ۲ | Dev Environments PREVIEW | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | <u>19</u> | | | | | ſ | ä |
| Ξ | C spring initializ | r | | | | ĺ | ¢ |
| | Project Maven Project O Gradie Project | Language Java O Kotlin O Groovy | Dependencies | | ADD DEPENDENCIES. | CTRL + B | |
| | Spring Boot O 2.6.2 (SNAPSHOT) 0 2.6.1 | 2.5.8 (SNAPSHOT) 0 2.5.7 | Spring Data JPA sol | | using Spring Data and Hibernat | ie. | |
| | Project Metadata | | | | BC API and R2DBC access, w | | |
| | Group com.example.awesom | | (2mb) footprint. Supports e application. | embedded and server mod | es as well as a browser based | console | |
| | Name awesome-java-project | | | r that allows Java programs | s to connect to a PostgreSQL (| database | |
| | Description Demo project for Spri | ng Boot | using standard, database in | dependent Java code. | | | |
| | Package name com.example.awesom | e-java-project.awesome-java-project | | | | | |
| | Packaging 🌘 Jar 🔿 War | | | | | | |
| | Java 🌑 17 🔿 11 🔿 | 8 | | | | | |
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| ¥ | | GENERATE CTRL + d EXPL | ORE CTRL + SPACE | SHARE | | | |



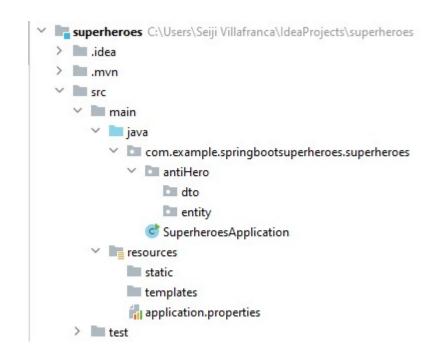
Chapter 5: Building APIs with Spring

| v | superheroes C:\Users\Seiji Villafranca\IdeaProjects\superheroes |
|---|---|
| | > 🖿 .idea |
| | > mvn |
| | ✓ Im src |
| | Y 🖿 main |
| | 🗸 🖿 java |
| | ✓ ➡ com.example.springbootsuperheroes.superheroes |
| | Contraction Contraction |
| | Y resources |
| | static |
| | templates |
| | 🚮 application.properties |
| | > 🖿 test |
| | > 🖿 target |
| | 👩 .gitignore |
| | HELP.md |
| | M mvnw |
| | i mvnw.cmd |
| | m pom.xml |
| > | IIII External Libraries |
| > | Scratches and Consoles |

| Browser 👔 🎟 🚡 🔍 | Dashboard Properties SQL Stat | tistics Dependencies | Dependents | | |
|---|-------------------------------|----------------------|----------------|--------------------|---------------|
| Servers (2) | Database sessions | | Transactions | Transactions 📕 Com | mits Rollback |
| Databases (3) | 1 | - 1 | per second | | |
| > 🔵 postgres | | | 2 | | |
| SpringDb SpringDevDb Login/Group Roles Tablespaces | 0 | | 1 | | |
| PostgreSQL 14 | | | 0 | | L |
| | Tuples Inserts Updates Delete | Tuples out 🗧 Fetch | ned 📕 Returned | Block I/O | 📕 Reads 📕 Hit |
| | in puaces belete | 300 | | 400 | |
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| eneral | Definition | Security | Parameters | Advanced | SQL | | | |
|---------|----------------------|----------------------------|------------|----------|-----|---------------------------------------|---------|--------|
| atabase | | Spri | ngDevDb | | | | | |
| wner | | A | postgres | | | | | , |
| ommen | t | | | | | | | |
| | | | | | | | | |
| i (? | | | | | , (| × Cancel | 🞝 Reset | B Save |
| 🔛 Ru | n/Debug Co | nfiguration | s | | | | | × |
| + - | | ↓a z | | | | | | |
| | No run conf Add n | igurations a new Insert | | | | / run configu in configurat | | |
| 0.000 | onfiguration | templates | | | | | | |

| Name: Unnamed | | Store as project file 🕸 |
|---------------------------|------------------------------------|---------------------------------|
| Build and run | | <u>M</u> odify options → Alt+M |
| java 17 SDK of 's | superheroes' module | • |
| com.example.sprin | gbootsuperheroes.superheroe | s.SuperheroesApplication |
| Program arguments | 1 | [_ " |
| Press Alt for field hints | | |
| Working directory: | C:\Users\Seiji Villafranca\IdeaPro | ijects\superheroes |
| Environment variables: | | |
| | Separate variables with semicolon | : VAR=value; VAR1=value1 |
| | | |
| | | OK Cancel Apply |
| | | ОК Cancel <u>A</u> pply |
| | | ОК Cancel <u>A</u> pply |



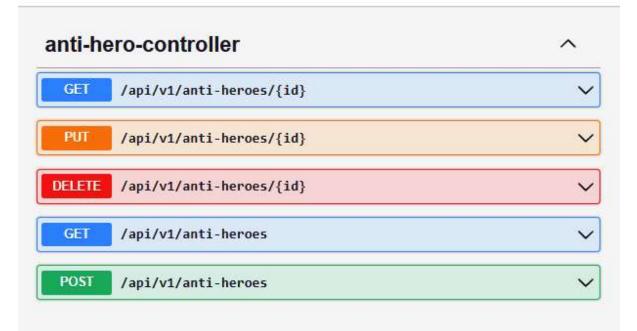
| New Entity | × |
|---------------------|---|
| Class: | AntiHeroEntity |
| Entity type: | Entity • |
| Parent: | |
| d: | |
| Generated strategy: | |
| Source root: | 🖿\src\main\java 🔹 |
| Package: | com.example.springbootsuperheroes.superheroes.antiHero.entity |
| ? 🌣 | OK Cancel |

Chapter 6: Documenting APIs with OpenAPI Specification



Servers

http://localhost:8080 - Generated server url 🗸



| Schemas | ^ |
|---------------|---|
| AntiHeroDto > | |
| | |

| POST | /api/v1/anti-heroes | ^ |
|--|---|--------------------|
| Paramete | ers | Try it out |
| No paran | neters | |
| Request | body ^{required} | application/json 🗸 |
| { "id": "first "lastN "house | <pre>/alue Schema "3fa85f64-5717-4562-b3fc-2c963f66afa6", Name": "string", ame": "string", ": "string", As": "string"</pre> | |
| Respons | es | |
| Code | Description | Links |
| 200 | OK Media type */* ~ Controls Accept header. Example Value Schema { "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6", "firstName": "string", "lastName": "string", "house": "string", "knownAs": "string" } | No links |

Responses

Curl

```
curl -X 'POST' \
    'http://localhost:8080/api/v1/anti-heroes' \
    -H 'accept: */*' \
    -H 'content-Type: application/json' \
    -d '{
    "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
    "firstName": "string",
    "lastName": "string",
    "house": "string",
    "knownAs": "string"
}
```

Request URL

http://localhost:8080/api/v1/anti-heroes

Server response

| Code | Details | | |
|------|--|---|----------|
| 200 | Response body | | |
| | <pre>"id": "33e124aa-567c-42d0-afec-0e033880b1bb", "firstName": "string", "lastName": "string", "house": "string", "knownAs": "string" }</pre> | È | Download |
| | Response headers | | |
| | connection: keep-alive content-type: application/json date: Sat,12 Feb 2022 04:06:24 GMT keep-alive: timeout=60 transfer-encoding: chunked | | |

| 5 | 🚔 🖻 × 🖏 Q × 🍺 × | ⊫ ⊡ ∠ ~ ∖ | 💙 No limit 👻 | | 1 × 5 5 4 | · ± 1 | .~ | |
|-----|--|---------------------------------------|---------------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------|-----|
| ß | springDevDb/postgres@PostgreSQL 1 | 3 | | | | | | |
| Que | ery Editor Query History | | | | | | Scratch Pa | d × |
| 1 | SELECT * FROM public.anti_her ORDER BY id ASC | o_entity | | | | | | |
| Dat | a Output Explain Messages Noti | fications | | | | | | |
| 4 | id (PK) uuid | created_at character varying (255) | first_name character varying (255) | house character varying (255) | known_as character varying (255) | last_name character vary | ing (255) | |
| 1 | 33e124aa-567c-42d0-afec-0e033880b1bb | 12-02-2022 12:06:24 SGT | string | string | string | string | | |
| | | | | | | | | |

OpenAPI definition ⁽¹⁾ (MASS) /v3/api-docs

Servers http://localhost:8080 - Generated server url 🐱

| DELETE | /api/v1/anti-heroes/{id} | ~ |
|---------|--------------------------|---|
| GET | /api/v1/anti-heroes/{id} | ~ |
| GET | /api/v1/anti-heroes | ~ |
| POST | /api/v1/anti-heroes | ~ |
| PUT | /api/v1/anti-heroes/{id} | ~ |
| Schemas | | ^ |

| GET /ap | oi∕v1/anti-heroes | |
|-------------------------------------|---|------------|
| Parameters | | Try it out |
| Name | Description | |
| pageable * rec object (query) | <pre>ulred { "page": 0, "size": 2, "sort": ["string"] }</pre> | |
| Responses | | |

Chapter 7: Adding Spring Boot Security with JWT

| Username | |
|----------|----|
| Password | |
| Sign | in |

| Cookies |
|-----------|
| |
| Presets ~ |
| |
| |
| |



| Params | Authorization | Headers (9 | Body | Pre-rec | quest Script | Tests | Settings | | | Cook | lies |
|------------------|------------------------------------|---|---------------|-----------|--------------|-------|----------------|------------------|-------------|---------------|------|
| none | 🌒 form-data | x-www-fc | orm-urlencode | d 🔘 raw | binary | Graph | QL JSON | ~ | | Beauti | ify |
| 2 3 | "email": "password | 1. ACT / | | | | | | | | | I |
| Body Co | okies (1) Hea | ders (14) Te | st Results | | | 🕀 Sta | tus: 201 Creat | ed Time: 1394 ms | Size: 546 B | Save Response | ~ |
| Pretty | Raw Pr | review Vis | sualize Js | ion v | | | | | | r <u>c</u> a | 2 |
| 2 3 4 5 | "email": "mobileNu "password | 919ab41-082c "test@gmail mber": null ": null | .com", | 902e2f92€ | 6e5", | | | | | | I |
| 6 | | | | | | | | | | | |

| POST http://localhost:8080/authenticate arams Authorization Headers (9) Body • Pre-request Script Tests Settings none • form-data • x-www-form-urlencoded • raw • binary • GraphQL JSON v 1 ···· *email*: ·*test@gmail.com*, ···· *password*: -*password*: -*password* 4 ···· *password*: -*password*: -*password* ···· *password*: -*password*: -*password* ···· *password*: -*password*: -*password*: -*password* ···· *password*: -*password*: -*passwor | e: 595 B Save Respo |
|--|----------------------|
| none form-data x-www-form-urlencoded raw binary GraphQL JSON < 1 2 3 4 4 Cookies (1) Headers (14) Test Results Cookies (1) Headers (14) Test Results Etty Raw Preview Visualize JSON < 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ie: 595 B Save Respo |
| 1 1 2 ····* "email":·*test@gmail.com", 3 ····* "password":· "password" 4 1 Cookies (1) Headers (14) Test Results Image: Status: 201 Created Time: 512 ms Size tty Raw Preview Visualize JSON Image: Status: 201 Created Time: 512 ms Size 1 Image: Status: 201 Created Time: 512 ms Size 1 Image: Status: 201 Created Time: 512 ms Size 1 Image: Status: 201 Created Time: 512 ms Size 1 Image: Status: 201 Created Time: 512 ms Size 1 Image: Status: 201 Created Time: 512 ms Size 1 Image: Status: 201 Created Time: 512 ms Size 1 Image: Status: 201 Created Time: 512 ms Size 1 Image: Status: 201 Created Time: 512 ms Size 1 Image: Status: 201 Created Time: 512 ms Size 1 Image: Status: 201 Created Time: 512 ms Size 1 Image: Status: 201 Created Time: 512 ms Size 1 Image: Status: 201 Created Time: 512 ms Size 1 Image: Status: 201 Created Time: 512 ms Size 1 Image: Status: 201 Created Time: 512 ms Size | |
| Itty Raw Preview Visualize JSON Image: Status 2010 ceated 1 mme. 512 mm Status 2010 ceated 1 | |
| "token": "eyJhbGci0iJIUzI1NiJ9.eyJzdWIi0iJ0ZXN0QGdtYWlsLmNvbSISImlhdCI6MTY0NzQwNDQ5MiwiZXhwIjoxNjQ3NDQwNDkyfQ.EC1KPOPs1QKSQno9RRg_y | |
| Stack Java and Angular Book / Get Anti Heroes | 000 |
| r v http://localhost:8080/api/v1/anti-heroes ms • Authorization Headers (8) Body Pre-request Script Tests Settings | Send ~ Cookie |
| KEY VALUE DESCRIPTION 000 E | Bulk Edit Presets |
| Authorization Bearer eyJhbGciOiJIUzI1NiJ9.eyJzdWliOiJ0ZXN0QGdtYWlsLmNvbSlslmlhdCl | |
| Key Value Description | |

{

},

"id": "83160259-817f-4db8-9c29-39771125bfe2",
"firstName": "string",
"lastName": "string",
"house": "string",
"knownAs": "string"

Chapter 8: Logging Events in Spring Boot

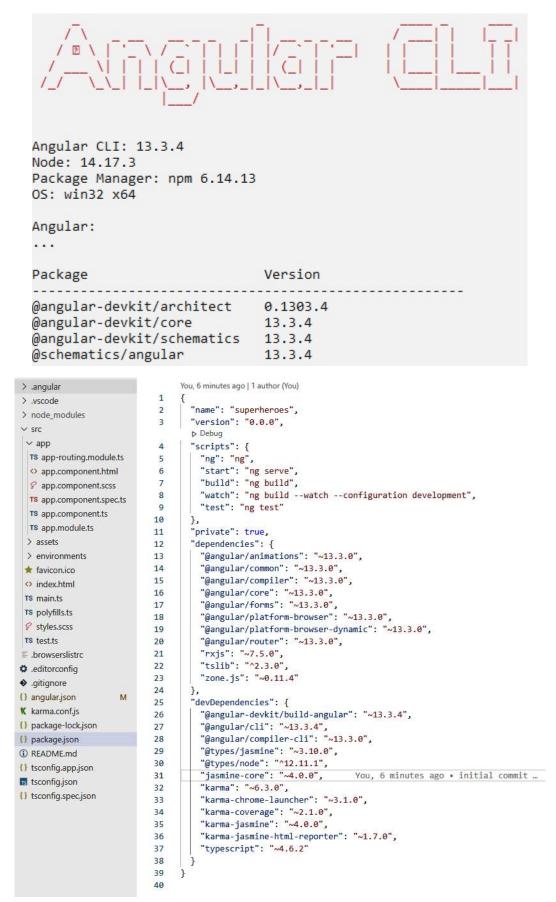
2022-03-29 12:04:04,087 INF0 [background-preinit] org.hibernate.validator.internal.util.Version: HV000001: Hibernate Validator 6.2.0.Final 2022-03-29 12:04:04,728 INF0 [restartedMain] org.springframework.boot.StartupInfoLogger: Starting SuperheroesApplication using Java 17 on LAPTOP-WEIIT559 with PID 9512 (<u>C:\Users\Sei</u> 2022-03-29 12:04:04,729 INF0 [restartedMain] org.springframework.boot.StartupInfoLogger: Running with Spring Boot v2.6.2, Spring v5.3.14 2022-05-29 12:04:04,729 INF0 [restartedMain] org.springframework.boot.StartupInfoLogger: Running with Spring Boot v2.6.2, Spring v5.3.14 2022-05-29 12:04:04,729 INF0 [restartedMain] org.springframework.boot.logging.DeferredLog: Devtools property defaults active! Set 'spring.devtools.add-properties' to 'false' to disa 2022-05-29 12:04:04,805 INF0 [restartedMain] org.springframework.boot.logging.DeferredLog: For additional web related logging consider setting the 'logging.level.web' property to 'D 2022-05-29 12:04:04,079 INF0 [restartedMain] org.springframework.data.repository.config.RepositoryConfigurationDelegate: Nultiple Spring Data modules found, entering strict reposito 2022-03-29 12:04:06,079 INF0 [restartedMain] org.springframework.data.repository.config.RepositoryConfigurationDelegate: Bootstrapping Spring Data JPA repositories in DEFAULT mode. 2022-03-29 12:04:06,379 INF0 [restartedMain] o.a.j.l.DirectJDKLog: Initializing Spring embedded WebApplicationContext: 2022-03-29T12:49:34,334 INF0 [restartedMain] o.s.b.w.s.c.ServletWebServerApplicationContext: Root WebApplicationContext: initialization]

2022-03-29T12:49:34,409 INF0 [restartedMain] c.z.h.HikariDataSource: HikariPool-1 - Starting... 2022-03-29T12:49:34,765 INF0 [restartedMain] c.z.h.HikariDataSource: HikariPool-1 - Start completed. 2022-03-29T12:49:34,780 INF0 [restartedMain] o.s.b.a.h.H2ConsoleAutoConfiguration: H2 console available at '/h2-console'. Database 2022-03-29T12:49:35,008 INF0 [restartedMain] o.h.j.i.u.LogHelper: HHH000204: Processing PersistenceUnitInfo [name: default] 2022-03-29T12:49:35,156 INF0 [restartedMain] o.h.Version: HHH000412: Hibernate ORM core version 5.6.3.Final 2022-03-29T12:49:55,536 INF0 [restartedMain] o.h.version: HHH000412: Hibernate ORM core version 5.6.3.Final 2022-03-29T12:49:55,5827 INF0 [restartedMain] o.h.d.Dialect: HHH000400: Using dialect: org.hibernate.dialect.PostgreSQLDialect 2022-03-29T12:49:56,775 INF0 [restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator: HHH000490: Using JtaPlatform implementation: [org.hibe 2022-03-29T12:49:36,782 INF0 [restartedMain] o.s.o.j.AbstractEntityManagerFactoryBean: Initialized JPA EntityManagerFactory for persist 2022-03-29T12:49:37,464 DEBUG [restartedMain] o.s.w.f.GenericFilterBean: Filter 'jwtRequestFilter' configured for use

Chapter 9: Writing Tests in Spring Boot

No Images..

Chapter 10: Setting Up Angular Project and Architecture



> ng serve

✓ Browser application bundle generation complete.

| Initial Chunk Files | Names | Raw Size |
|-----------------------|---------------|-----------|
| vendor.js | vendor | 1.97 MB |
| polyfills.js | polyfills | 294.85 kB |
| styles.css, styles.js | styles | 173.69 kB |
| main.js | main | 50.13 kB |
| runtime.js | runtime | 6.52 kB |
| | Initial Total | 2.49 MB |

Build at: 2022-05-01T06:57:57.874Z - Hash: 5cb655001d470ea8 - Time: 3719ms

** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **

✓ Compiled successfully.

| Welcome | | | | y . |
|---------|-------------------|----------------------|---|---------------------|
| | | Supe | rheroes app is running! | |
| | | | esources lks to help you get started: | |
| | 😒 Learn Angu | lar > | Documentation > | Angular Material > |
| | | 👌 Angular Blog > | ④ Angular DevTool: | s > |
| | | | ext Steps t to do next with your app? | |
| | + New Component | + Angular Material | + Add PWA Suppor | rt + Add Dependency |
| | | + Run and Watch Test | Build for Production | n |
| | ••• ng generat | e component xyz | | |
| | | Love Angular? Give | bur repo a star. ★ Star > | |

| ∨ app |
|--------------------------------|
| ∼ anti-hero |
| \checkmark components |
| > directives |
| ∼ pages |
| ∽ form |
| form.component.html |
| 𝘵 form.component.scss |
| TS form.component.spec.ts |
| TS form.component.ts |
| \sim list |
| Iist.component.html |
| 8 list.component.scss |
| TS list.component.spec.ts |
| TS list.component.ts |
| ✓ pipes |
| TS anti-hero-routing.module.ts |
| TS anti-hero.module.ts |
| |

| ✓ shared | • |
|---------------------|---|
| > directives | |
| ✓ layout | • |
| > footer | |
| > navbar | |
| > pipes | |
| TS shared.module.ts | U |

| ✓ core | |
|---------------------------------|---|
| > models | |
| ✓ services | |
| TS authenticate.service.spec.ts | U |
| TS authenticate.service.ts | U |
| TS core.module.ts | U |

| | Eddie | Brock | New Yo | rk Venom | | |
|------------|-----------|-----------------------------------|--------|----------|---------|--------|
| Basic | Primary | Accent Wa | im | Disabled | Link | |
| First Name | Last Name | House | Knowr | As | Actions | |
| Eddie | Brock | New York | Venor | n | Q View | Delete |
| | | E Angular Cl Legacy form field | | | | |
| | | Standard form fie | eld | | | |
| | | Fill form field | | | | |
| | | Outline form fie | ld | | | |
| | An | gular CRUD | | | | |

| First Name | Last Name | House | Known As | Actions |
|------------|-----------|----------|----------|-------------|
| Eddie | Brock | New York | Venom | View Delete |
| | | | | |



Chapter 11: Building Reactive Forms

First Name:

Last Name:

Known As:

Street:

City:

Country:

Powers

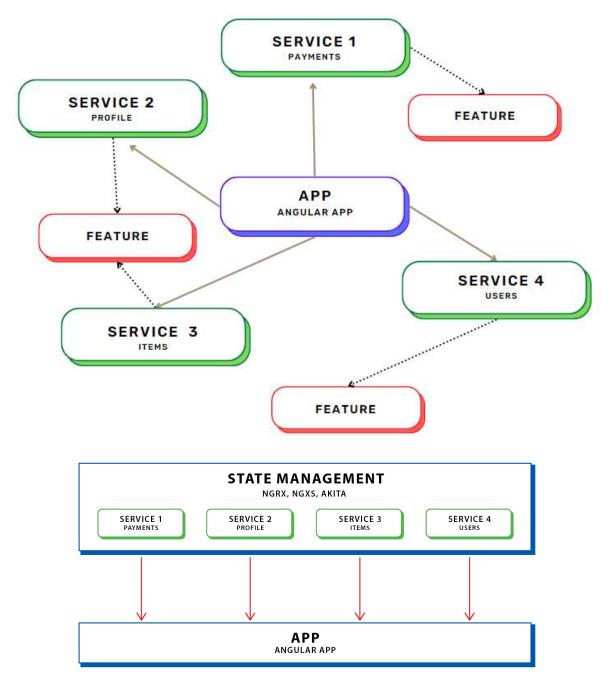
Power Name

Delete

Add

| Create Hero | |
|-------------|--------------|
| First Name | |
| Last Name | |
| House | |
| Known As | |
| | Clear Create |





| SERVICES DATA EFFEC DISPATCH (ACTION) WITH API CA | DISPATCH (ACTION) WITH API CALL (ACTION) |
|--|---|
| Actions Settings | COMPONENT 1 COMPONENT 2 COMPONENT 3 Image: Component 1 Image: Component 3 Image: Component 3 Sweep Commit NgRx Store DevTools V |
| filter @ngrx/store/init 1:22:04.3 @ngrx/effects/init +30:00.0 @ngrx/store/update- +30:00.0 | Diff Action State Diff Trace Test Tree Raw (states are equal) |
| reducers [Anti-Hero] Get Anti- +30:00.0 Hero list [Anti-Hero] Ge | et Anti-Hero list (3) |
| Log monit | tor Chart RTK Query 😢 >_ 🔛 🖽 🛱 |

Chapter 13: Saving, Deleting, and Updating Using NgRx

No Images...

Chapter 14: Adding Authentication in Angular

Angular CRUD

| Login | | | | | | |
|----------------|-------|--|--|--|--|--|
| Jsername | | | | | | |
| test@gmail.com | | | | | | |
| | | | | | | |
| Password | | | | | | |
| | | | | | | |
| - | Login | | | | | |
| | Login | | | | | |
| Create account | | | | | | |
| | | | | | | |

Angular CRUD

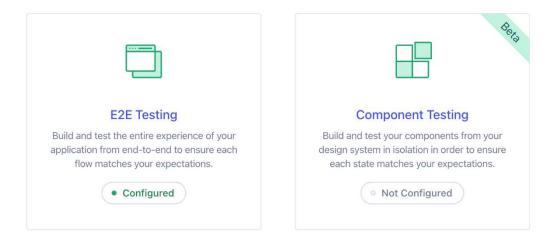
| NEW Create | Delete A | | | | |
|------------|-----------|----------|-------------|---------|--------|
| First Name | Last Name | House | Known As | Actions | |
| Eddie | Borck | New York | Venom | Q View | Delete |
| Michael | Morbius | New York | Morbius | Q View | Delete |
| Johnny | Blaze | Chicago | Ghost Rider | Q View | Delete |

| pring MVC and PD 🥏 Migrating a Spring | localhost:4200 says | | ating Angular 2 | 👰 Angular 2 User Regi |
|---------------------------------------|---------------------|-----------|-----------------|-----------------------|
| | Are you sure? | | | |
| | | OK Cancel | | |
| Create Hero | | | | |
| First Name | | | | |
| Last Name | | | | |
| House | | | | |
| Known As | | | | |
| | | | Clear | Create |

Chapter 15: Writing Tests in Angular

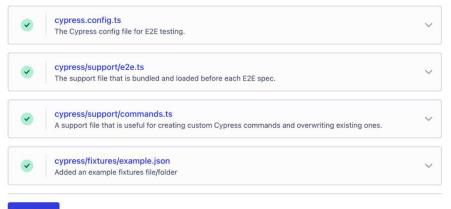
Welcome to Cypress!

Review the differences between each testing type \rightarrow



Configuration Files

We added the following files to your project:

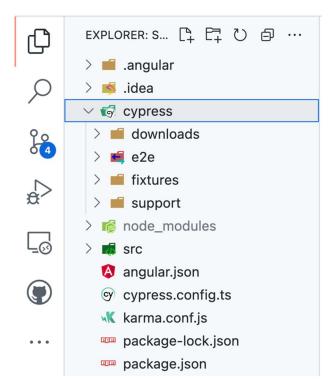


Continue

Choose a Browser

Choose your preferred browser for E2E testing.





| Register | |
|----------|----------|
| | |
| .com | |
| | |
| | |
| | Register |
| | |
| | 60 - 6 |

| | superheroes main | Specs | 9 | v10.8.0 |
|--|--|----------------------------|---|----------------|
| | Specs | Q Search Specs | | |
| ×— = | Runs | E2E specs | Last updated ? | |
| ŝ | Settings | ✓ ➡ cypress / e2e | | |
| | | E anti-heroes.cy.ts | 🗈 a few seconds | s a |
| ∋ Specs | | ✓ 1 × 0) ✓ Č | | C Edge 105 ~ |
| anti-heroe | s.cy.ts | 00:01 | [me] | 1000x000 (39%) |
| | | | | |
| | olay login page | Ang | ular CRUD | |
| TEST BODY 1 visit 2 url | olay login page t / | | ular CRUD Login Usemame Password | |
| should disp TEST BODY 1 visit 2 url 3 - ass | olay login page t / sert expected http://localhost:420 | | Login Username | |
| should disp TEST BODY 1 visit 2 url 3 - ccc 4 get | olay login page t / | 00/login to include /login | Login Username Password Login | |

| | anti-heroes.cy.ts |
|----------|---|
| | Login Page |
| ×— □— | O should display login page |
| | ✓ should display logo |
| ফ্ট | ✓ should render anti-heroes |
| | should remove a card after clicking a delete button |
| | ✓ should add a new hero |

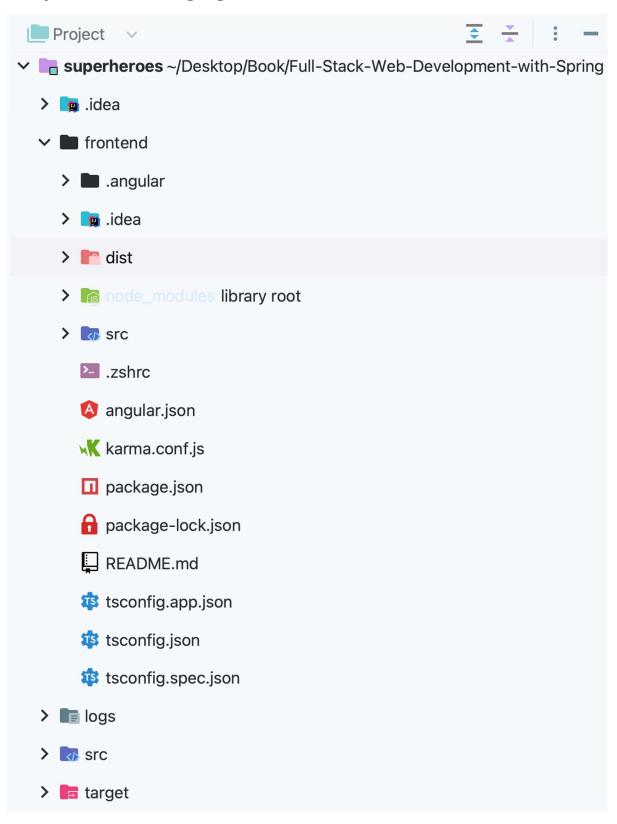


| | TEST | BODY | |
|---|---------|--|----|
| | | get [data-cy=delete] | 6 |
| | | - eq 1 | |
| | 3 | -click | |
| | | <pre>(xhr) OELETE 200 http://localhost:8080/api/v1/anti- no ali heroes/9greg7t767g</pre> | as |
| | | get [data-cy=row] | 20 |
| • | | - assert expected [<td.mat-cell.cdk-cell.cdk-column- firstName.mat-column-firstName.ng-star-inserted>, 19 more] to have a length of 20</td.mat-cell.cdk-cell.cdk-column- | 20 |

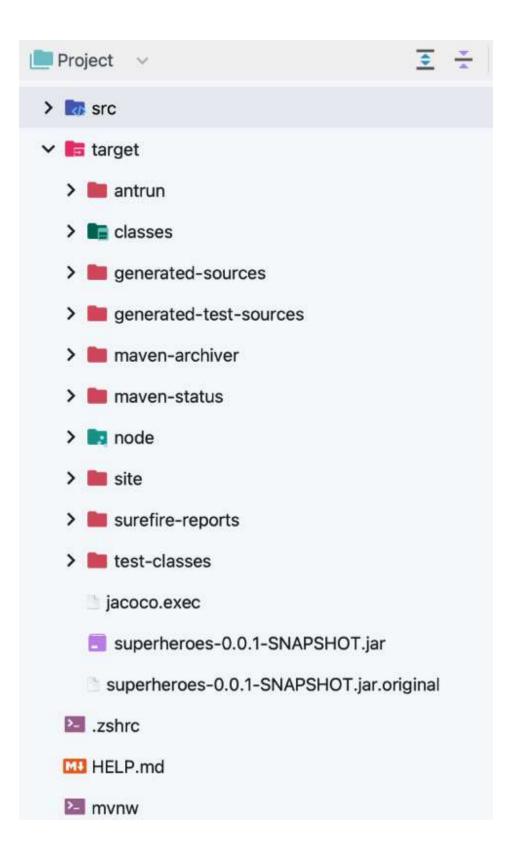
AFTER EACH

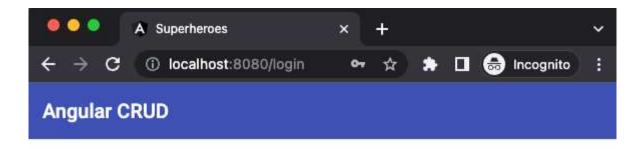
- 1 get [data-cy=logout]
- 2 click

(new url) http://localhost:4200/login



Chapter 16: Packaging Backend and Frontend with Maven



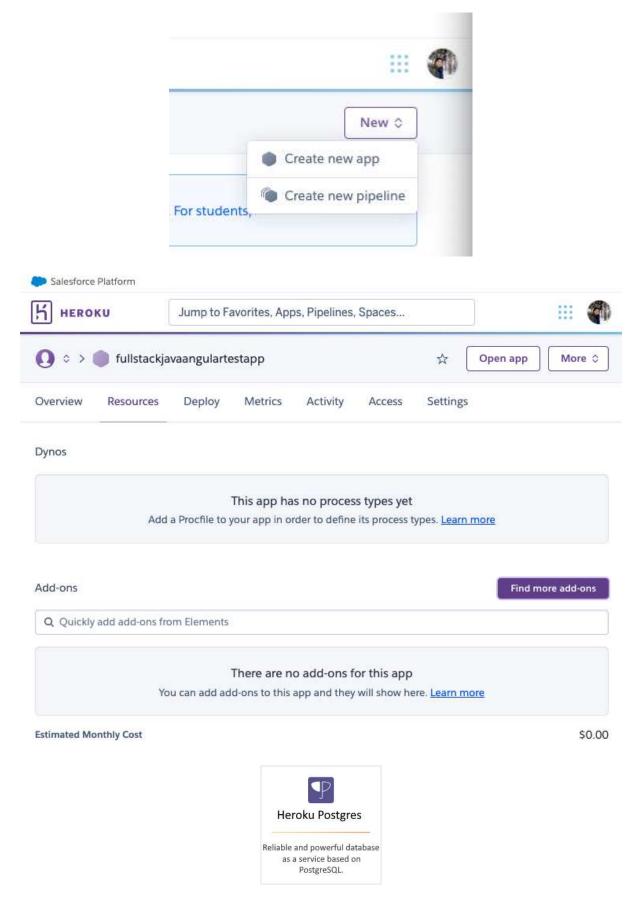


| Username | |
|----------|-------|
| | |
| Password | |
| | Login |

Angular CRUD

| New Cr | eate | 🧻 Del | ete All | | |
|------------|-----------|------------|------------|---------|----------|
| First Name | Last Name | House | Known As , | Actions | |
| Tony | Stark | California | Iron Man | Q View | T Delete |
| Eddie | Brock | New York | Venom | Q View | 📋 Delete |

Chapter 17: Deploying Spring Boot and Angular App



Domains

Your app can be found at https://fullstackjavaangulartestapp.herokuapp.com/

Add domain

You can add custom domains to any Heroku app, then visit <u>Configuring DNS</u> to setup your DNS target.

Q Filter domains

Config Vars

Reveal Config Vars

Config vars change the way your app behaves. In addition to creating your own, some add-ons come with their own.

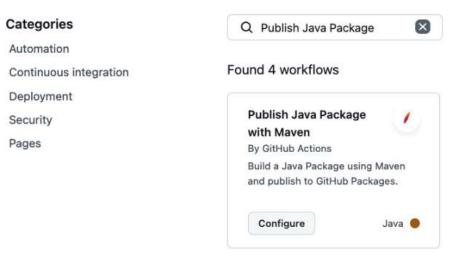
| Salesforce Platform | | | |
|---|---|---|-------|
| H HEROKU | Jump to Favorites, Apps, Pipelines, Spa | Edit config variable | × |
| C | | Кеу | |
| Config Vars | Config Vars | CLIENT_URL | |
| Config vars change the way your app behave In addition to creating your own, some add- come with their own. | | Value | |
| | DATABASE_URL | https://fullstackjavaangulartestapp.herokuapp.com | le le |
| | KEY | To Dev Center: Help with Config Vars | |
| | | | |

| 0 > 🔵 fullstackjavaangulartesta | op t | Ar Open app More 🗘 |
|--|--|--|
| Overview Resources Deploy M | letrics Activity Access Settings | |
| Add this app to a pipeline Create a new pipeline or choose an existing one and add this app to a stage in it. | Add this app to a stage in a pipeline to enable additi Pipelines let you connect multiple apps together and promote code between them. Learn more. | onal features Pipelines connected to GitHub can enable review apps , and create apps for new pull requests. <u>Learn more</u> . |
| Deployment method | Heroku Git Use Heroku CLI GitHub Connect to GitHub | Container Registry Use Heroku CLI |
| Connect to GitHub Connect this app to GitHub to enable code | Search for a repository to connect to | Search |
| diffs and deploys. Manual deploy Deploy the current state of a branch to this app. | Missing a GitHub organization? <u>Ensure Heroku Dashboar</u> Deploy a GitHub branch This will deploy the current state of the branch you spe Choose a branch to deploy | |
| | ۶۶ master | Deploy Branch |

| • • • | 😽 🔍 🗌 Preser | ve log Disab | le cache No throttl | ing 🔻 🙃 🛉 | <u>+</u> | \$ |
|-------------|----------------------|-------------------|---------------------|------------------|--------------------|---------------|
| Filter | |) Invert 🔲 Hide d | ata URLs | | | |
| All Fetch/X | HR JS CSS Img | Media Font Doc | WS Wasm Man | ifest Other 🗌 Ha | as blocked cookies | |
| Blocked I | Requests 🗌 3rd-pa | rty requests | | | | |
| 5000 | 0 ms 10000 ms | s 15000 ms | 20000 ms | 25000 ms | 30000 ms | 35000 ms |
| Name | ate | × Headers F | Payload Preview | Response Initi | ator Timing | |
| register | | | https://fullsta | ckiavaangulartes | tann herokuann (| com/register |
| message | s.json | Request Meth | 17 | | cuppineronauppin | com, regiscer |
| contentS | criptSiteDialog.html | Status Code: | | | | |
| | | Remote Addre | ess: 34.241.115.6 | 7:443 | | |
| | | Deferrer Delle | | when-cross-origi | | |

Get started with GitHub Actions

Build, test, and deploy your code. Make code reviews, branch management, and issue Skip this and set up a workflow yourself \rightarrow



| | Devlin Duldulao webmasterdevlin@gmail.com | |
|---|--|--------|
| 5 | Account settings | |
| 1 | Notifications | |
| | → Sign out | |
| | | |
| | | Reveal |
| <> Code 🗿 Issues 🏦 Pull re | | |
| ଡ଼ି General | Actions secrets / New secret | |
| Access | Name * | |
| 요. Collaborators 및 Moderation options ~ | HEROKU_API_KEY | |
| Code and automation | Secret * | |
| Security | Add secret | |
| | | |
| Code security and analysis | | |
| Code security and analysis Deploy keys | | |
| | | |

API Key

| | Cancel changes | Start commit |
|--|---|--|
| Commit | new file | |
| Create ma | aven-publish.yml | |
| Add an op | otional extended description | ۱ |
| 0 -0- Com | mit directly to the master | branch |
| ා ී Crea | mit directly to the master ate a new branch for this co uest. Learn more about pull | ommit and start a |
| ා ී Crea | ate a new branch for this co uest. Learn more about pull | ommit and start a |
| ି 🕻 Crea pull requ Commit เ | ete a new branch for this co uest. Learn more about pull new file | ommit and start a requests. |
| ○ \$\$ Creating of the second secon | ete a new branch for this co uest. Learn more about pull new file | ity 🗠 Insights 🕸 Settings Cancel workflow 💿 Latest #2 - |
| ○ \$\$ Create maven-public Summary | Ate a new branch for this co uest. Learn more about pull new file Pul request O Actions Projects Wiki O Secu lish.yml CICD #1 | ity 🗠 Insights 🕸 Settings Cancel workflow 💿 Latest #2 - |

| <> Code 💿 Issues 👔 Pull re | equests 🕑 Actions 🖽 Projects 🖽 Wiki 🛈 Security 🗠 Insights 🎼 | 3 Settings |
|--|--|------------|
| Create maven-publish.y | /ml CICD #1 Statest | #2 • |
| G SummaryJobs | Build and Test Started 1m 13s ago | ¢ |
| Build and Test | > 🥥 Set up job | 35 |
| | > 🥝 Run actions/checkout@v2 | 55 |
| | > 🥝 Set up JDK 17 | 1s |
| | ✓ | 1m 4s |
| <> Code 💿 Issues 👬 Pull rea | 16062 [INFO] 16063 [INFO] 105 packages are looking for funding 16064 [INFO] run `npm fund` for details quests ③ Actions 🖽 Projects 🖽 Wiki ① Security 🗠 Insights 🈂 | Settings |
| Workflows New workflow All workflows ୧ _୦ CICD | All workflows Showing runs from all workflows Q Filter workflow runs | |
| | 1 workflow run Event - Status - Branch - | Actor 🕶 |
| | | |

Latest activity



webmasterdevlin@gmail.com: Deployed f1eb3508 Today at 8:33 AM · v11 · <u>Compare diff</u>



webmasterdevlin@gmail.com: Build succeeded Today at 8:31 AM · <u>View build log</u>