

Para prueba manual

1. Levantar servicio
nohup bash mvn spring-boot:run &
2. Luego ir a un navegador y escribir
localhost:8080/formulario.html
3. Si el servicio quedó correctamente levantado en puerto 8080, en la página se mostrarán los resultados calculados en el servicio

localhost:8080/formulario.html

Calcular tu 10%

Calcula tu 10% a retirar, tu saldo vigente en tu AFP y el monto de impuesto

Ingresar tu sueldo actual (\$)

2000000

Ingresar tu monto ahorrado en afp (\$)

2000000

Calcular

El monto a retirar es \$2000000
El saldo restante de ahorro es \$180000000
El impuesto a pagar es \$63366

Paso a paso para ejecución de pruebas

1. Clonar repositorio en carpeta local

```
MacBook-de-Mauricio:~ Mauricio$ cd Desktop/  
MacBook-de-Mauricio:Desktop Mauricio$ cd TrabajoFinalM4/  
MacBook-de-Mauricio:TrabajoFinalM4 Mauricio$ git clone https://github.com/diplomado-grupo6/TrabajoFinalM4SWD.git  
Cloning into 'TrabajoFinalM4SWD'..  
remote: Enumerating objects: 233, done.  
remote: Counting objects: 100% (200/200), done.  
remote: Compressing objects: 100% (121/121), done.  
remote: Total 233 (delta 63), reused 130 (delta 20), pack-reused 33  
Receiving objects: 100% (233/233), 14.77 MiB | 4.85 MiB/s, done.  
Resolving deltas: 100% (63/63), done.  
MacBook-de-Mauricio:TrabajoFinalM4 Mauricio$
```

2. Ingresar a carpeta TrabajoFinalM4SWD
3. Para revisar que esté todo ok para realizar las pruebas compilamos usando maven.
Es requerido tener instalado maven.
Ejecutar en terminal:
mvn clean
mvn compile

```

MacBook-de-Mauricio:TrabajoFinalM4 Mauricio$ cd TrabajoFinalM4SWD/
MacBook-de-Mauricio:TrabajoFinalM4SWD Mauricio$ mvn clean
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.devops.dxc:devops >-----
[INFO] Building devops 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-clean-plugin:3.1.0:clean (default-clean) @ devops ---
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 0.849 s
[INFO] Finished at: 2022-03-27T17:24:46-03:00
[INFO]
MacBook-de-Mauricio:TrabajoFinalM4SWD Mauricio$ mvn compile
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.devops.dxc:devops >-----
[INFO] Building devops 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ devops ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 1 resource
[INFO] Copying 2 resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ devops ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 5 source files to /Users/Mauricio/Desktop/TrabajoFinalM4/TrabajoFinalM4SWD/target/classes
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 4.049 s
[INFO] Finished at: 2022-03-27T17:24:55-03:00
[INFO]

```

4. Para ejecutar pruebas unitarias ejecutamos **mvn -Dtest=UtilTest test**

```

2022-03-27 17:31:01.589 INFO 30456 --- [main] com.devops.dxc.devops.model.UtilTest : Starting UtilTest using Java 11.0.12 on MacB
ook-de-Mauricio.local with PID 30456 (started by Mauricio in /Users/Mauricio/Desktop/TrabajoFinalM4/TrabajoFinalM4SWD)
2022-03-27 17:31:01.593 INFO 30456 --- [main] com.devops.dxc.devops.model.UtilTest : No active profile set, falling back to defau
lt profiles: default
2022-03-27 17:31:03.706 INFO 30456 --- [main] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTas
kExecutor'
2022-03-27 17:31:04.188 INFO 30456 --- [main] com.devops.dxc.devops.model.UtilTest : Started UtilTest in 3.226 seconds (JVM runni
ng for 5.301)
[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 4.842 s - in com.devops.dxc.devops.model.UtilTest
2022-03-27 17:31:04.842 INFO 30456 --- [extShutdownHook] o.s.s.concurrent.ThreadPoolTaskExecutor : Shutting down ExecutorService 'applicationTa
skExecutor'
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 11.284 s

```

5. Abrimos otro terminal para levantar el servicio en el puerto 8080 para ejecutar las pruebas de integración (con Newman) y funcionales (con Selenium).

nohup bash mvn spring-boot:run &

6. Continuamos con las pruebas de integración, para lo cual es requerido tener instalado Newman.

newman run src/test/java/postman/Dxc.postman_collection.json

- ✓ Diez x Ciento
- ✓ Saldo
- ✓ Impuesto

→ Dxc Prueba 3

GET http://localhost:8080/rest/msdxc/dxc?ahorro=30000000&sueldo=2000000 [200 OK, 339B, 764ms]

- ✓ Response time is less than 2000ms
- ✓ Status code is 200
- ✓ Diez x Ciento
- ✓ Saldo
- ✓ Impuesto

→ Dxc Prueba 4

GET http://localhost:8080/rest/msdxc/dxc?ahorro=20000000&sueldo=9000000 [200 OK, 339B, 1429ms]

- ✓ Response time is less than 2000ms
- ✓ Status code is 200
- ✓ Diez x Ciento
- ✓ Saldo
- ✓ Impuesto

| | executed | failed |
|------------------------------------------------------------------|----------|--------|
| iterations | 1 | 0 |
| requests | 4 | 0 |
| test-scripts | 4 | 0 |
| prerequisite-scripts | 0 | 0 |
| assertions | 20 | 0 |
| total run duration: 5s | | |
| total data received: 329B (approx) | | |
| average response time: 1234ms [min: 711ms, max: 2s, s.d.: 541ms] | | |

7. Por último ejecutamos las pruebas funcionales

mvn -Dtest=AppTest test

```
INFO: Detected dialect: W3C
data:,

Cerrando configuración...
Iniciando configuración...
Starting ChromeDriver 99.0.4844.51 (d537ec02474b5afe23684e7963d538896c63ac77-refs/branch-heads/4844@{#875}) on port 37365
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
mar 27, 2022 5:42:21 P. M. org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
data:,

Cerrando configuración...
Iniciando configuración...
Starting ChromeDriver 99.0.4844.51 (d537ec02474b5afe23684e7963d538896c63ac77-refs/branch-heads/4844@{#875}) on port 31566
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
mar 27, 2022 5:42:27 P. M. org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
data:,

Cerrando configuración...
[INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 34.647 s - in selenium.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 39.374 s
[INFO] Finished at: 2022-03-27T17:42:30-03:00
[INFO] -----
```

10%

localhost:8080/formulario.html

Un software de prueba automatizado está controlando Chrome.

Calcular tu 10%

Calcula tu 10% a retirar, tu saldo vigente en tu AFP y el monto de impuesto

Ingresa tu sueldo actual (\$)

Ingresa tu monto ahorrado en afp (\$)

Calcular

El monto a retirar es \$1000000
El saldo restante de ahorro es \$0
El impuesto a pagar es \$0