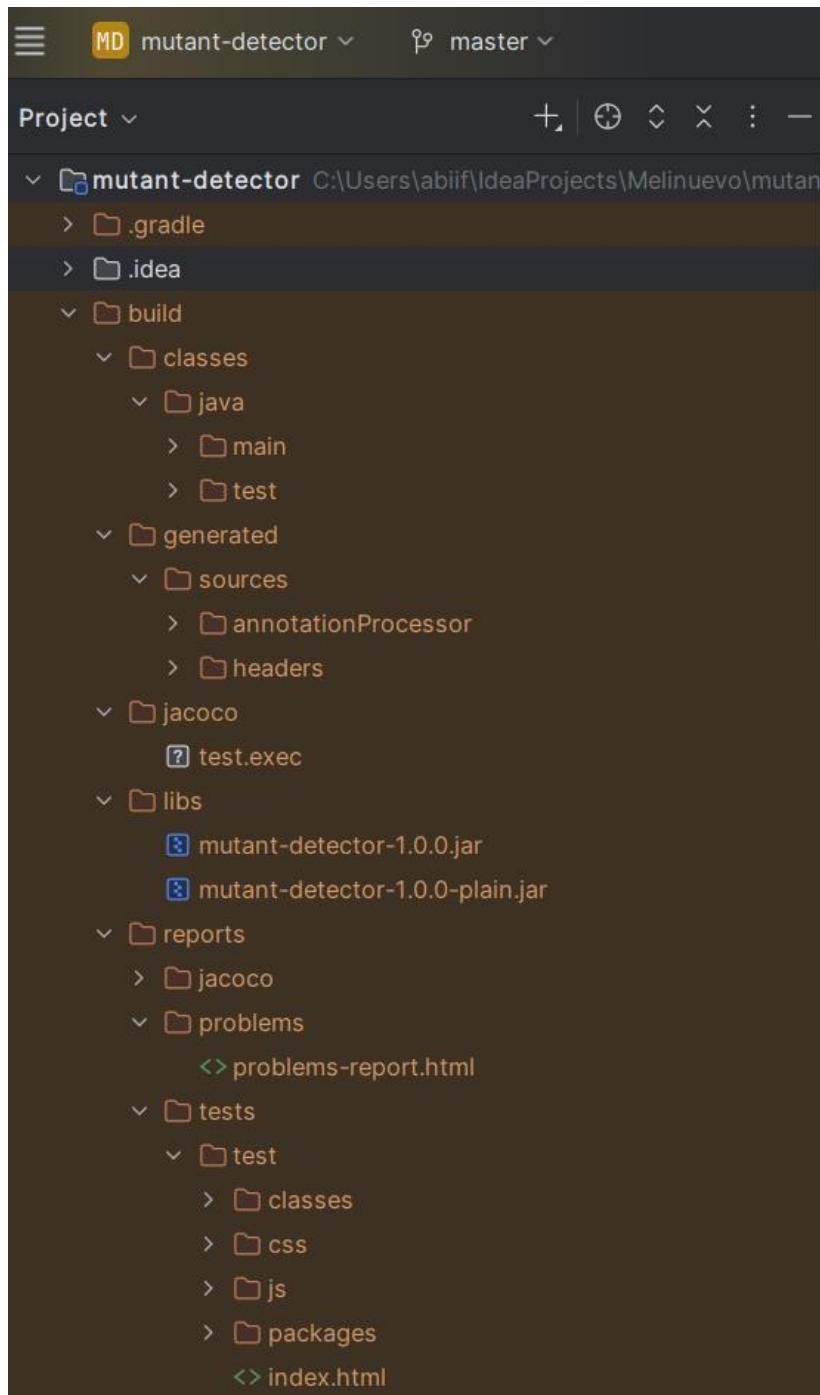
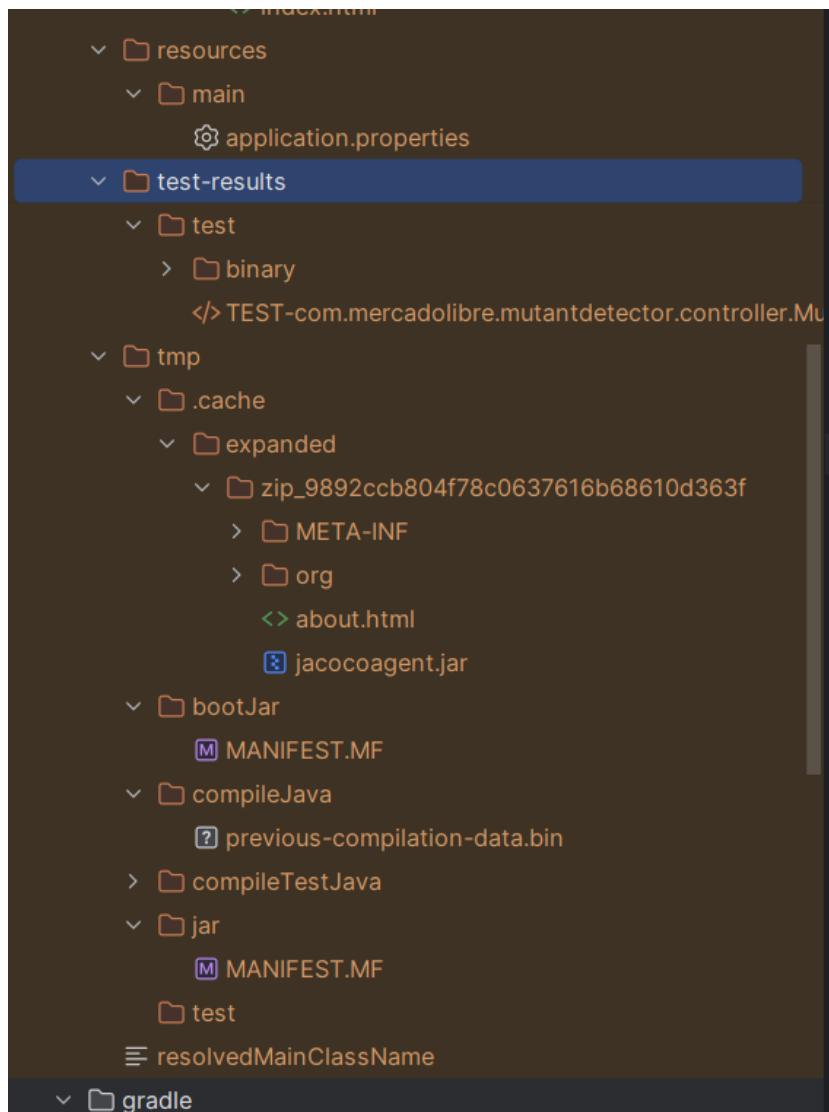


**Este pdf tiene el propósito de mostrar un poco de mi avance en este proyecto y que haya constancia de lo que saqué para poder subir mi código a GitHub, ya que es muy pesado.**

**SOBRE TODO EL BUILD, acá van pruebas de mi proceso en este proyecto:**





6	
7	###
8	.idea
9	.idea
10	.idea
11	└ .idea
12	*.iws
13	*.iml
14	*.ipr
15	└ out/

test-results

test

binary

</> TEST-com.mercadolibre.mutantdetector.controller.Mu

</> TEST-com.mercadolibre.mutantdetector.service.Debu

</> TEST-com.mercadolibre.mutantdetector.service.Muta

</> TEST-com.mercadolibre.mutantdetector.service.Muta

</> TEST-com.mercadolibre.mutantdetector.service.Stats

tmp

Nombre	Fecha de modificación	Tipo	Tamaño
classes	27/11/2025 14:38	Carpeta de archivos	
generated	27/11/2025 14:38	Carpeta de archivos	
jacoco	27/11/2025 16:29	Carpeta de archivos	
libs	27/11/2025 14:38	Carpeta de archivos	
reports	27/11/2025 14:39	Carpeta de archivos	
resources	27/11/2025 14:38	Carpeta de archivos	
test-results	27/11/2025 14:38	Carpeta de archivos	
tmp	27/11/2025 14:38	Carpeta de archivos	
resolvedMainClassName	27/11/2025 14:38	Archivo	1 KB

Dentro de libs:

Nombre	Fecha de modificación	Tipo	Tamaño
mutant-detector-1.0.0	27/11/2025 14:38	Executable Jar File	52.127 KB
mutant-detector-1.0.0-plain	27/11/2025 14:38	Executable Jar File	13 KB

Muestra de cobertura:

<file:///C:/Users/abiif/IdeaProjects/Melinuevo/mutant-detector/build/reports/jacoco/test/html/index.html>

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.mercadolibre.mutantdetector.entity	39 %	n/a	9	12	9	18	9	12	0	12	0	1
com.mercadolibre.mutantdetector.dto	67 %	100 %	5	13	6	18	5	12	0	12	0	2
com.mercadolibre.mutantdetector.service	95 %	92 %	4	38	4	80	0	11	0	11	0	3
com.mercadolibre.mutantdetector	37 %	n/a	1	2	2	3	1	2	0	2	0	1
com.mercadolibre.mutantdetector.controller	100 %	100 %	0	4	0	10	0	3	0	3	0	1
com.mercadolibre.mutantdetector.config	100 %	n/a	0	2	0	6	0	2	0	2	0	1
Total	73 of 550	86 %	4 of 58	93 %	19	71	21	135	15	42	0	9

Created with JaCoCo 0.8.13.202504020838

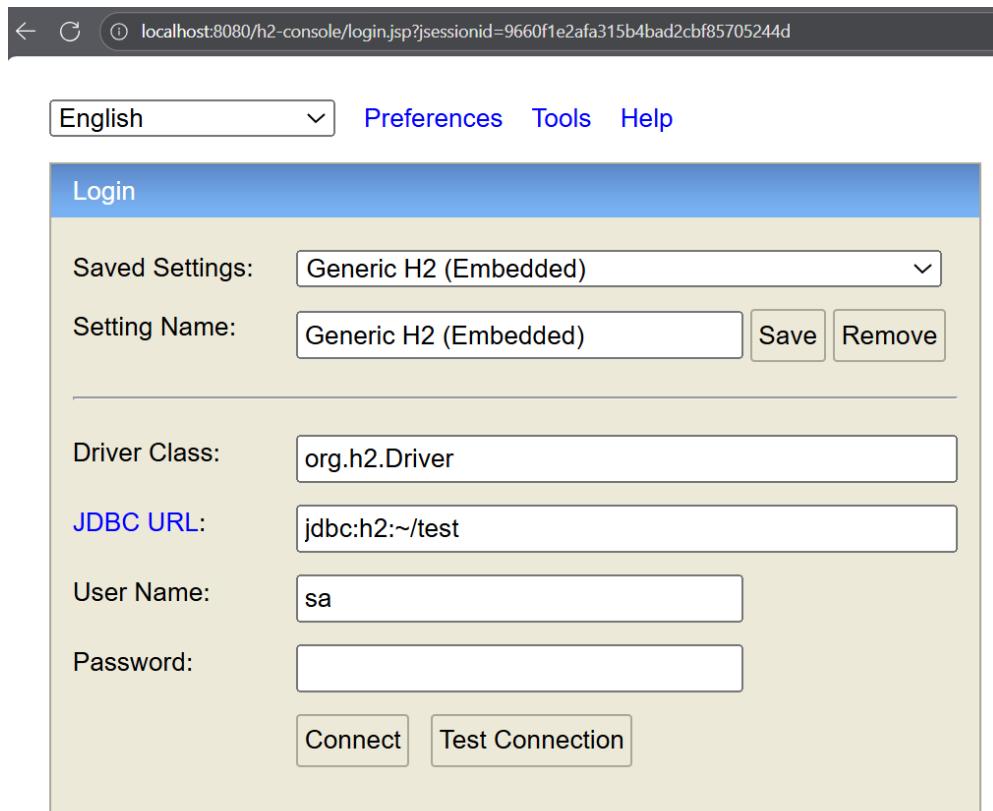
Muestra de mi API REST:

<http://localhost:8080/api/v1/stats>

```
{"countMutantDna":0, "countHumanDna":0, "ratio":0.0}
```

Muestra de H2 Console (Base de datos):

<http://localhost:8080/h2-console>



The screenshot shows the 'Login' page of the H2 Console. At the top, there is a language dropdown set to 'English' and navigation links for 'Preferences', 'Tools', and 'Help'. Below this, the title 'Login' is displayed. The page contains several input fields and buttons:

- 'Saved Settings:' dropdown set to 'Generic H2 (Embedded)'.
- 'Setting Name:' input field containing 'Generic H2 (Embedded)' with 'Save' and 'Remove' buttons next to it.
- 'Driver Class:' input field containing 'org.h2.Driver'.
- 'JDBC URL:' input field containing 'jdbc:h2:~/test'.
- 'User Name:' input field containing 'sa'.
- 'Password:' input field (empty).
- 'Connect' and 'Test Connection' buttons at the bottom.

Muestra de Swagger UI (Documentación API):

<http://localhost:8080/swagger-ui.html>

# Mutant Detector API 1.0.0 OAS 3.0

/v3/api-docs

API para detección de mutantes basada en secuencias de ADN

Servers

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

## mutant-controller

POST /api/v1/mutant

### Parameters

No parameters

[Cancel](#)

[Reset](#)

### Request body required

application/json ▾

```
{  
    "dna": ["ATGGCA", "CAGTGC", "TTATGT", "AGAAGG", "CCCTTA", "TCACTG"]  
}
```

### Responses

Curl

```
curl -X 'POST' \  
  'http://localhost:8080/api/v1/mutant' \  
  -H 'accept: */*' \  
  -H 'Content-Type: application/json' \  
  -d {  
    "dna": ["ATGGCA", "CAGTGC", "TTATGT", "AGAAGG", "CCCTTA", "TCACTG"]  
  }'
```



Request URL

<http://localhost:8080/api/v1/mutant>

Server response

Code Details

200

Response headers

```
connection: keep-alive  
content-length: 0  
date: Thu, 27 Nov 2025 18:04:05 GMT  
keep-alive: timeout=60
```

Responses

Code Description

Links

200 OK

No links

GET /api/v1/stats

**Parameters**

No parameters

**Responses**

Curl

```
curl -X 'GET' \
  'http://localhost:8080/api/v1/stats' \
  -H 'accept: */*' 
```

Request URL

<http://localhost:8080/api/v1/stats>

Server response

Code	Details	Links
200	<p>Response body</p> <pre>{   "countMutantDna": 1,   "countHumanDna": 0,   "ratio": 0 }</pre> <p>Response headers</p> <pre>connection: keep-alive content-type: application/json date: Thu, 27 Nov 2025 18:05:49 GMT keep-alive: timeout=60 transfer-encoding: chunked</pre>	 
200	OK	No links

Media type

\*/\* 

Controls Accept header.

Example Value | Schema

```
{
  "countMutantDna": 1,
  "countHumanDna": 0,
  "ratio": 0
}
```

Muestra de build/reports/tests/testindex.html:

 classes	27/11/2025 16:29	Carpeta de archivos	
 CSS	27/11/2025 14:39	Carpeta de archivos	
 js	27/11/2025 14:39	Carpeta de archivos	
 packages	27/11/2025 16:29	Carpeta de archivos	
 index	27/11/2025 16:29	Microsoft Edge HT...	3 KB

C ⓘ Archivo C:/Users/abiif/IdeaProjects/Melinuevo/mutant-detector/build/reports/tests/test/index.html

## Test Summary



Packages	Classes				
Package	Tests	Failures	Ignored	Duration	Success rate
<a href="#">com.mercadolibre.mutantdetector.controller</a>	3	0	0	1.507s	100%

Generated by Gradle 8.14 at 27 nov 2025 16:29:58

① Archivo C:/Users/abiif/IdeaProjects/Melinuevo/mutant-detector/build/reports/tests/test/index.html

## Test Summary



Packages	Classes					
Class		Tests	Failures	Ignored	Duration	Success rate
	<a href="#">com.mercadolivre.mutantdetector.controller.MutantControllerTest</a>	3	0	0	1.507s	100%

Generated by [Gradle 8.14](#) at 27 nov 2025 16:29:58

Muestra de mutant-detector\build\reports \problems:

 problems-report      27/11/2025 16:40      Microsoft Edge HT...      129 KB

Archiwo C:/Users/abifii/IdeaProjects/Melinuevo/mutant-detector/build/reports/problems/problems-report.html



[Learn more about reporting problems](#)

Problems Report

3 problems have been reported during the execution of build mutant-detector for the following tasks: bootRun

Messages  Groups  File Locations  Plain Locations  Task Locations 

> no location

## Muestra de jacoco:

C:\Users\abiif\IdeaProjects\Melinuevo\mutant-detector\build\reports\jacoco\test\html\jacoco-sessions.html			
Nombre	Fecha de modificación	Tipo	Tamaño
com.mercadolibre.mutantdetector	27/11/2025 14:39	Carpeta de archivos	
com.mercadolibre.mutantdetector.config	27/11/2025 14:39	Carpeta de archivos	
com.mercadolibre.mutantdetector.control...	27/11/2025 14:39	Carpeta de archivos	
com.mercadolibre.mutantdetector.dto	27/11/2025 14:39	Carpeta de archivos	
com.mercadolibre.mutantdetector.entity	27/11/2025 14:39	Carpeta de archivos	
com.mercadolibre.mutantdetector.service	27/11/2025 14:39	Carpeta de archivos	
jacoco-resources	27/11/2025 14:39	Carpeta de archivos	
index	27/11/2025 16:29	Microsoft Edge HT...	7 KB
jacoco-sessions	27/11/2025 16:29	Microsoft Edge HT...	966 KB

C:\Users\abiif\IdeaProjects\Melinuevo\mutant-detector\build\reports\jacoco\test\html\jacoco-sessions.html			
mutant-detector > Sessions	Sessions	Chats	Sessions

### Sessions

This coverage report is based on execution data from the following sessions:

Session	Start Time	Dump Time
ABIMUNOZ-3feddf5f	27 nov 2025 16:29:43	27 nov 2025 16:29:58

Execution data for the following classes is considered in this report:

Class	Id
ch.qos.logback.classic.BasicConfigurator	e9cbd1f978e04c35
ch.qos.logback.classic.Level	d10d9d85f7319828
ch.qos.logback.classic.Logger	362199a089b5e504
ch.qos.logback.classic.LoggerFactory	b6ccdc906c52b186
ch.qos.logback.classic.encoder.PatternLayout	d43bf50548b3cc1b
ch.qos.logback.classic.encoder.PatternLayoutEncoder	adbb8c6e09fd1ae8
ch.qos.logback.classic.filter.ThresholdFilter	b33221090e9a959a
ch.qos.logback.classic.joran.SerializedModelConfigurator	2bd295c787b926af
ch.qos.logback.classic.jul.JULHelper	a1a322114972bea5
ch.qos.logback.classic.jul.LevelChangePropagator	154b2d1f49b1749d
ch.qos.logback.classic.layout.TTLLayout	6348caeec64d4753
ch.qos.logback.classic.pattern.ClassicConverter	ca6784b1cdac73e4
ch.qos.logback.classic.pattern.DateConverter	539209f8221996bc
ch.qos.logback.classic.pattern.EnsureExceptionHandling	c7ef7ced01cf2b40
ch.qos.logback.classic.pattern.ExtendedThrowableProxyConverter	115c3183cea2d042
ch.qos.logback.classic.pattern.LevelConverter	a8cd865f5dd3d342
ch.qos.logback.classic.pattern.LineSeparatorConverter	8084392049275503
ch.qos.logback.classic.pattern.LoggerConverter	300f443c765acc98
ch.qos.logback.classic.pattern.MessageConverter	13504bb1f05f461

C:\Users\abiif\IdeaProjects\Melinuevo\mutant-detector\build\reports\jacoco\test\html\index.html			
mutant-detector			

### mutant-detector

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.mercadolibre.mutantdetector.service	86 %	81 %	10	38	12	80	0	11	0	11	0	3
com.mercadolibre.mutantdetector.entity	33 %	n/a	10	12	10	18	10	12	0	12	0	1
com.mercadolibre.mutantdetector.dto	63 %	50 %	6	13	6	18	5	12	0	12	0	2
com.mercadolibre.mutantdetector	37 %	n/a	1	2	2	3	1	2	0	2	0	1
com.mercadolibre.mutantdetector.controller	100 %	100 %	0	4	0	10	0	3	0	3	0	1
com.mercadolibre.mutantdetector.config	100 %	n/a	0	2	0	6	0	2	0	2	0	1
Total	115 of 550	79 %	11 of 58	81 %	27	71	30	135	16	42	0	9

### Muestra de Diagrama de Secuencia:

//www.plantuml.com/plantuml/png/ZLDBRXD14DtNAMff2qMnW9Kben1xGlWmZZpc09Nf2cxKxXvrLrjOY2q7u1wiE49kmabep-3Cs987RtfHdrlwhs-2a9Uujg0Q36C7wEG5PonS2dEumNUcFZ5uPtNjjGL6G2g4rEZsGf3bThrBfEwfwiATyQmFmWNx3UwR4kx0mw22wvSq2cw1KL2znGOhzCp8t41O39fsahz-

DkYsfDbd4m0\_l71YrST6cEycnTBl5mtMtrJbhv3cqx5Ut9ZrA616wIY8JJX6gzbDSO7RTNrTcRfb9gi4hF48  
 2CuEjPZjbN7OG14Jiz2Q7TOOn5zY6RBdSrRVHul89VSEcyEeRgqlKSeX5I3jW4hkVdaJVkdF7uvyTFjD6Ol  
 W6yhcHR5xItU9Bj-5o8-9GxG14V-  
 VA1J6ZkSkAiWJOyyFNEm\_u5tkP5jbW2MmMjHbt9EvUfXSd2tYOr87uUnEFyVbeXFtpIbpTqx7oz4BI77  
 -  
 NYI5jk6J\_9c5DFZnLn1TKkZpvPiisJ8LlpZbnyyinlu\_E6d6qaKh3TLacLJtFzcdyq\_v4flFq0jw6zTaQqp4Cr5N  
 kvOEQBj8IQQCXZnw4krEgLRlkk1GEHiOUcHwXk-AUGvNR5LScxy0

