

MÁSTER UNIVERSITARIO EN DESARROLLO ÁGIL DE SOFTWARE PARA LA WEB

ASIGNATURA: INTEGRACIÓN CONTINUA EN EL DESARROLLO ÁGIL

CURSO 2024-25

TRABAJO FINAL

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# Trabajo final integración continua

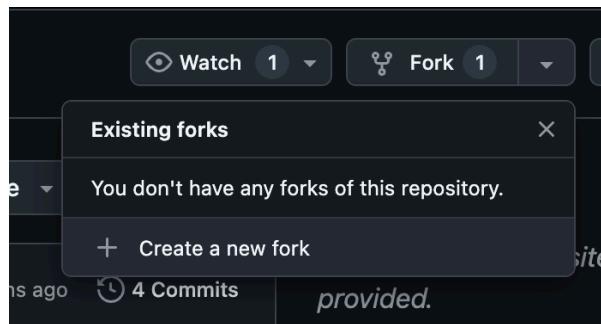
## 1) Creación de la aplicación moviecards

Se ha seguido la práctica guiada del tema 5 y la aplicación moviecards ha quedado desplegada en los siguientes enlaces:

- **Deploy:** <https://moviecards-villar.azurewebsites.net/>
- **Stage:** <https://moviecards-pre-villar.azurewebsites.net/actors>

## 2) Repositorio moviecards-service y despliegue en Azure

Primero he hecho una copia del repositorio proporcionado en el enlace <https://github.com/josehilara/moviecards-service>. Para ello, desde git en Fork he seleccionado “+ Create a new fork”.



Le he puesto el nombre “moviecards-service” y le he dado a Create fork.

**Create a new fork**

A *fork* is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. [View existing forks.](#)

Required fields are marked with an asterisk (\*).

**Owner \*** **Repository name \***

 adrianavillar / moviecards-service ✓ moviecards-service is available.

By default, forks are named the same as their upstream repository. You can customize the name to distinguish it further.

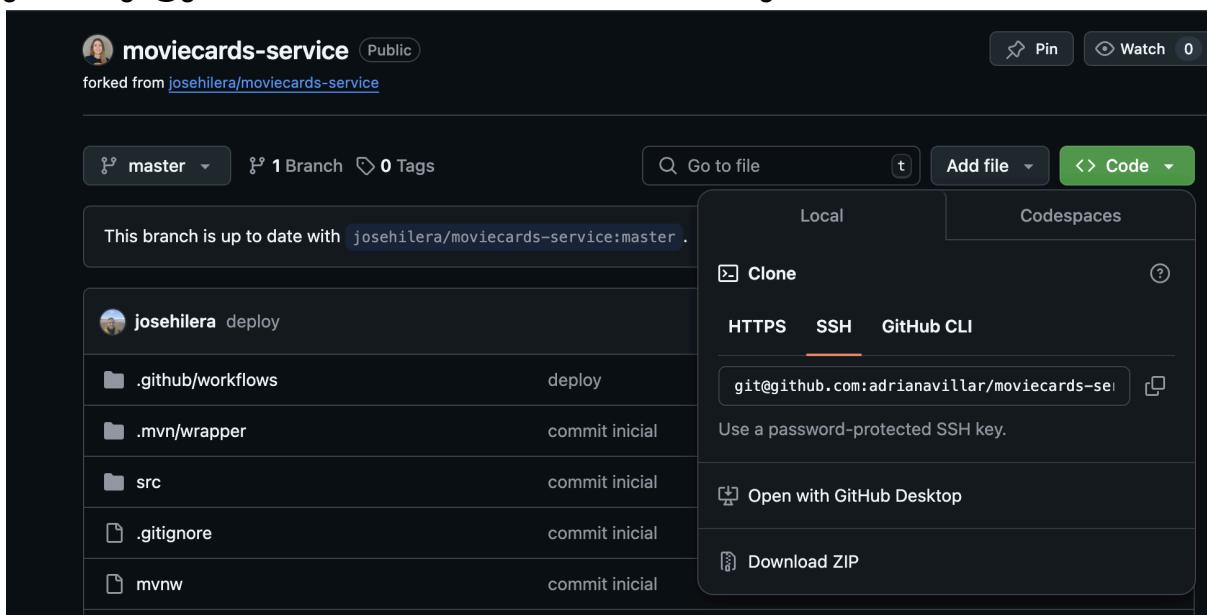
**Description (optional)**

Copy the master branch only  
Contribute back to josehilera/moviecards-service by adding your own branch. [Learn more.](#)

ⓘ You are creating a fork in your personal account.

**Create fork**

Para clonar el repositorio en local he copiado la clave SSH y dentro de la carpeta donde quería clonarlo, desde la terminal de comandos he puesto lo siguiente:  
git clone git@github.com:adrianavillar/moviecards-service.git



The screenshot shows the GitHub fork creation interface. At the top, it says "Create a new fork". Below that, it explains what a fork is and provides a link to view existing forks. It asks for the owner (adrianavillar) and repository name (moviecards-service). A note says the name is available. It also asks for an optional description and has a checkbox for copying the master branch only, with a link to learn more about contributing back. A note indicates the fork is being created in a personal account. At the bottom is a green "Create fork" button.

**moviecards-service** (Public)  
forked from [josehilera/moviecards-service](#)

 master  1 Branch  0 Tags

This branch is up to date with [josehilera/moviecards-service:master](#).

 josehilera deploy

-  .github/workflows deploy
-  .mvn(wrapper commit initial
-  src commit initial
-  .gitignore commit initial
-  mvnw commit initial

Go to file  Add file ▾ **Code** ▾

Local Codespaces

Clone 

HTTPS SSH GitHub CLI

git@github.com:adrianavillar/moviecards-service 

Use a password-protected SSH key.

 Open with GitHub Desktop

 Download ZIP

```

~/Desktop/integracion-continua (2.042s)
git clone git@github.com:adrianavillar/moviefcards-service.git
Cloning into 'moviefcards-service'...
remote: Enumerating objects: 72, done.
remote: Counting objects: 100% (72/72), done.
remote: Compressing objects: 100% (43/43), done.
remote: Total 72 (delta 15), reused 66 (delta 13), pack-reused 0 (from 0)
Receiving objects: 100% (72/72), 76.44 KiB | 850.00 KiB/s, done.
Resolving deltas: 100% (15/15), done.

```

Después he seguido los pasos de la guía para hacer el despliegue en Azure (3.4 Trabajo deploy / 3.4.1 Despliegue continuo).

Una vez desplegado y accesible desde el enlace

<https://moviefcards-service-villar.azurewebsites.net/>, he probado los endpoints para comprobar que funcionaban correctamente.

The screenshot shows two separate Postman requests to the `https://moviefcards-service-villar.azurewebsites.net/actors` endpoint.

**POST Request:**

- Method: POST
- URL: `https://moviefcards-service-villar.azurewebsites.net/actors`
- Body (raw JSON):

```

1 {
2   "id": "1",
3   "name": "Lady Gaga",
4   "birthDate": "1984-02-30",
5   "country": "EEUU",
6   "movies": []
7 }

```

- Response status: 200 OK
- Response body (Pretty):

```
1
```

**GET Request:**

- Method: GET
- URL: `https://moviefcards-service-villar.azurewebsites.net/actors`
- Params (Query Params):

Key	Value	Description	Bulk Edit
Key	Value	Description	

- Response status: 200 OK
- Response body (Pretty):

```

1 [
2   {
3     "id": 1,
4     "name": "Lady Gaga",
5     "birthDate": "1984-03-01T00:00:00.000+00:00",
6     "country": "EEUU",
7     "movies": []
8   }
9 ]

```

The screenshot shows the Postman interface. At the top, the URL is https://moviecards-service-villar.azurewebsites.net/actors/1. Below it, a GET request is selected, and the URL is again shown as https://moviecards-service-villar.azurewebsites.net/actors/1. The "Params" tab is active, showing a single parameter "Key". In the "Body" section, the response is displayed in JSON format:

```
1 {  
2   "id": 1,  
3   "name": "Lady Gaga",  
4   "birthDate": "1984-03-01T00:00:00.000+00:00",  
5   "country": "EEUU",  
6   "movies": []  
7 }
```

### 3) Nueva versión de moviecards

He creado una milestone nueva:

The screenshot shows a GitHub repository page for "adrianavillar / moviecard". The "Issues" tab is selected, showing 2 issues. A new milestone titled "Nueva version moviecards" is being created. The milestone details show 1 open issue and 1 closed issue. The status bar indicates 0% complete, 2 open, and 0 closed issues.

Después, he creado dos issues, me las he asignado a mi misma, al proyecto moviecards y a la milestone que acabo de crear “Nueva version moviecards”.

He pasado las dos issues a Todo, y una de ellas a In Progress:

Después de cambiar el código como indica la práctica, he hecho commit pero el proceso de despliegue ha fallado porque no ha superado la cobertura que tenía especificada:

```

qa
failed 1 minute ago in 24s
16s
Review code quality with Sonarqube
110 [INFO] SUM publisher in SUM system was detected. You can use the sonar.scm.provider property to explicitly specify it.
117 [INFO] CPD Executor: 7 files had no CPD blocks
118 [INFO] CPD Executor: Calculating CPD for 10 files
119 [INFO] CPD Executor: CPD calculation finished (done) | time=6ms
120 [INFO] Analysis report generated in 33ms, dir size=246.9 kB
121 [INFO] Analysis report compressed in 22ms, zip size=87.8 kB
122 [INFO] Analysis report uploaded in 211ms
123 [INFO] -----
124 [INFO] Check Quality Gate status
125 [INFO] -----
126 [INFO] BUILD FAILURE
127 [INFO] -----
128 [INFO] Total time: 14.613 s
129 [INFO] Finished at: 2025-02-01T23:01:22Z
130 [INFO] -----
131 [ERROR] Failed to execute goal org.sonarsource.scanner.maven:sonar-maven-plugin:3.10.0.2504:sonar (default-cli) on project moviecards:
132 [ERROR] QUALITY GATE STATUS: FAILED - View details on http://localhost:9000/dashboard?id=cm.lauraceras%3Amoviecards -> [Help 1]
133 [ERROR] To see the full stack trace of the errors, re-run Maven with the -e switch.
134 [ERROR] Re-run Maven using the -X switch to enable full debug logging.
135 [ERROR]
136 [ERROR] For more information about the errors and possible solutions, please read the following articles:
137 [ERROR] [Help 1] http://wiki.apache.org/confluence/display/MAVEN/MojoExecutionException
138 Error: Process completed with exit code 1.

```

Por ello, he ido a SonarQube y he bajado el nivel de cobertura a 0% para que pueda seguir con el despliegue:

The screenshot shows the SonarQube Quality Gates interface. A modal window titled "Update Condition" is open, showing a condition for "Coverage on New Code": "Operator is less than Value 0". Below this, a warning message states: "Extra conditions are not recommended. You added extra conditions to the 'Clean as You Code' quality gate, which is something we do not recommend. Learn why". The main table lists several quality gates with their conditions:

Metric	Operator	Value	Description
Coverage	is less than	0	A (Technical debt ratio is less than 5.0%)
Duplicated Lines (%)	is greater than	3.0%	
Maintainability Rating	is worse than	A (Technical debt ratio is less than 5.0%)	
Reliability Rating	is worse than	A (No bugs)	
Security Hotspots Reviewed	is less than	100%	
Security Rating	is worse than	A (No vulnerabilities)	

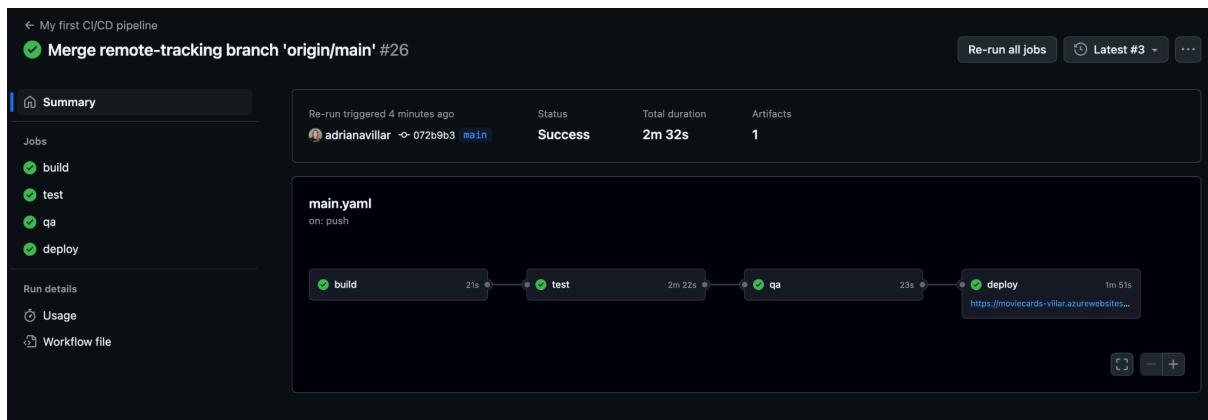
He aprobado manualmente el workflow:

The screenshot shows a GitHub pull request with the title "Manual approval required for workflow run 13093206216 #13". A green button labeled "Open" is visible. The pull request details show:

- adrianavillar opened now**
- Workflow is pending manual review.**
- URL: <https://api.github.com/adrianavillar/moviecard/actions/runs/13093206216>**
- Required approvers: [adrianavillar]**
- Respond "approved", "approve", "lgtm", "yes" to continue workflow or "denied", "deny", "no" to cancel.**

On the right side, there are sections for assignees, labels, projects, milestones, relationships, development, and notifications. A comment from "adrianavillar" is shown, self-assigning the issue and responding with "yes".

Y ha finalizado el despliegue.



Para comprobarlo he añadido desde Postman un actor más y desde la aplicación he comprobado que salgan en el listado de actores:

GET https://moviecards-service-villar.azurewebsites.net/actors

Params Authorization Headers (6) Body Scripts Tests Settings Cookies

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON

```

1 [ 
2   {
3     "id": 1,
4     "name": "Lady Gaga",
5     "birthDate": "1984-03-01T00:00:00.000+00:00",
6     "country": "EEUU",
7     "movies": []
8   },
9   {
10    "id": 2,
11    "name": "Katy Perry",
12    "birthDate": "1998-07-05T00:00:00.000+00:00",
13    "country": "EEUU",
14    "movies": []
15  }
16 ]

```

moviecards-villar.azurewebsites.net/actors

Finalizar actualización

Correo: Adriana Vil... Blackboard Learn Aula Virtual Anteproyecto Trab... Mi unidad - Googl... Crear nuevo actor Recientes - OneDr... WhatsApp Excalidraw Word | Microsoft 3...

### Listado Actores

Identificador	Nombre	Fecha Nacimiento	País	Editar
1	Lady Gaga	01-03-1984	EEUU	<button>Editar</button>
2	Katy Perry	05-07-1998	EEUU	<button>Editar</button>

Volver a la Página de Inicio

Por último, he pasado las dos issues a finalizado y el milestone también:

## 4) Añadir un nuevo atributo deadDate en la clase Actor

Dentro de la clase Actor.java he añadido el campo deadDate junto con sus respectivos getters y setters y he hecho commit.

```
@DateTimeFormat(pattern = "yyyy-MM-dd") 2 usages
private Date deadDate;
```

```
public Date getDeadDate() { return deadDate; }

public void setDeadDate(Date deadDate) { this.deadDate = deadDate; }
```

Desde postman he comprobado que funcione correctamente y guardase la fecha de fallecimiento:

```

1  [
2    {
3      "id": 1,
4      "name": "Katy Perry",
5      "birthDate": "1998-07-05T00:00:00.000+00:00",
6      "country": "EEUU",
7      "movies": [],
8      "deadDate": "1999-07-05T00:00:00.000+00:00"
9    },
10   {
11     "id": 2,
12     "name": "Lady Gaga",
13     "birthDate": "1998-07-05T00:00:00.000+00:00",
14     "country": "EEUU",
15     "movies": [],
16     "deadDate": "1999-07-05T00:00:00.000+00:00"
17   }
18 ]

```

## 5) Implementación de DeadDate en MovieCards

He creado el milestone y las issues. Además, he pasado las issues a Todo.

**Milestone Screenshot:**

1 Open    2 Closed

**Implementation of Death Date in MovieCards**

No due date    Last updated 1 minute ago

**Issues Screenshot:**

is:issue state:open

- Open 6    Closed 11
- Author    Labels    Projects    Milestones    Assignees    Types    Newest
- Reducir problemas críticos en SonarQube a menos de 5
- Actualizar pruebas de integración para incluir fecha de fallecimiento en actores
- Actualizar pruebas de integración para incluir fecha de fallecimiento en actores
- Modificar tests unitarios para manejar fecha de fallecimiento
- Modificar modelo y lógica para manejar fecha de fallecimiento
- Agregar trabajo "stage" al workflow para pre-producción

The screenshot shows a Trello board titled "moviecards". It has three columns: "Todo" (6 items), "In Progress" (0 items), and "Done" (4 items). The "Todo" column contains items like "moviecard #16" and "moviecard #17". The "Done" column contains items like "moviecard #2" and "moviecard #3".

Column	Items
Todo	moviecard #16, moviecard #17, moviecard #18, moviecard #19, moviecard #20, moviecard #21
In Progress	
Done	moviecard #2, moviecard #3, moviecard #9, moviecard #10

## 5.1)

He pasado la issue a In Progress:

The screenshot shows the same Trello board after one item has been moved. The "In Progress" column now has 1 item: "moviecard #14" which says "Agregar trabajo "stage" al workflow para pre-producción".

Column	Items
Todo	moviecard #16, moviecard #17, moviecard #18, moviecard #19, moviecard #20, moviecard #21
In Progress	moviecard #14
Done	moviecard #2, moviecard #3, moviecard #9, moviecard #10

He vuelto a crear una nueva aplicación web en azure, esta vez llamada moviecards-pre-villar.

En cuanto al código he añadido en el main.yaml una nueva fase llamada stage antes de deploy:

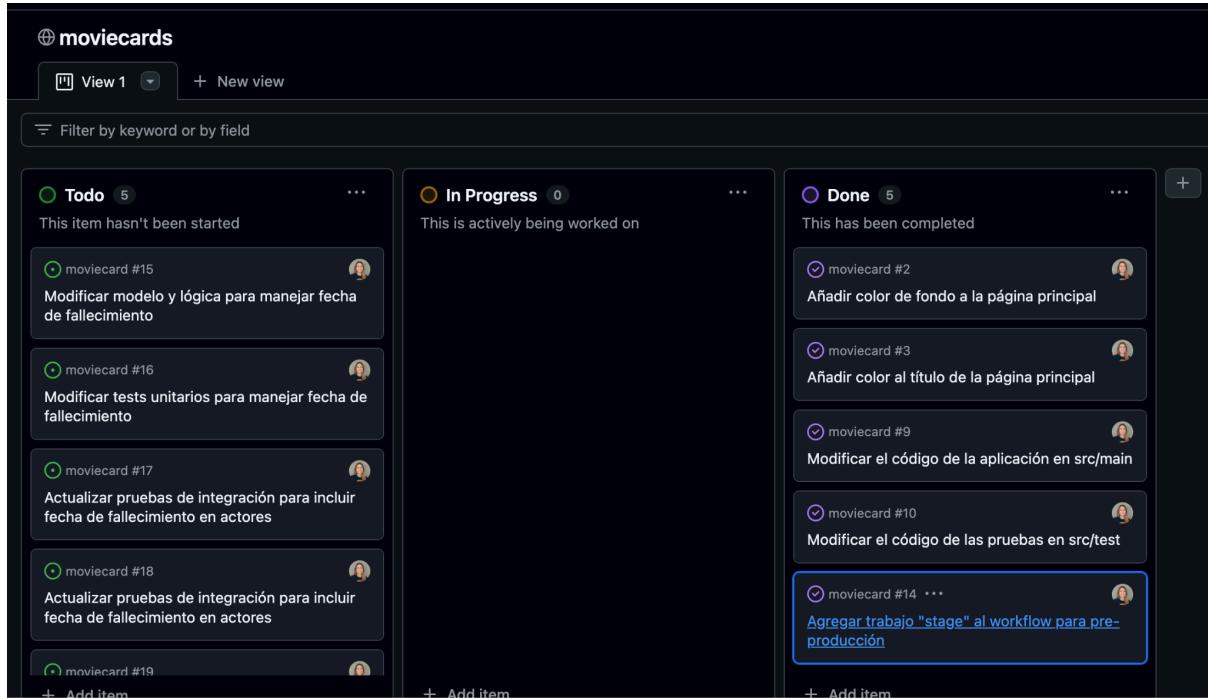
```

79   stage:
80     runs-on: ubuntu-latest
81     needs: qa
82     if: github.ref=='refs/heads/main'
83     environment:
84       name: 'Staging'
85       url: ${{ steps.deploy-to-webapp.outputs.webapp-url }}
86
87   steps:
88     - name: Download artifact from build job
89       uses: actions/download-artifact@v4
90       with:
91         name: moviecards-pre-java
92
93     - name: Deploy to Azure Web App (Staging)
94       id: deploy-to-webapp
95       uses: azure/webapps-deploy@v3
96       with:
97         app-name: 'moviecards-pre-villar'
98         slot-name: 'Staging'
99         package: '*.jar'
100        publish-profile: ${{ secrets.AZUREAPPSERVICE_PUBLISHPROFILE_12F11B88D8CE4CA7B28172DF9308BA566 }}
```

Una vez subidos los cambios quedan así las ramas. He hecho que la rama de producción dependa de la de preproducción porque así sería más seguro que todo se prueba bien antes de llegar a producción, pero depende del proyecto puede ser útil hacer pruebas rápidas en preproducción sin que afecten a producción y se podrían hacer en paralelo.

The screenshot shows the GitHub Actions pipeline interface. At the top, it says "My first CI/CD pipeline" and "Modificar secret de stagin #31". The status is "Success" with a duration of "6m 19s" and one artifact. On the left, there's a sidebar with "Summary", "Jobs" (listing build, test, qa, stage, deploy), "Run details", "Usage", and "Workflow file". The main area shows the "main.yml" workflow triggered via push 9 hours ago. It consists of five jobs: build, test, qa, stage, and deploy, connected by arrows indicating their sequence. The "test" job has a duration of 3m 27s, while others are 24s each. A "1m 14s" duration is also shown at the end. There are buttons for "Re-run all jobs" and "...".

Ya podemos pasar la issue a terminado:



## 5.2) 5.3) 5.4) 5.5)

He hecho los cambios en las clases necesarias, además de agregar el campo `deadDate` y modificar los tests unitarios, de integración y end to end.

```

53
54     @Test ✘ adrianavillar
55     void testSetGetDeadDate() {
56         Date deadDateExample = new Date();
57         actor.setDeadDate(deadDateExample);
58         assertEquals(deadDateExample, actor.getDeadDate());
59     }
60

61
62     @Test ✘ adrianavillar
63     public void testSaveActor() {
64         Actor actor = new Actor();
65         actor.setName("actor");
66         actor.setBirthDate(new Date());
67         actor.setCountry("spain");
68         actor.setDeadDate(new Date());
69
70         Actor savedActor = actorJPA.save(actor);
71
72         assertNotNull(savedActor.getId());
73
74         Optional<Actor> foundActor = actorJPA.findById(savedActor.getId());
75
76         assertTrue(foundActor.isPresent());
77         assertEquals(savedActor, foundActor.get());
78     }

```

```

@Test - adrianavillar
public void testPageLoad() {
    driver.get("http://localhost:8089/actors/new");
    assertEquals( expected: "FichasPelículasApp | Aplicación de gestión de fichas de películas", driver.getTitle());

    assertTrue(driver.findElement(By.id("name")).isDisplayed());
    assertTrue(driver.findElement(By.id("birthDate")).isDisplayed());
    assertTrue(driver.findElement(By.id("country")).isDisplayed());
    assertTrue(driver.findElement(By.id("deadDate")).isDisplayed());

}

```

```

@Test - adrianavillar
public void testListActors() {
    driver.get("http://localhost:8089/actors");
    WebElement title = driver.findElement(By.className("card-header"));
    assertEquals( expected: "Listado Actores", title.getText());

    WebElement table = driver.findElement(By.className("table-hover"));

    WebElement thead = table.findElement(By.tagName("thead"));
    assertTrue(thead.isDisplayed());

    WebElement headerRow = thead.findElement(By.tagName("tr"));
    assertEquals( expected: "Identificador", headerRow.findElements(By.tagName("th")).get(0).getText());
    assertEquals( expected: "Nombre", headerRow.findElements(By.tagName("th")).get(1).getText());
    assertEquals( expected: "Fecha Nacimiento", headerRow.findElements(By.tagName("th")).get(2).getText());
    assertEquals( expected: "País", headerRow.findElements(By.tagName("th")).get(3).getText());
    assertEquals( expected: "Fecha Fallecimiento", headerRow.findElements(By.tagName("th")).get(4).getText());
    assertEquals( expected: "Editar", headerRow.findElements(By.tagName("th")).get(5).getText());

}

```

Antes de subirlos he comprobado que todos los tests pasaran y así corregir los que no.



Como no estoy en la rama main el paso de deploy se lo salta pero podemos ver que todos los tests han pasado correctamente.

Y dentro de la aplicación vemos que se muestra correctamente la columna de deadDate y en el formulario se ha añadido correctamente el campo:

## Listado Actores

Identificador	Nombre	Fecha Nacimiento	País	Fecha Fallecimiento	Editar
1	Katy Perry	05-07-1998	EEUU	05-07-1999	<a href="#">Editar</a>
2	Lady Gaga	05-07-1998	EEUU	05-07-1999	<a href="#">Editar</a>

[Volver a la Página de Inicio](#)

He añadido un nuevo actor para comprobar el funcionamiento y podemos ver como se ha agregado en el listado de actores.

### Editar Actor

Actor actualizado correctamente

Nombre

Harry

Fecha nacimiento

01/02/2003



País

España

Fecha fallecimiento

20/01/2023



[Guardar](#)

No hay ninguna película registrada en la que haya participado este actor

[Volver a la Página de Inicio](#)

[Volver al listado de actores](#)

## Listado Actores

Identificador	Nombre	Fecha Nacimiento	País	Fecha Fallecimiento	Editar
1	Katy Perry	05-07-1998	EEUU	05-07-1999	<a href="#">Editar</a>
2	Lady Gaga	05-07-1998	EEUU	05-07-1999	<a href="#">Editar</a>
3	Harry	01-02-2003	España	20-01-2023	<a href="#">Editar</a>

[Volver a la Página de Inicio](#)

He mergeado la rama que he creado con mi rama main:

**Open a pull request**

Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks. [Learn more about diff comparisons here.](#)

**Require approval from specific reviewers before merging**  
[Rulesets](#) ensure specific people approve pull requests before they're merged.

**All checks have passed**  
4 successful and 1 skipped checks

- ✓ [My first CI/CD pipeline / build \(push\)](#) Successful in 20s [Details](#)
- ✓ [My first CI/CD pipeline / test \(push\)](#) Successful in 3m [Details](#)
- ✓ [My first CI/CD pipeline / qa \(push\)](#) Successful in 24s [Details](#)
- ✓ [My first CI/CD pipeline / stage \(push\)](#) Successful in 34s [Details](#)
- ✗ [My first CI/CD pipeline / deploy \(push\)](#) Skipped [Details](#)

**This branch has no conflicts with the base branch**  
Merging can be performed automatically.

[Merge pull request](#) [View details](#) You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

← My first CI/CD pipeline

**Merge pull request #24 from adrianavillar/añadir-campo-enddate #43**

[Re-run all jobs](#) [...](#)

Summary		Triggered via push 6 minutes ago	Status	Total duration	Artifacts
<a href="#">Jobs</a>	<a href="#">build</a> <a href="#">test</a> <a href="#">qa</a> <a href="#">stage</a> <a href="#">deploy</a>	<a href="#">adrianavillar pushed</a> → 7cc59d4 <a href="#">main</a>	<a href="#">Success</a>	6m 22s	1
Run details	<a href="#">Usage</a> <a href="#">Workflow file</a>	<b>main.yaml</b> on: push <pre> graph LR     build[build] -- "20s" --&gt; test[test]     test -- "2m 20s" --&gt; qa[qa]     qa -- "26s" --&gt; stage[stage]     stage -- "35s" --&gt; deploy[deploy]     stage -- "https://moviecards-pre-villar.azurewebsites.net" --&gt; deploy     deploy -- "2m 10s" --&gt; done[done]   </pre>			

Ya está subido en la rama principal y en deploy.

Ya podemos marcar como finalizadas las diferentes issues:

The screenshot shows a dark-themed mobile application interface. At the top left is a circular icon with a purple outline and the word "Done". To its right is a small number "9". On the far right is a three-dot menu icon. Below this, a message says "This has been completed". The main area contains five items, each in a separate card:

- moviecard #15: Modificar modelo y lógica para manejar fecha de fallecimiento
- moviecard #16: Modificar tests unitarios para manejar fecha de fallecimiento
- moviecard #17: Actualizar pruebas de integración para incluir fecha de fallecimiento en actores
- moviecard #18: Actualizar pruebas de integración para incluir fecha de fallecimiento en actores
- moviecard #2: + Add item

Each card includes a small profile picture of a person at the top right.

## 5.6)

Primero desde sonarqube he modificado el número de critical issues por el que fallaría el despliegue a 4 (con 5 o más falla):

Conditions on Overall Code

Metric	Operator	Value	Actions
Critical Issues	is greater than	4	

You may click unlock to edit this quality gate. Adding extra conditions to a compliant quality gate can result in drawbacks. Are you reconsidering [Clean as You Code?](#) We strongly recommend this methodology to achieve a Clean Code status.

Luego he filtrado dentro de issues las que son críticas para poder modificarlas en el código:

Last analysis of this Branch had 2 warnings February 2, 2025 at 1:51 PM Version 0.0.1-SNAPSHOT

Project Settings ▾ Project Information 1 / 8 issues 1h 12min effort

**Filters** My Issues All Clear All Filters

Issues in new code

Type: Bug 0, Vulnerability 2, Code Smell 6

Severity: CRITICAL (Blocker 2, Critical 8, Major 1), Minor 7, Info 42

Scope: Resolution, Status, Security Category, Creation Date

Bulk Change

src/.../moviecards/controller/ActorController.java

- Define a constant instead of duplicating this literal "actor" 3 times. (11 days ago, L40%, design)
- Replace this persistent entity with a simple POJO or DTO object. (11 days ago, L41%, design)
- Replace this persistent entity with a simple POJO or DTO object. (11 days ago, L42%, design)
- Replace this persistent entity with a simple POJO or DTO object. (11 days ago, L46%, design)

src/.../moviecards/controller/MovieController.java

- Define a constant instead of duplicating this literal "title" 3 times. (11 days ago, L40%, design)
- Replace this persistent entity with a simple POJO or DTO object. (11 days ago, L41%, design)
- Replace this persistent entity with a simple POJO or DTO object. (11 days ago, L42%, design)

Press ⌘ to add to selection

He hecho en local los cambios correspondientes y lo he desplegado para comprobarlo:

```
private static final String ACTOR_ATTRIBUTE = "actor"; 3 usages
private static final String TITLE_ATTRIBUTE = "title"; 3 usages
private static final String ACTORS_FORM_ATTRIBUTE = "actors/form"; 4 usages
```

Podemos ver en sonarqube que hemos reducido los fallos críticos a dos:

Last analysis of this Branch had 2 warnings February 2, 2025 at 2:32 PM Version 0.0.1-SNAPSHOT

Project Settings ▾ Project Information 1 / 2 issues 20min effort

**Filters** My Issues All Clear All Filters

Issues in new code

Type: Bug 0, Vulnerability 2, Code Smell 0

Severity: CRITICAL (Blocker 4, Critical 2, Major 1), Minor 7, Info 42

Scope: Resolution, Status, Security Category, Creation Date

Bulk Change

src/.../moviecards/controller/ActorController.java

- Replace this persistent entity with a simple POJO or DTO object. (11 days ago, L49%, design)

src/.../moviecards/controller/MovieController.java

- Replace this persistent entity with a simple POJO or DTO object. (11 days ago, L49%, design)

2 of 2 shown

Press ⌘ to add to selection

Y vemos que ha pasado sin problemas la fase de qa:

Triggered via push 6 minutes ago	Status	Total duration	Artifacts
adrianavillar pushed -> d810513 main	Success	5m 27s	1

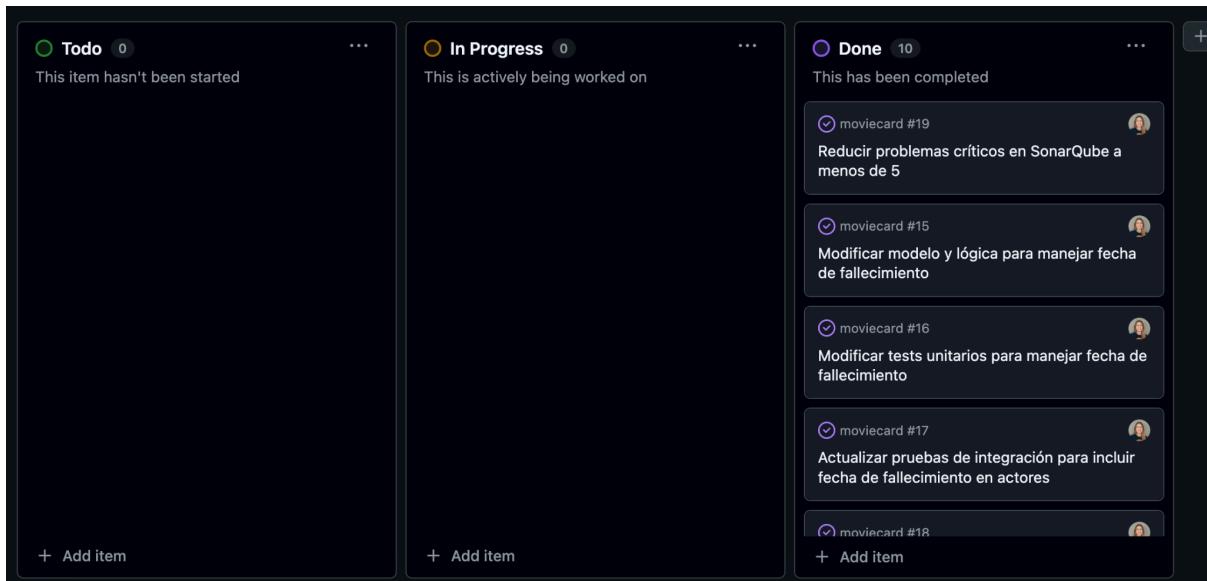
**main.yaml**

on: push

build → test → qa → stage → deploy

https://moviecards-pre-villar.azureweeb... https://moviecards-villar.azurewebsites...

Para finalizar he pasado la última issue a terminado:



Y he cerrado la milestone:

