

# Requirements – Student #4

Please, fill in the following form, save this document, and attach it to every deliverable. Attaching this document entails that you are the author of the work delivered, you have not cheated in any way, and you have read and understood the information delivered regarding the subject, with a special emphasis on the methodological guidelines and how your work is going to be graded. Make sure that your project works well with the latest version of the development framework.

Group: [ C2.X02 ]

Repository: [ <https://github.com/SoniaRM/Acme-SF-D04-24.5.0> ]

## Student #4

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Roles: [ desarrollador, tester, project manager ]

Date: [ Tomares Febrero 5, 2024 ]

# MANDATORY Deliverable D01: introduction

## Information requirements

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## Functional requirements

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- 1) Modify the anonymous menu so that it shows an option that takes the browser to the home page of your favourite web site. The title must read as follows: “{id-number}: {surname}, {name}”, where “{id-number}” denotes your DNI, NIE, or passport number, “{surname}” denotes your surname/s, and “{name}” denotes your name/s.

[ x ]

## Non-functional requirements

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Intentionally blank.

## Testing requirements

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Intentionally blank.

## Managerial requirements

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Intentionally blank.

## MANDATORY Deliverable D02: data models

### Information requirements

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- 2) The **sponsorships** are related to a **project** with the aim of achieving greater visibility in the market. The system must store the following data about them: a **code** (pattern “[A-Z]{1,3}-[0-9]{3}”, not blank, unique), a **moment** (in the past), a **duration** (after the moment, at least one month long), an **amount** (positive), a **type** of sponsorship (“Financial”, “In kind”), an **optional contact** email, and an **optional link** with further information.

[ X ]

- 3) Each **sponsorship** is billed through the use of **invoices**. The system must store the following data about them: a **code** (pattern “IN-[0-9]{4}-[0-9]{4}”, not blank, unique), a **registration time** (in the past), a **due date** (at least one month ahead the registration time), a **quantity** (positive not nought), the **tax** that it is applied (positive or nought), the **total amount** (calculated by adding together the **quantity** and the **tax applied**), and an **optional link** with further information.

[ X ]

- 4) The system must handle **sponsor** dashboards with the following data: total number of **invoices** with a **tax** less than or equal to 21.00%; total number of **sponsorships** with a **link**; average, deviation, minimum, and maximum **amount** of the **sponsorships**; average, deviation, minimum, and maximum **quantity** of the **invoices**.

[ X ]

### Functional requirements

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Intentionally blank.

### Non-functional requirements

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Intentionally blank.

### Testing requirements

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- 5) Produce assorted sample data to test your application informally. The data must include two **sponsor** accounts with credentials “**sponsor1/ sponsor1**” and “**sponsor2/ sponsor2**”.

[ X ]

### Managerial requirements

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Intentionally blank.

# MANDATORY Deliverable D03: implementing features

## Information requirements

Intentionally blank.

## Functional requirements

6) Operations by **sponsors** on **sponsorships**:

- List the **sponsorships** that they have created.
- Show the details of their **sponsorships**.
- Create, update, or delete their **sponsorships**. **Sponsorships** can be updated or deleted as long as they have not been published. For a **sponsorship** to be published, the sum of the **total amount** of all their **invoices** must be equal to the **amount** of the sponsorship.

[ X ] Se puede patronizar un proyecto que no está publicado. Los proyectos no publicados sólo pueden verse por sus managers propietarios.

### Sponsorship form

Code:  
A-000  
Must match pattern "[A-Z]{1,3}-[0-9]{3}". Must not be blank.

Project:  
----  
AAA-1234  
AAA-1112  
May not be null.

Start date:  
yyyy/mm/dd hh:mm  
May not be null.

End date:  
yyyy/mm/dd hh:mm  
May not be null.

Sponsorship type:  
----  
May not be null.

Amount  
EUR 123,456.78

Email (Optional):  
user@mail.com

More information (Optional):  
http://www.acme.com

Create Return

Como se puede apreciar en la pantalla anterior, hay dos proyectos, pero realmente solo el primero está publicado:

| project |        |             |                      |          |                 |                   |                |                |          |  |
|---------|--------|-------------|----------------------|----------|-----------------|-------------------|----------------|----------------|----------|--|
|         | 123 id | 123 version | ABC abstract_project | ABC code | 123 cost_amount | ABC cost_currency | 123 draft_mode | 123 indication | ABC link |  |
| 1       | 10     | 2           | Consectetur eius po  | AAA-1234 | 10,000          | EUR               | 0              | 0              |          |  |
| 2       | 19     | 0           | Ut et libero officia | AAA-1112 | 5,000           | EUR               | 1              | 0              |          |  |

Se puede patrocinar algo que empieza en el pasado:

## Sponsorship form

Code:

A-000

Project:

AAA-1112

Start date:

2022/06/07 10:00

End date:

2022/07/08 10:30

Sponsorship type:

FINANCIAL

Amount

EUR 0.00

Email (Optional):

consumer-test-1@mail.com

More information (Optional):

http://www.acme.com

Update

Delete


Publish

Invoices

Return

En el enunciado, requisito 2, se indica que la duración tiene que comenzar después del momento en el que se crea el patrocinio, es decir, a partir del 2022/07/30 00:01.

Si hago clic en publicar la entidad anterior, el sistema lanza la siguiente excepción:



ACME SF  
YOUR FIRST PROJECT IN DP2

Home Authenticated ▾ Any ▾ Sponsor ▾ Account ▾ Sign out

### Unexpected error

We are very sorry! If this unexpected error prevents you from working with our system, please, do contact us and we will try to solve it as soon as possible.

**Request:**  
POST http://localhost:8080/acme-sf-d04-24.4.0/sponsor/sponsorship/publish HTTP/1.1

**Status:**  
500 Internal Server Error

Una sponsorización no puede estar en el pasado. Se va a patrocinar un proyecto. No se hacen patrocinios en el pasado.

Home
Authenticated
Any
Sponsor
Account
Sign out

## Sponsorship form

**Code:**

This code is taken.

**Project:**

**Start date:**

**End date:**

Must be in the past.

**Sponsorship type:**

**Amount**

EUR 123,456.78

**Email (Optional):**

**More information (Optional):**

Create
Return

### 7) Operations by **sponsors** on **invoices**:

- List the **invoices** in their **sponsorships**.
- Show the details of their **invoices**.
- Create and publish an **invoice**.
- Update or delete an **invoice** as long as it is not published.

[X] Se admiten invoices que no cumplen con la restricción que indica que el due date debe ser al menos un mes posterior a la fecha de creación de la invoice, es decir, de la fecha del sistema. En otras palabras, solo se pueden crear invoices cuyo atributo due date sea a partir de 2022/08/30 00:00. En la siguiente captura se muestra una invoice creada en el 2020.2020/10/10 10:00

Invoice form

**Code:**

**Due date:**

**Quantity:**

**Tax:**

**More information (Optional):**

Update
Delete
Publish
Return

No entiendo cuándo se ve la cantidad en el patrocinio. He creado un patrocinio, una factura y la he publicado y no aparece en la cantidad del patrocinio:

## Detalles de patrocinio

Código:

ZZZ-123

Proyecto:

AAA-1234

Fecha inicio:

10/10/2021 10:00

Fecha final:

10/11/2021 10:30

Tipo de patrocinio:

FINANCIAL

Cantidad:

0,00 EUR

Correo (Opcional):

user@mail.com

Más información (Opcional):

http://www.acme.com

Actualizar

Borrar

Publicar

Facturas

Volver

## Detalles de patrocinio

Código:

IN-0000-0000

Fecha de vencimiento:

10/05/2022 10:00

Cantidad:

400,00 GBP

Impuesto:

5,00

Más información (Opcional):

http://www.acme.com

Volver

8) Operations by **sponsors** on **sponsor** dashboards:

- Show their **sponsor** dashboards.

[X] El cálculo no es correcto el número total de sponsorships with a link:

## Sponsor form

### General indicators

|  |            |
|--|------------|
| Total number of invoices with a tax less than or equal to 21.00% | 0          |
| Total number of sponsorships with a link                         | 2          |
| Average amount of the sponsorships                               | EUR 0.00   |
| Deviation amount of the sponsorships                             | EUR 0.00   |
| Minimum amount of the sponsorships                               | EUR 0.00   |
| Maximum amount of the sponsorships                               | EUR 0.00   |
| Average quantity of the invoices                                 | EUR 500.00 |
| Deviation quantity of the invoices                               | EUR 0.00   |
| Minimum quantity of the invoices                                 | EUR 500.00 |
| Maximum quantity of the invoices                                 | EUR 500.00 |

En la imagen anterior aparecen dos, pero en la base de datos, solo hay una con un link. De las tres que tengo en la BD solo las dos primeras son de ese sponsor, de modo que las están contando todas, las que tienen un link y las que no.

|   | id | abc_email                 | end_date                | abc_link              | moment                  | start_date              | type | project_id |
|---|----|---------------------------|-------------------------|-----------------------|-------------------------|-------------------------|------|------------|
| 1 | 1  | gurydebago@mailinator.com | 2020-12-10 10:30:00.000 | http://www.google.com | 2022-07-30 00:00:00.000 | 2020-10-10 10:00:00.000 | 0    | 19         |
| 2 | 1  | qwywk@mailinator.com      | 2021-12-10 10:00:00.000 |                       | 2022-07-30 00:00:00.000 | 2021-10-10 10:00:00.000 | 0    | 19         |
| 3 | 1  |                           | 2021-11-10 10:30:00.000 |                       | 2022-07-30 00:00:00.000 | 2021-10-10 10:00:00.000 | 0    | 10         |

## Non-functional requirements

Intentionally blank.

## Testing requirements

Intentionally blank.

## Managerial requirements

Intentionally blank.



## MANDATORY Deliverable D04: formal testing

### Information requirements

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Intentionally blank.

### Functional requirements

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Intentionally blank.

### Non-functional requirements

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Intentionally blank.

### Testing requirements

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9) Produce a test suite for Requirements #6 and #7.

[X] Realmente los tests no son correctos porque hay datos inválidos que permiten persistir las entidades y al revés. Es decir, si se indican fechas de un patrocinio o una invoice erróneas, como las que he puesto de ejemplo en los requisitos del D03, los tests deberían de devolver fallos y no los devuelven. De la misma forma, cuando se introducen datos correctos, por ejemplo una fecha en el futuro en el due date de la invoice, el test debería de dar un error de validación y no lo muestra. Los tests se deberían de haber usado para detectar este tipo de errores.

### Managerial requirements

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10) Produce a testing report.

[X] Solo se ha calculado el intervalo de confianza pero no se ha hecho el test de contraste de hipótesis.

## SUPPLEMENTARY Deliverable D01: introduction

### Information requirements

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Intentionally blank.

### Functional requirements

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Intentionally blank.

### Non-functional requirements

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Intentionally blank.

### Testing requirements

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Intentionally blank.

### Managerial requirements

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11) Produce an analysis report.

[ X ]

12) Produce a planning and progress report.

[ X ]

## SUPPLEMENTARY Deliverable D02: data models

### Information requirements

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- 13) There is a new project-specific role called **sponsor**, which has the following profile data: **name** (not blank, shorter than 76 characters), a list of expected **benefits** (not blank, shorter than 101 characters), an **optional web page** with further information, and an **optional email contact**.

[ X ]

### Functional requirements

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Intentionally blank.

### Non-functional requirements

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Intentionally blank.

### Testing requirements

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Intentionally blank.

### Managerial requirements

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- 14) Produce a UML domain model.

[ X ]

- 15) Produce an analysis report.

[ X ]

- 16) Produce a planning and progress report.

[ X ]

## SUPPLEMENTARY Deliverable D03: implementing features

### Information requirements

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Intentionally blank.

### Functional requirements

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17) Operations by anonymous principals on user accounts:

- Sign up to the system and become a **sponsor**.

[ X ]

18) Operations by **sponsors** on user accounts:

- Update their profiles.

[ X ]

19) Operations by any principals on **sponsorships**:

- List the **sponsorships** in the system that are published.
- Show the details of the **sponsorships** that they can list (excluding their **invoices**).

[ X ]

### Non-functional requirements

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Intentionally blank.

### Testing requirements

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Intentionally blank.

### Managerial requirements

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20) Produce an analysis report.

[ X ]

21) Produce a planning and progress report.

[ X ]

22) Produce a lint report.

[ X ]

## SUPPLEMENTARY Deliverable D04: formal testing

### Information requirements

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Intentionally blank.

### Functional requirements

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Intentionally blank.

### Non-functional requirements

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Intentionally blank.

### Testing requirements

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Intentionally blank.

### Managerial requirements

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23) Produce an analysis report.

[ X ]

24) Produce a planning and progress report.

[ X ]