

# Requirements – Student #4

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**Group:** C1.039

**Repository:** <https://github.com/pabalcber/C1.039-Acme-SF>

## **Student #4**

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**Name:** Yao, Jun

**Roles:** Developer, Operator

**Date:** Sevilla 02 14, 2023

# 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.

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## 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

- 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.

- 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.

- 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**.

### Functional requirements

Intentionally blank.

### Non-functional requirements

Intentionally blank.

### Testing requirements

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

### Managerial requirements

Intentionally blank.

# MANDATORY Deliverable D03: implementing features

## Information requirements

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Intentionally blank.

## Functional requirements

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### 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.

### 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.

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

- Show their **sponsor** dashboards.

## 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 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.

### Managerial requirements

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10) Produce a testing report.

## 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.

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12) Produce a planning and progress report.

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## 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**.

### 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.

- 15) Produce an analysis report.

- 16) Produce a planning and progress report.

## 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**.

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

- Update their profiles.

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**).

### 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.

21) Produce a planning and progress report.

22) Produce a lint report.



## 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.

24) Produce a planning and progress report.