

# Requirements – Student #2

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**Group:** C1.003

**Repository:** <https://github.com/IsmaelRuizJurado/Acme-SF-D01.git>

## **Student #2**

**ID Number:** 77846020J

**UVUS:** juamormog

**Name:** Moreno Moguel, Juan Antonio

**Roles:** developer, tester, operator, analyst

**Date:** Sevilla, 14 February 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) A **contract** is one or several agreements between the stakeholders involved in the development of a **project**. The system must store the following data about them: a **code** (pattern “[A-Z]{1,3}-[0-9]{3}”, not blank, unique), an **instantiation moment** (in the past), a **provider name** (not blank, shorter than 76 characters), a **customer name** (not blank, shorter than 76 characters), some **goals** (not blank, shorter than 101 characters), and a **budget** (less than or equal to the corresponding project cost).

- 3) Every **contract** has an evolution that is composed of **progress logs**. The system must store the following data about them: a **record id** (pattern “PG-[A-Z]{1,2}-[0-9]{4}”, not blank, unique), a percentage of **completeness** (positive), a **comment** on the progress (not blank, shorter than 101 characters), a **registration moment** (in the past), and a **responsible person** for the registration (not blank, shorter than 76 characters).

- 4) The system must handle **client** dashboards with the following data: total number of **progress logs** with a **completeness** rate below 25%, between 25% and 50%, between 50% and 75%, and above 75%; average, deviation, minimum, and maximum **budget** of the **contracts**.

### 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 **client** accounts with credentials “**client1/client1**” and “**client2/client2**”.

### Managerial requirements

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Intentionally blank.

# MANDATORY Deliverable D03: implementing features

## Information requirements

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Intentionally blank.

## Functional requirements

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6) Operations by **clients** on **contracts**:

- List the **contracts** that they have created.
- Show the details of their **contracts**.
- Create, update, or delete their **contracts**. **Contracts** can be updated or deleted as long as they have not been published. For a **contract** to be published, the sum of all budgets cannot exceed the total cost of the corresponding **project**.

7) Operations by **clients** on **progress logs**:

- List the **progress logs** in their **contracts**.
- Show the details of their **progress logs**.
- Create and publish a **progress log**.
- Update or delete a **progress log** as long as it is not published.

8) Operations by **clients** on **client** dashboards:

- Show their **client** 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 **clients**, which has the following profile data: **identification** (pattern “CLI-[0-9]{4}”, not blank, unique), a **company name** (not blank, shorter than 76 characters), **type** (not blank, either “company” or “individual”), an **email** (not blank), and an **optional link** with further information.

### 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 **client**.

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

- Update their profiles.

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

- List the **contracts** in the system that are published.
- Show the details of the **contracts** that they can list (including their **progress logs**).

### 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.