

# Requirements – Student #1

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**Group:** C1.029

**Repository:** <https://github.com/DP2-2024-C1-029/Acme-Software-Factory.git>

## **Student #1**

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**Roles:** Manager, Developer

**Date:** Sevilla 03/07, 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 **project** aggregates several **user stories** elicited by the same **manager**. The system must store the following data about them: a code (pattern “[A-Z]{3}-[0-9]{4}”, not blank, unique), a **title** (not blank, shorter than 76 characters), an **abstract** (not blank, shorter than 101 characters), an **indication** on whether it has fatal errors, e.g., panics, a **cost** (positive or nought), and an **optional link** with further information. Projects containing fatal errors must be rejected by the system.

X

- 3) A **user story** is a document that a **manager** uses to represent the smallest unit of work in a project. The system must store the following data about them: a **title** (not blank, shorter than 76 characters), a **description** (not blank, shorter than 101 characters), an **estimated cost** (in hours, positive, not nought), the **acceptance criteria** (not blank, shorter than 101 characters), a priority (“Must”, “Should”, “Could”, or “Won’t”), and an **optional link** with further information.

X

- 4) The system must handle **manager** dashboards with the following data: total number of “must”, “should”, “could”, and “won’t” **user stories**; average, deviation, minimum, and maximum **estimated cost** of the **user stories**; average, deviation, minimum, and maximum **cost** of the **projects**.

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 **manager** accounts with credentials “**manager1/manager1**” and “**manager2/manager2**”.

X

### 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 **managers** on **projects**:

- List the **projects** that they have created.
- Show the details of their **projects**.
- Create, update, or delete their **projects**. **Projects** can be updated or deleted as long as they have not been published. For a **project** to be published, it must have at least one **user story**, and all its **user stories** must have been published. Moreover, it must not have any fatal errors.

X

7) Operations by **managers** on **user stories**:

- List the **user stories** in their **projects**.
- Show the details of their **user stories**.
- Create and publish a **user story**.
- Update or delete a **user story** as long as it is not published.

X

8) Operations by **managers** on **manager** dashboards:

- Show their **manager** dashboards.

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 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.

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 **manager**, which has the following profile data: **degree** (not blank, shorter than 76 characters), an **overview** (not blank, shorter than 101 characters), list of **certifications** (not blank, shorter than 101 characters), and an **optional link** with further information.

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 **manager**.

X

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

- Update their profiles.

X

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

- List the **projects** in the system that are published.
- Show the details of the **projects** that they can list (excepting their **user stories**).

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.

24) Produce a planning and progress report.