

Requirements – Student #5

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Group: C1.039

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

Student #5

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Roles: developer

Date: Sevilla Febrero 14, 2024

MANDATORY Deliverable D01: introduction

Information requirements

Intentionally blank.

Functional requirements

- 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.

Non-functional requirements

Intentionally blank.

Testing requirements

Intentionally blank.

Managerial requirements

Intentionally blank.

MANDATORY Deliverable D02: data models

Information requirements

- 2) **Code audits** are essential pieces to ensure the quality 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 **execution date** (in the past), a **type** (“Static”, “Dynamic”), a list of proposed **corrective actions** (not blank, shorter than 101 characters), a **mark** (computed as the mode of the marks in the corresponding auditing records; ties must be broken arbitrarily if necessary), and an **optional link** with further information.

- 3) The result of each **code audit** is based on the analysis of their **audit records**. The system must store the following data about them: a **code** (pattern “AU-[0-9]{4}-[0-9]{3}”, not blank, unique), the **period** during which the subject was audited (in the past, at least one hour long), a **mark** (“A+”, “A”, “B”, “C”, “F”, or “F-”), and an **optional link** with further information.

- 4) The system must handle **auditor** dashboards with the following data: total number of **code audits** for “Static” and “Dynamic” types; average, deviation, minimum, and maximum number of **audit records** in their audits; average, deviation, minimum, and maximum time of the **period** lengths in their **audit records**.

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 **auditor** accounts with credentials “auditor1/auditor1” and “auditor2/auditor2”.

Managerial requirements

Intentionally blank.

MANDATORY Deliverable D03: implementing features

Information requirements

Intentionally blank.

Functional requirements

6) Operations by **auditors** on **code audits**:

- List the **code audits** that they have created.
- Show the details of their **code audits**.
- Create, update, or delete their **code audits**. **Code audits** can be updated or deleted as long as they have not been published. For a **code audit** to be published, the mark must be, at least, "C".

7) Operations by **auditors** on **audit records**:

- List the **audit records** in their **code audits**.
- Show the details of their **audit records**.
- Create and publish an **audit record**.
- Update or delete an **audit record** as long as it is not published.

8) Operations by **auditors** on **auditor** dashboards:

- Show their **auditor** dashboards.

Non-functional requirements

Intentionally blank.

Testing requirements

Intentionally blank.

Managerial requirements

Intentionally blank.

MANDATORY Deliverable D04: formal testing

Information requirements

Intentionally blank.

Functional requirements

Intentionally blank.

Non-functional requirements

Intentionally blank.

Testing requirements

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

Managerial requirements

10) Produce a testing report.

SUPPLEMENTARY Deliverable D01: introduction

Information requirements

Intentionally blank.

Functional requirements

Intentionally blank.

Non-functional requirements

Intentionally blank.

Testing requirements

Intentionally blank.

Managerial requirements

11) Produce an analysis report.

12) Produce a planning and progress report.

SUPPLEMENTARY Deliverable D02: data models

Information requirements

- 13) There is a new project-specific role called **auditor**, which has the following profile data: **firm** (not blank, shorter than 76 characters), **professional ID** (not blank, shorter than 26 characters), a list of **certifications** (not blank, shorter than 101 characters), and an **optional link** with further information.

Functional requirements

Intentionally blank.

Non-functional requirements

Intentionally blank.

Testing requirements

Intentionally blank.

Managerial requirements

- 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

Intentionally blank.

Functional requirements

17) Operations by anonymous principals on user accounts:

- Sign up to the system and become an **auditor**.

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

- Update their profiles.

19) Operations by any principals on **code audits**:

- List the **code audits** in the system that are published.
- Show the details of the **code audits** that they can list (including their **audit records**).

Non-functional requirements

Intentionally blank.

Testing requirements

Intentionally blank.

Managerial requirements

20) Produce an analysis report.

21) Produce a planning and progress report.

22) Produce a lint report.

SUPPLEMENTARY Deliverable D04: formal testing

Information requirements

Intentionally blank.

Functional requirements

Intentionally blank.

Non-functional requirements

Intentionally blank.

Testing requirements

Intentionally blank.

Managerial requirements

23) Produce an analysis report.

24) Produce a planning and progress report.