Requirements – Student #5

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: C1.015

Repository: https://github.com/jormunrod/Acme-SF-24.1.1

Student #5

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Roles: Desarrollador, Tester

Date: Sevilla Marzo, 8 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.

X

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.

X

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.

X

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**.

X

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**".

X

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".

X

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.

X

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

- Show their **auditor** dashboards.

X

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.

X

12) Produce a planning and progress report.

X

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.

X

Functional requirements

Intentionally blank.

Non-functional requirements

Intentionally blank.

Testing requirements

Intentionally blank.

Managerial requirements

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

Intentionally blank.

Functional requirements

17) Operations by anonymous principals on user accounts:

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

X

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

- Update their profiles.

X

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**).

X

Non-functional requirements

Intentionally blank.

Testing requirements

Intentionally blank.

Managerial requirements

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

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.