

Requirements – Student #5

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Group: C1.049

Repository: <https://github.com/rafcasceb/Acme-SF-D04>

Student #5

ID Number:

UVUS: adrvencon

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Roles: Analyst, Developer, Tester

Date: 25/05/2024

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.

X

Managerial requirements

10) Produce a testing report.

X

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.

X

24) Produce a planning and progress report.

X