Group deliverables: Acme Recipes

Acme Recipes, Inc. is a fictitious organisation that specialises in helping chefs and epicures. On the one hand, chefs can advertise their ingredients, kitchen utensils, and recipes; on the other hand, epicures can request fine dishes from them. The goal of this project is to develop a WIS to help this organisation manage their business. This document describes the requirements to fulfil.

Please, fill in the following form, save this document, and attach it to every deliverable. Attaching this document entails that you are the authors 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: G10

Repository: https://github.com/ddiazlop/Acme_Recipes_G10

Student #1

ID Number: 53738719-R
Name: Carrasco Díaz, Carolina
Roles: analista, desarrollador

Student #2

ID Number: 20060486-R
Name: Díaz López, Diego Jesús
Roles: project manager, analista, desarrollador

Student #3

ID Number: 47549618-Q
Name: Navarro Rodríguez, Julio
Roles: desarrollador

Student #4

ID Number: 29552748-W
Name: Parejo Ramos, Salvador
Roles: desarrollador

Student #5

ID Number: 53772352-P
Name: Pedraz Rodríguez, María Isabel
Roles: analista, desarrollador

Student #6

ID Number: 45339624-T
Name: Sevilla Cabrera, Álvaro
Roles: desarrollador

Date: Sevilla September 8, 2022

Evaluation report

This form is experimental. It's been carefully tested, but it might not work well. It's only provided on the purpose that you can know how the lecturers will evaluate and grade your work. They'll check the requirements and tick them as either fulfilled or unfulfilled; they'll also write comments in the grey boxes, when appropriate. Your group deliverable grade will be computed according to the formula in the syllabus; please, check it since it'll rule if a mistake is found in this form!

Recompute grades

Deliverable	# Requested requirements	# Fulfilled requirements	# Unfulfilled requirements	Grade
D01	9	9	0	10,0
D02	15	15	0	10,0
D03	23	1	22	9,56
D04	21	21	0	10,0
D05	5	5	0	10,0
Group deliverable grade (0.05 * D01 + 0.10 * D02 + 0.25 * D03 + 0.50 * D04 + 0.10 * D05)				9,89

General comments:

Deliverable D01: introduction

Information requirements

Intentionally blank.

Functional requirements

1) Modify the anonymous menu so that every member of your workgroup adds a sub-option that takes the browser to his or her favourite link. The text in the sub-options must match the following pattern: "⟨id-number⟩: ⟨surname⟩, ⟨name⟩", where "⟨id-number⟩" denotes a workgroup member's DNI, NIE, or passport number, "⟨surname⟩" denotes that member's surname/s, and "⟨name⟩" denotes his or her name.

X

Non-functional requirements

2) The system must be internationalised in English and Spanish. Other mainstream languages are welcome by the customer, but not required.

X

Managerial requirements

3) Instantiate and customise your starter project so that you can work on your deliverables. Make sure that the name of your project folder, maven configuration (pom.xml), and database is "Acme-Recipes-22.8".

X

4) Produce a workgroup report with the following contents:

   - A description of how the members of your workgroup were recruited.
   - For every member of your workgroup provide: contact data (surnames, names, corporate email address, and recent picture – no avatars or old pictures, please).
   - A formal agreement in which you all commit to working together in this subject, declare that you have understood its syllabus, with a special emphasis on the grading procedure, and commit to achieving a particular mark.
   - A formal agreement regarding how the performance of your workgroup members will be measured. The agreement must make it explicit what "performing well" and "performing badly" means.
   - A formal agreement regarding how workgroup members who perform well will be rewarded.
   - A formal agreement regarding how workgroup members who perform badly will be punished.
   - A formal statement that describes the conditions in which a workgroup member may be fired. Students who are fired may opt to keep working alone or to drop out.
   - The report must be dated and signed by every member of your team.

X

5) Produce a planning report, cf. the annexes.

X

6) Produce a progress report, cf. the annexes.

X

7) Produce a report in which you comment on how you have set up your development configuration. Please, note that we are not asking you to reproduce the guidelines to set it up; we are asking you for a report in which you make it clear that you've followed the guidelines and have your development configuration ready to work. The structure of the contents is up to you.

X

8) Produce a report on what you knew about the architecture of a WIS before this subject. The structure of the contents is up to you.

X

9) Produce a report on what you knew about testing a WIS before this subject. The structure of the contents is up to you.

X

Deliverable D02: the data model

Information requirements

1) The principals may have the following project-specific roles: chef and/or epicure (in addition to the default anonymous, authenticated, and administrator roles provided by the development framework). The project-specific roles must have a profile with the following data: an organisation (not blank, shorter than 101 characters), an assertion (not blank, shorter than 256 characters), and an optional link with further information. The system must be delivered with an account for an administrator principal with credentials “administrator/administrator”.

x

2) A peep is an informal short message. The system must store the following data about them: an instantiation moment, a heading (not blank, shorter than 101 characters), a writer (not blank, shorter than 101 characters), a piece of text (not blank, shorter than 256 characters), and an optional email address. The writer is not required to be the name of an actual principal.

x

3) A bulletin is a formal piece of news. The system must store the following data about them: an instantiation moment (in the past), a heading (not blank, shorter than 101 characters), a piece of text (not blank, shorter than 256 characters), a flag to indicate whether they are critical or not, and an optional link with further information.

x

4) An ingredient is any of the foods or substances that are combined to make a particular dish. The system must store the following data about them: a name (not blank, shorter than 101 characters), a code (pattern “^([A-Z]{2}:)?[A-Z]{3}-[0-9]{3}$”, unique), a description (not blank, shorter than 256 characters), a retail price (not nought, positive), and an optional link with further information.

x

5) A kitchen utensil is an artefact that allows to transform ingredients into dishes. The system must store the following data about them: a name (not blank, shorter than 101 characters), a code (pattern “^([A-Z]{2}:)?[A-Z]{3}-[0-9]{3}$”, unique), a description (not blank, shorter than 256 characters), a retail price (not nought, positive), and an optional link with further information.

x

6) A recipe is a document with ingredients and kitchen utensils that help prepare a dish. The system must store the following data about them: a code (pattern “^([A-Z]{2}:)?[A-Z]{3}-[0-9]{3}$”, unique), heading (not blank, shorter than 101 characters), description (not blank, shorter than 256 characters), preparation notes (not blank, shorter than 256 characters), and an optional link with further information. A recipe may have only one instance of a particular ingredient (indicating an amount unit like gram, kilo, cm3, gallon, spoon, or the like); it may have as many instances of a

particular kitchen utensil as necessary. The amount units are not requested to be managed, but that feature would be welcome by the customer.

x

7) A fine dish is a special request by an epicure to a chef. The system must store the following data about them: a status (proposed, accepted, or denied), a code (pattern "^([A-Z]{2}:)?[A-Z]{3}-[0-9]{3}$", unique), request (not blank, shorter than 256 characters), a budget (positive), a period of time (at least one month long, starting at least one month after the fine dish is instantiated), and an optional link with further information.

x

8) A memorandum consists of a series of messages exchanged between a chef and an epicure regarding a particular fine dish. The system must store the following data about them: an automatic sequence number (not blank, matches pattern "⟨fine dish-code⟩:⟨serial-number⟩", where "⟨fine dish-code⟩" denotes the code of corresponding fine dish and "⟨serial-number⟩" denotes a sequential number that starts at "0001" and gets increased with every new memorandum), an instantiation moment (in the past), a report (not blank, shorter than 256 characters), and an optional link with further information.

x

9) The system must handle epicure dashboards with the following data: total number of proposed/accepted/denied fine dishes; average, deviation, minimum, and maximum budget of proposed /accepted/denied fine dishes grouped by currency.

x

10) The system must handle administrator dashboards with the following indicators: total number of ingredients; average, deviation, minimum, and maximum retail price of ingredients, grouped by currency; total number of kitchen utensils; average, deviation, minimum, and maximum retail price of kitchen utensils, grouped by currency; total number of proposed/accepted/denied fine dishes; average, deviation, minimum, and maximum budget of proposed/accepted/denied fine dishes.

x

11) The system configuration must include the following initial data:

    - A system currency, which must be "EUR" by default.
    - A list of accepted currencies, which must be initialised to "EUR", "USD", and "GBP".
    - A list of spam tuples. A spam tuple consists of a spam term (one or more words separated by blanks) and its corresponding weight (in range 0.00 – 1.00). The default list of tuples must include ("sex", 0.10), ("viagra", 0.10), ("cialis", 0.10), ("hard core", 0.10), ("sexy", 0.05), ("nigeria", 0.05), ("you've won", 0.05), ("one million", 0.05) and their corresponding translations to the languages available for internationalisation.
    - A spam threshold, which must be 0.10 by default.

x

Functional requirements

Intentionally blank.

Non-functional requirements

Intentionally blank.

Managerial requirements

12) Produce a planning report, cf. the annexes.

x

13) Produce a progress report, cf. the annexes.

x

14) Produce a UML domain model.

x

15) Produce assorted sample data (methodologically). The credentials in the sample user accounts must be set after the pattern “chef1/ chef1”, “chef2/chef2”, “epicure1/epicure1”, “epicure2/epicure2”, and the like.

x

Deliverable D03: displaying data

Information requirements

Intentionally blank.

Functional requirements

1) Operations by all principals on user accounts:

    - List them grouped by project-specific role, excepting accounts that are disabled or have the anonymous or the administrator roles.
    - Show the identity and profiles of the user accounts that they can list, excepting the credentials and the enablement status.

```
x
```

2) Operations by all principals on peeps:

    - List the peeps that are not older than one month.

```
x
```

3) Operations by all principals on ingredients:

    - List the ingredients that have been published.
    - Show the details of an ingredient that he or she can list.

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x
```

4) Operations by all principals on kitchen utensils:

    - List the kitchen utensils that have been published.
    - Show the details of a kitchen utensil that he or she can list.

```
x
```

5) Operations by all principals on recipes:

    - List the recipes that that have been published.
    - List the recipes that have been published and include a particular ingredient or kitchen utensil.
    - Show the details of the recipes that they can list, including their prices, navigating to their ingredients and kitchen utensils, as well showing their details.

```
x
```

6) Operations by authenticated principals on bulletins:

   - List the bulletins that are not older than one month.
   - Show the details of the bulletins that they can list.

x

7) Operations by authenticated principals on the system configuration:

   - Show the information regarding the accepted currencies and the system currency. If applicable, show information about the service used to perform money exchanges.

x

8) Operations by chefs on ingredients:

   - List their own ingredients.
   - Show their own ingredients.

x

9) Operations by chefs on kitchen utensils:

   - List their own kitchen utensils.
   - Show their own kitchen utensils.

x

10) Operations by chefs on recipes:

   - List their own recipes.
   - Show their own recipes, including their prices, their ingredients, and their kitchen utensils.

x

11) Operations by chefs on fine dishes:

   - List their fine dishes.
   - Show their fine dishes, including the profile of the corresponding epicure.

x

12) Operations by chefs on memoranda:

   - List the messages in the memoranda of their fine dishes.
   - Show the messages in the memoranda of their fine dishes.

x

13) Operations by epicures on fine dishes:

- List their fine dishes.
- Show their fine dishes, including the profile of the corresponding chef.

```
x
```

14) Operations by epicures on memoranda:

- List the messages in the memoranda of their fine dishes.
- Show the messages in the memoranda of their fine dishes.

```
x
```

15) Operations by epicures on epicure dashboards:

- Show their epicure dashboards.

```
x
```

16) Operations by administrators on the system configuration:

- Show the system configuration. If applicable, show information about the service used to perform money exchanges.

```
x
```

17) Operations by administrators on administrator dashboards:

- Show the administrator dashboard.

```
x
```

Non-functional requirements

18) Moments, money amounts, and Booleans must be internationalised when they are shown. Other kinds of data might be, but are not expected to be internationalised.

```
x
```

Managerial requirements

19) Produce a planning report, cf. the annexes.

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x
```

20) Produce a progress report, cf. the annexes.

```
x
```

21) Produce a Lint report, cf. the annexes.

x

22) Produce a test suite for your project. Each member of your workgroup must focus on at least one feature and develop complete test cases for it.

23) Produce a performance report, cf. the annexes.

x

Deliverable D04: editing data

Information requirements

Intentionally blank.

Functional requirements

1) Operations by anonymous principals on user accounts:

    - Sign up to the system and become a chef and/or an epicure.

x

2) Operations by authenticated principals on user accounts:

    - Update their profiles.

x

3) Operations by all principals on peeps:

    - Instantiate a peep. Note that peeps cannot be updated or deleted; thus, the system must require confirmation before creating them.

x

4) Operations by chefs on ingredients:

    - Edit their own ingredients, which includes creating, updating, deleting, and publishing them. Updating or deleting an ingredient is allowed as long as it's not been published.

x

5) Operations by chefs on kitchen utensils:

    - Edit their own kitchen utensils, which includes creating, updating, deleting, and publishing them. Updating or deleting a kitchen utensil is allowed as long as it's not been published.

x

6) Operations by chefs on recipes:

    - Edit their own recipes, which includes creating, updating, deleting, and publishing them. Updating or deleting a recipe is allowed as long as it's not been published.

x

7) Operations by chefs on fine dishes:

   - Decide on a proposed fine dish in order to accept or deny it.

x

8) Operations by chefs on memoranda:

   - Instantiate a memorandum. Memoranda cannot be updated or deleted, which requires the system to request confirmation before creating them.

x

9) Operations by epicures on fine dishes:

   - Edit their fine dishes, which includes creating, updating, deleting, and publishing them. Updating or deleting a fine dish is allowed as long as it's not been published.

x

10) Operations by epicures on memoranda:

    - Instantiate a memorandum. Memoranda cannot be updated or deleted, which requires the system to request confirmation before creating them.

x

11) Operations by administrators on bulletins:

    - Instantiate a bulletin. Note that the bulletins cannot be updated or deleted; thus, the system must require confirmation to instantiate them.

x

12) Operations by an administrator principal on the system configuration:

    - Update the system configuration.

x

Non-functional requirements

13) Moments, money amounts, and Booleans must be internationalised when they are entered. Other kinds of data might be, but are not expected to be internationalised.

x

14) The system must show all money amounts as they are entered by the users, but also their corresponding money exchanges according to the system currency. The money exchanges must be performed online using a free-of-charge service available on the Web. It's the students' responsibility

to find the appropriate service; no implicit or explicit liabilities will be covered by the University of Seville if the students hire pay-per-use services!

x

15) The system must prevent the principals from storing peeps, bulletins, ingredients, kitchen utensils, or recipes if they are considered spam. A piece of text is considered spam if the sum of the weights of the terms in that piece of text divided by the total number of terms is greater than or equal to the spam threshold. The words that are not explicitly listed in the system configuration as spam terms are considered terms whose weight is nought. Realise that a term must be considered spam irrespective of its case and the blanks in between its words. For instance, "one␣million" is a spam term that matches "one␣million", "ONE␣MILLION", "OnE␣␣␣MiLLiOn", or "One␣⏎␣Million"; it doesn't match "One␣Millionaire", "One␣or␣two␣millions", or "One␣sex␣million", though.

x

16) The spam detector must be reusable across different projects; that is: it must be implemented as an independent project that must be packaged into a reusable .jar dependency. (Do not forget to deliver your spam detector project so that it can also be evaluated.)

x

Managerial requirements

17) Produce a planning report, cf. the annexes.

x

18) Produce a progress report, cf. the annexes.

x

19) Produce a Lint report, cf. the annexes.

x

20) Produce a test suite for your project. Each member of your workgroup must focus on at least one feature and develop complete test cases for it.

x

21) Produce a performance report, cf. the annexes.

x

Deliverable D05

Information requirements

Intentionally blank.

Functional requirements

Intentionally blank.

Non-functional requirements

Intentionally blank.

Managerial requirements

1) Produce a planning report, cf. the annexes. This report must include the planning of your full project, not only the planning regarding this deliverable.

x

2) Produce a progress report, cf. the annexes. This report must describe the progress of your full project, not only the progress report regarding this deliverable.

x

3) Produce a report that describes what you have learnt about the architecture of a WIS in this subject. The structure of the contents is up to you.

x

4) Produce a report that describes what you've learnt about testing in this subject. The structure of the contents is up to you.

x

5) Package the Acme Framework as an independent .jar component. Produce a new version of your D04 deliverable that uses the framework as an independent .jar component; check that your application keeps working when the framework is unlinked. Write a report in which you explain how you've achieved this requirement.

x

Annex: contents of reports

General structure

Every report is expected to look professional and have the following structure:

- Cover: include your workgroup number, your repository, the names of your colleagues, their corporate e-mail addresses, and date.
- Table of contents: simple listing with section numbers, titles, and page numbers.
- Executive summary: it is expected to be 50-250 word long in most cases.
- Revision table: include revision number, date, and short description on each entry.
- Introduction: describe the contents succinctly, and don't forget to describe the structure of the document in the last paragraph; a typical introduction is half a page or a page long.
- Contents: the structure varies according to the report to be produced.
- Conclusions: it is expected to be 200 word long in most cases.
- Bibliography: if there's no relevant bibliography, leave it "intentionally blank".

Contents of a planning report

The contents of a planning report consists of a list of tasks and a budget required to complete a particular deliverable.

Regarding the list of tasks, you must report on their titles, descriptions, assignees, roles, and time spent.

Regarding the budget, you must report on the total number of hours spent by each role, the total personnel cost (per role), and the amortisation cost. Typically, one manager's or one analyst's work hour costs approximately €25.00 and the other roles' work hour costs approximately €15.00. To compute the amortisation, assume that the amortisation period is three years' time.

Contents of a progress report

The contents of a progress report focus on the evaluation of the performance of the workgroup members, which must be computed according to the procedure on which the students agreed, plus a description of the rewards and punishments. Do not forget to report on the personnel conflicts and how you have addressed them.

Contents of a Lint report

The contents of a Lint report must include the bad smells reported by Lint regarding your project (not the framework or other libraries you use). In cases in which you think that Lint is reporting an innocuous bad smell, consult your lecturer and provide a clear justification in your report; otherwise, correct the bad smell and omit it from the report.

Contents of a performance report

The contents of a performance report must include two analysis regarding the 95%-confidence interval for the average wall time taken by the requests to your system. Each analysis must be performed on a different computer. The contents must also include a hypothesis contrast that makes it clear what the most efficient computer is at the 95% confidence level.

In the very exceptional cases in which a workgroup is composed of a single person, the first confidence-interval analysis must be performed on a single computer; the second confidence-interval analysis must be simulated as follows: shift the performance data obtained on the previous computer by adding/subtracting 10% the average request time obtained in the previous computer.