Requirements – Group

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: C1.03.14

Repository: https://github.com/c1-03-14/c1.03.14

Student #1

ID:	15432804B
UVUS:	alvsanflo1
Name:	Sanchez Flores, Alvaro
Roles:	Developer

Student #2

ID Number:	29548889F
UVUS:	gonsanmar2
Name:	Santiago Martín, Gonzalo
Roles:	Analyst, Developer

Student #3

ID Number:	15401004C
UVUS:	albtokmat
Name:	Tokos Matas, Alberto Antonio
Roles:	Developer

Student #4

ID Number:	08898467C
UVUS:	ferbarbar1
Name:	Barroso Barroso, Fernando
Roles:	Developer

Student #5

ID Number:	32081538B
UVUS:	vicgrabru
Name:	Gravan Bru, Victor
Roles:	Manager, Developer

Date: Sevilla March 17, 2023

Evaluation report

Recompute grades

Deliverable	# Statemented requirements	# Fulfilled requirements	# Unfulfilled requirements	Grade
D01	8	8	0	10,0
D02	11	11	0	10,0
D03	14	0	14	0,0
D04	5	0	5	0,0
Group grade: 0.10 * D01 + 0.10 * D02 + 0.40 * D03 + 0.40 * D04 =				2,0

Grader's comments:

Deliverable D01: introduction

Information requirements

Intentionally blank.

Functional requirements

Intentionally blank.

Non-functional requirements

1) The system must be internationalised in English and Spanish. Other mainstream languages are welcome, but not required. This requirement must be fulfilled in this and every subsequent group or individual deliverable.

   X

Testing requirements

Intentionally blank.

Managerial requirements

2) **[MANDATORY]** Instantiate and customise the appropriate starter project so that you can work on this project. Make sure that the name of your project folder, maven configuration (pom.xml), and database is "Acme-L3-D⟨dd⟩", where "⟨dd⟩" denotes the deliverable number using two digits. Make sure that you have followed the instructions in the "On Your Deliverables" document to package and deliver your work. This requirement must be fulfilled in this and every subsequent group or individual deliverable.

   X

3) Produce an analysis report regarding this deliverable.

   X

4) Produce a planning report.

   X

5) **[MANDATORY]** Produce a charting report.

   X

6) Produce a report on how you have set up your development configuration. We are not asking you to reproduce the guidelines to set it up, but to make it clear that you have followed them, and you have your development configuration ready to work.

X

7) Produce a report on what you knew about the architecture of a WIS before this subject.

X

8) Produce a report on what you knew about testing a WIS before this subject.

X

Deliverable D02: data models

Information requirements

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

   - A system currency, which must be initialised to "EUR".

   - A list of accepted currencies, which must be initialised to "EUR", "USD", and "GBP".

   X

10) **[MANDATORY]** A peep is a message posted by anyone. The system must store the following data about them: an instantiation moment (in the past), a title (not blank, shorter than 76 characters), a nick (not blank, shorter than 76 characters), a message (not blank, shorter than 101 characters), an optional email address, and an optional link.

   X

11) **[MANDATORY]** A bulletin is a message posted by an administrator. The system must store the following data about them: an instantiation moment (in the past), a title (not blank, shorter than 76 characters), a message (not blank, shorter than 101 characters), a flag to indicate whether it is critical or not, and an optional link with further information.

   X

12) **[MANDATORY]** An offer is a record in which an administrator advertises something. The system must store the following data about them: an instantiation moment (in the past), a heading (not blank, shorter than 76 characters), a summary (not blank, shorter than 101 characters), an availability period (at least one day after the offer is instantiated and must last for at least one week), a price (positive, possibly nought), and an optional link with further information.

   X

13) **[MANDATORY]** A note is a message posted by an authenticated principal. The system must store the following data about them: an instantiation moment, a title (not blank, shorter than 76 characters), an author (not blank, shorter than 76 characters), a message (not blank, shorter than 101 characters), an optional email address, and an optional link. The author must be computed as follows: "⟨username⟩ - ⟨surname, name⟩", where "⟨user-name⟩" denotes the username of the principal who has posted the note and "⟨surname, name⟩" denotes his or her full name.

   X

14) **[MANDATORY]** A banner allows administrators to advertise products, services, or organisations. The system must store the following data about them: an instantiation/update moment (in the past), a display period (must start at any moment after the instantiation/update moment and

must last for at least one week), a link to a picture that must be stored somewhere else, a slogan (not blank, shorter than 76 characters), and a link to a target web document.

X

15) The system must handle administrator dashboards with the following indicators: total number of principals with each role; ratio of peeps with both an email address and a link; ratios of critical and non-critical bulletins; average, minimum, maximum, and standard deviation of the budget in the offers grouped by currency; average, minimum, maximum, and standard deviation of the number of notes posted over the last 10 weeks.

X

Functional requirements

Intentionally blank.

Non-functional requirements

Intentionally blank.

Testing requirements

16) **[MANDATORY]** Produce initial data to cold start your project; it must include an administrator account with credentials "administrator/administrator". Produce assorted sample data to test your requirements; it must include two administrator accounts with credentials "administrator1/administrator1" and "administrator2/administrator2".

X

Managerial requirements

17) Produce an analysis report.

X

18) Produce a planning report.

X

19) Produce a UML domain model.

X

Deliverable D03: implementing features

Information requirements

Intentionally blank.

Functional requirements

20) Operations by administrators on the system configuration:

- Show the system configuration.
- Update the system configuration.

21) **[MANDATORY]** Operations by any principals on peeps:

- List the peeps and show their details.
- Publish a peep. By default, the nick must be kept blank if the principal is anonymous; otherwise, it must be filled with the principal's full name; anyway, it can be changed at will.

22) Operations by authenticated principals on bulletins:

- List the bulletins and show their details.

23) Operations by administrators on bulletins:

- Post a bulletin. This operation requires confirmation because bulletins cannot be updated or deleted.

24) Operations by authenticated principals on offers:

- List the offers in the system and show their details.

25) Operations by administrators on offers:

- List the offers in the system and show their details.
- Post, update or delete an offer.

26) Operations by authenticated principals on notes:

- List the notes that are not older than one month and show their details.

- Post a note. This operation requires confirmation because notes cannot be updated or deleted.

27) **[MANDATORY]** Operations by any principals on banners:

- Display any of them randomly, as long as its display period are active; the banners must be shown in every page as little intrusively as possible.

28) **[MANDATORY]** Operations by administrators on banners:

- List the banners and show their details.

- Create, update, or delete a banner.

Non-functional requirements

29) **[MANDATORY]** Moments, money amounts, and Booleans must be internationalised when they are shown. Other kinds of data are not expected to be internationalised. This requirement must be fulfilled in this and every subsequent group or individual deliverable.

30) The system must show money amounts as they are entered by the users, but also their corresponding money exchanges according to the system currency if their known exchange ratios are recent. It is the students' responsibility to find the appropriate exchange-rate service; no implicit or explicit liabilities shall be covered by the University of Seville or their individual affiliates if the students hire pay-per-use services! This requirement must be fulfilled in this and every subsequent group or individual deliverable for it to be considered fulfilled.

31) The system must prevent the principals from storing any data that can be considered spam. A piece of text is considered spam if the number of spam terms exceeds a predefined spam threshold. The default list of spam terms includes the following ones: "sex", "viagra", "cialis", "one million", "you've won", "nigeria", and their corresponding translations into the languages considered for internationalisation; the default spam threshold is 10%. Note that the previous default values can be changed at will by the administrators. 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. 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 dependency. Do not forget to deliver your spam detector project so that it can also be evaluated or, otherwise, this

requirement shall not be considered fulfilled.   This requirement must be fulfilled in this and every subsequent group or individual deliverable.

Testing requirements

Intentionally blank.

Managerial requirements

32) Produce an analysis report.

33) Produce a planning report.

Deliverable D04: formal testing

Information requirements

Intentionally blank.

Functional requirements

 Intentionally blank.

Non-functional requirements

Intentionally blank.

Testing requirements

34) **[MANDATORY]** Produce as a complete test suite as possible for Requirement #21.

35) **[MANDATORY]** Produce testing data for your test suites.

Managerial requirements

36) Produce an analysis report.

37) Produce a planning report.

38) Produce a testing report.