Universidad de Sevilla

Escuela Técnica Superior de Ingeniería Informática

Grado en Ingeniería Informática del Software

Diseño y Pruebas II

Curso 2021/2022

PLANNING REPORT Individual

Repositorio: https://github.com/Ginpasfer/Acme-Recipes
Repositorio Individual: https://github.com/antsolismir/Acme-Recipes-Individual

Grupo de Prácticas	*S07*
Estudiantes	**Rol**
Pastor Fernández, Ginés	Project Manager Developer Operator Tester
Giráldez Álvarez, Pablo	Developer Analyst Tester
Rijo Hernández, Badayco	Developer Tester
Solís Miranda, Antonio Manuel	Developer Operator Tester
Paradas Borrego, Álvaro	Developer Tester

Índice

1. Resumen ejecutivo

Este documento es el *Planning Report*. En él se incluyen las tareas realizadas para el entregable en cuestión. Al final del documento se encuentra una tabla con la planificación y sus costes. Conforme se avance en el proyecto este documento se irá actualizando.

2. Tabla de revisiones

Versión	Fecha	Autor	Descripción de cambios
1.0	17/07/2022	Ginés Pastor Fernández	- Creación del documento
2.0	01/08/2022	Ginés Pastor Fernández	- Actualización segundo entregable
3.0	6/08/2022	Ginés Pastor Fernández	- Actualización tercer entregable
4.0	24/08/2022	Ginés Pastor Fernández	- Actualización cuarto entregable
5.0	4/09/2022	Ginés Pastor Fernández	- Actualización quinto entregable
6.0	09/09/2022	Antonio Manuel Solís Miranda	- Actualización entregable individual

3. Introducción

En este documento se describen las diferentes tareas realizadas por nuestro grupo, estas tareas también incluyen información relacionada, así como el coste de las mismas. Este coste se calcula siguiendo las directrices que encontramos en el documento “Group deliverables” siendo el precio por hora del mánager o analista 25.00€ y el precio de 15.00€ para el resto de los roles.

Para ello, el contenido del documento se va a dividir por entregables, de forma que se puedan tener bien diferenciadas las tareas que pertenecen a cada uno de ellos. Dentro de estos, encontramos un apartado con una pequeña descripción de cada una de las tareas de ese sprint. Estas siempre empezaran en la tarea 0. En el siguiente punto, se puede ver una tabla con cada una de las tareas descritas anteriormente, su correspondiente tarea en github, el tipo de tarea, el miembro del grupo asignado a ella, el rol de este, el tiempo estimado y, por último, el presupuesto estimado junto a la amortización de este en tres años.

Además, y por último se detallará el desarrollo de las tareas de la entrega individual correspondiente a la prueba del día 09 de septiembre de 2022.

4. Contenido

4.1. Primer entregable

4.1.1. Descripción de tareas

- **Tarea 0**: Repository creation and configuration.
- **Tarea 1**: 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”.
- **Tarea 2**: Creation and division of tasks.
- **Tarea 3**: Produce a planning report.
- **Tarea 4**: Modify the anonymous menu. Adds a sub-option that takes the browser to their 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.
- **Tarea 5**: The system must be internationalised in English and Spanish. Other mainstream languages are welcome, but not required.
- **Tarea 6**: Produce a workgroup report.
- **Tarea 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.

- **Tarea 8**: Produce a report that describes what you know about the architecture of a WIS. Please, realise that we're asking you to report on what you know thanks to the previous subjects, not the architecture to be taught in this subject. The structure of the contents is up to you.
- **Tarea 9**: Produce a report that describes what you know about testing a WIS. Please, realise that we're asking you to report on what you know thanks to the previous subjects, not on the approach to testing to be taught in this subject. The structure of the contents is up to you.
- **Tarea 10**: Meeting to review all tasks.
- **Tarea 11**: Produce a progress report.
- **Tarea 12**: Prepare the project for delivery and deliver.
- **Tarea 13**: Meeting to supervise the correct delivery of the project.

4.1.2. Tabla de desglose y presupuesto

Título	Tarea en GitHub	Tipo	Asignatario	Rol	Tiempo (horas)	Presupuesto (euros)
Tarea 0	-	Environment preparation	Ginés Pastor Fernández	Manager	0.25	25*0.25=6.25
Tarea 1	Task-001	Environment preparation	Ginés Pastor Fernández	Manager	0.25	25*0.25=6.25
Tarea 2	-	Sprint preparation	Ginés Pastor Fernández	Manager	0.25	25*0.25=6.25
Tarea 3	Task-009	Documentation	Ginés Pastor Fernández	Manager	1	25*1=25
Tarea 4	Task-014	Feature	Ginés Pastor Fernández	Developer	0.25	15*0.25=3.75
Tarea 4	Task-015	Feature	Pablo Giráldez Álvarez	Developer	0.25	15*0.25=3.75
Tarea 4	Task-016	Feature	Antonio Solís Miranda	Developer	0.25	15*0.25=3.75
Tarea 4	Task-017	Feature	Badayco Rijo Hernández	Developer	0.25	15*0.25=3.75
Tarea 4	Task-018	Feature	Álvaro Paradas Borrego	Developer	0.25	15*0.25=3.75
Tarea 5	Task-007	Feature	Pablo Giráldez Álvarez	Developer	0.25	15*0.25=3.75
Tarea 6	Task-008	Documentation	Ginés Pastor Fernández	Manager	1	25*1=25
Tarea 7	Task-011	Documentation	Antonio Solís Miranda	Developer	1	15*1=15
Tarea 8	Task-012	Documentation	Badayco Rijo Hernández	Developer	1	15*1=15
Tarea 9	Task-013	Documentation	Álvaro Paradas Borrego	Developer	1	15*1=15
Tarea 10	-	Testing	Ginés Pastor Fernández	Tester	1	15*1=15
Tarea 10	-	Testing	Pablo Giráldez Álvarez	Tester	1	15*1=15
Tarea 10	-	Testing	Antonio Solís Miranda	Tester	1	15*1=15
Tarea 10	-	Testing	Badayco Rijo Hernández	Tester	1	15*1=15
Tarea 10	-	Testing	Álvaro Paradas Borrego	Tester	1	15*1=15
Tarea 11	Task-010	Documentation	Ginés Pastor Fernández	Manager	0.25	25*0.25=6.25
Tarea 12	-	Delivery	Ginés Pastor Fernández	Operator	0.25	15*0.25=3.75
Tarea 13	-	Meeting	Ginés Pastor	Operator	0.25	15*0.25=3.75

			Fernández			
Tarea 13	-	Meeting	Pablo Giráldez Álvarez	Tester	0.25	15*0.25=3.75
Tarea 13	-	Meeting	Antonio Solís Miranda	Tester	0.25	15*0.25=3.75
Tarea 13	-	Meeting	Badayco Rijo Hernández	Tester	0.25	15*0.25=3.75
Tarea 13	-	Meeting	Álvaro Paradas Borrego	Tester	0.25	15*0.25=3.75
Total (euros)						240
Amortización(euros)						240/3=80

4.2. Segundo entregable

4.2.1. Descripción de tareas

- **Tarea 0**: Creation and division of tasks.
- **Tarea 1**: Produce a planning report.
- **Tarea 2**: 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".
- **Tarea 3**: 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.
- **Tarea 4**: 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.
- **Tarea 5**: 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}$", unique), a description (not blank, shorter than 256 characters), a retail price (not nought, positive), and an optional link with further information.
- **Tarea 6**: A kitchen utensil is an artefact that allows to transform ingredients into dishes. The system must store the following data about them: a name (not blank, shorter than 101 characters), a code (pattern "^([A-Z]{2}:)?[A-Z]{3}-[0-9]{3}$", unique), a description (not blank, shorter than 256 characters), a retail price (not nought, positive), and an optional link with further information.
- **Tarea 7**: 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}$", unique), heading (not blank, shorter than 101 characters), description (not blank, shorter than 256 characters), preparation notes (not blank, shorter than 256 characters), and an optional link with further information. A recipe may have only one instance of a particular ingredient (indicating an amount unit like gram, kilo, cm3, gallon, spoon, or the like); it may have as many instances of a particular kitchen utensil as necessary. The amount units are not requested to be managed, but that feature would be welcome by the customer.
- **Tarea 8**: A fine dish is a special request by an epicure to a chef. The system must store the following data about them: a status (proposed, accepted, or denied), a code (pattern "^([A-Z]{2}:)?[A-Z]{3}-[0-9]{3}$", 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.
- **Tarea 9**: 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.

- **Tarea 10**: 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.
- **Tarea 11**: 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.
- **Tarea 12**: 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.
- **Tarea 13**: Produce a UML domain model.
- **Tarea 14**: 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.
- **Tarea 15**: Meeting to review all tasks.
- **Tarea 16**: Produce a progress report.
- **Tarea 17**: Prepare the project for delivery and deliver.
- **Tarea 18**: Meeting to supervise the correct delivery of the project.

4.2.2. Tabla de desglose y presupuesto

Título	Tarea en GitHub	Tipo	Asignatario	Rol	Tiempo (horas)	Presupuesto (euros)
Tarea 0	-	Sprint preparation	Ginés Pastor Fernández	Manager	0.5	25*0.5=12.5
Tarea 1	Task-030	Documentation	Ginés Pastor Fernández	Manager	0.5	25*0.5=12.5
Tarea 2	Task-019	Feature	Badayco Rijo Hernández	Developer	0.75	15*0.75=11.25
Tarea 3	Task-020	Feature	Badayco Rijo Hernández	Developer	0.5	15*0.5=7.5
Tarea 4	Task-021	Feature	Pablo Giráldez Álvarez	Developer	0.5	15*0.5=7.5
Tarea 5	Task-022	Feature	Ginés Pastor Fernández	Developer	0.5	15*0.5=7.5
Tarea 6	Task-023	Feature	Ginés Pastor Fernández	Developer	0.5	15*0.5=7.5
Tarea 7	Task-024	Feature	Pablo Giráldez Álvarez	Developer	0.5	15*0.5=7.5
Tarea 8	Task-025	Feature	Antonio Solís Miranda	Developer	0.5	15*0.5=7.5
Tarea 9	Task-026	Feature	Antonio Solís Miranda	Developer	0.5	15*0.5=7.5
Tarea 10	Task-027	Feature	Álvaro Paradas Borrego	Developer	0.5	15*0.5=7.5
Tarea 11	Task-028	Feature	Álvaro Paradas Borrego	Developer	0.5	15*0.5=7.5
Tarea 12	Task-029	Feature	Álvaro Paradas Borrego	Developer	0.5	15*0.5=7.5

Tarea 13	Task-032	Feature	Pablo Giráldez Álvarez	Analyst	0.5	25*0.5=12.5
Tarea 14	Task-033	Feature	Badayco Rijo Hernández	Developer	0.5	15*0.5=7.5
Tarea 15	-	Testing	Ginés Pastor Fernández	Tester	1	15*1=15
Tarea 15	-	Testing	Pablo Giráldez Álvarez	Tester	1	15*1=15
Tarea 15	-	Testing	Antonio Solís Miranda	Tester	1	15*1=15
Tarea 15	-	Testing	Badayco Rijo Hernández	Tester	1	15*1=15
Tarea 15	-	Testing	Álvaro Paradas Borrego	Tester	1	15*1=15
Tarea 16	Task-031	Documentation	Antonio Solís Miranda	Developer	0.25	15*0.25=3.75
Tarea 17	-	Delivery	Ginés Pastor Fernández	Operator	0.25	15*0.25=3.75
Tarea 18	-	Meeting	Ginés Pastor Fernández	Operator	0.25	15*0.25=3.75
Tarea 18	-	Meeting	Pablo Giráldez Álvarez	Tester	0.25	15*0.25=3.75
Tarea 18	-	Meeting	Antonio Solís Miranda	Tester	0.25	15*0.25=3.75
Tarea 18	-	Meeting	Badayco Rijo Hernández	Tester	0.25	15*0.25=3.75
Tarea 18	-	Meeting	Álvaro Paradas Borrego	Tester	0.25	15*0.25=3.75
Total del sprint anterior (euros)						240
Total sprint actual (euros)						232.5
Amortización total (euros)						472.5/3=157.5

4.3. Tercer entregable

4.3.1. Descripción de tareas

- **Tarea 0**: Creation and division of tasks.
- **Tarea 1**: Produce a planning report.
- **Tarea 2**: 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.
- **Tarea 3**: Operations by all principals on peeps:
  - List the peeps that are not older than one month.
- **Tarea 4**: 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.
- **Tarea 5**: 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.
- **Tarea 6**: 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.
- **Tarea 7**: 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.
- **Tarea 8**: 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.
- **Tarea 9**: Operations by chefs on ingredients:
    - List their own ingredients.
    - Show their own ingredients.
    -
- **Tarea 10**: Operations by chefs on kitchen utensils:
    - List their own kitchen utensils.
    - Show their own kitchen utensils.
- **Tarea 11**: Operations by chefs on recipes:
    - List their own recipes.
    - Show their own recipes, including their prices, their ingredients, and their kitchen utensils.
- **Tarea 12**: Operations by chefs on fine dishes:
    - List their fine dishes.
    - Show their fine dishes, including the profile of the corresponding epicure.
- **Tarea 13**: 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.
- **Tarea 14**: Operations by epicures on fine dishes:
    - List their fine dishes.
    - Show their fine dishes, including the profile of the corresponding chef.
- **Tarea 15**: 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.
- **Tarea 16**: Operations by epicures on epicure dashboards:
    - Show their epicure dashboards.
- **Tarea 17**: Operations by administrators on the system configuration:
    - Show the system configuration. If applicable, show information about the service used to perform money exchanges.
- **Tarea 18**: Operations by administrators on administrator dashboards:
    - Show the administrator dashboard.
- **Tarea 19**: 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.
- **Tarea 20**: Produce a Lint report.
- **Tarea 21**: 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.
- **Tarea 22**: Produce a performance report.
- **Tarea 23**: Meeting to review all tasks.
- **Tarea 24**: Produce a progress report.
- **Tarea 25**: Prepare the project for delivery and deliver.
- **Tarea 26**: Meeting to supervise the correct delivery of the project.

4.3.2. Tabla de desglose y presupuesto

Título	Tarea en GitHub	Tipo	Asignatario	Rol	Tiempo (horas)	Presupuesto (euros)
Tarea 0	-	Sprint preparation	Ginés Pastor Fernández	Manager	0.5	25*0.5=12.5
Tarea 1	Task-052	Documentation	Ginés Pastor Fernández	Manager	0.5	25*0.5=12.5
Tarea 2	Task-034	Feature	Badayco Rijo Hernández	Developer	1.5	15*1.5=22.5
Tarea 3	Task-035	Feature	Badayco Rijo Hernández	Developer	1.5	15*1.5=22.5
Tarea 4	Task-036	Feature	Ginés Pastor Fernández	Developer	1.5	15*1.5=22.5
Tarea 5	Task-037	Feature	Ginés Pastor Fernández	Developer	1.5	15*1.5=22.5
Tarea 6	Task-038	Feature	Pablo Giráldez	Developer	1.5	15*1.5=22.5

			Álvarez			
Tarea 7	Task-039	Feature	Pablo Giráldez Álvarez	Developer	1.5	15*1.5=22.5
Tarea 8	Task-040	Feature	Álvaro Paradas Borrego	Developer	1.5	15*1.5=22.5
Tarea 9	Task-041	Feature	Ginés Pastor Fernández	Developer	1.5	15*1.5=22.5
Tarea 10	Task-042	Feature	Ginés Pastor Fernández	Developer	1.5	15*1.5=22.5
Tarea 11	Task-043	Feature	Pablo Giráldez Álvarez	Developer	1.5	15*1.5=22.5
Tarea 12	Task-044	Feature	Antonio Solís Miranda	Developer	1.5	15*1.5=22.5
Tarea 13	Task-045	Feature	Antonio Solís Miranda	Developer	1.5	15*1.5=22.5
Tarea 14	Task-046	Feature	Antonio Solís Miranda	Developer	1.5	15*1.5=22.5
Tarea 15	Task-047	Feature	Antonio Solís Miranda	Developer	1.5	15*1.5=22.5
Tarea 16	Task-048	Feature	Álvaro Paradas Borrego	Developer	1.5	15*1.5=22.5
Tarea 17	Task-049	Feature	Álvaro Paradas Borrego	Developer	1.5	15*1.5=22.5
Tarea 18	Task-050	Feature	Álvaro Paradas Borrego	Developer	1.5	15*1.5=22.5
Tarea 19	Task-051	Feature	Badayco Rijo Hernández	Developer	1.5	15*1.5=22.5
Tarea 20	Task-054	Documentation	Badayco Rijo Hernández	Developer	1	15*1=15
Tarea 21	Task-055	Testing	Ginés Pastor Fernández	Tester	1	15*1=15
Tarea 21	Task-059	Testing	Pablo Giráldez Álvarez	Tester	1	15*1=15
Tarea 21	Task-057	Testing	Antonio Solís Miranda	Tester	1	15*1=15
Tarea 21	Task-056	Testing	Badayco Rijo Hernández	Tester	1	15*1=15
Tarea 21	Task-058	Testing	Álvaro Paradas Borrego	Tester	1	15*1=15
Tarea 22	Task-060	Documentation	Pablo Giráldez Álvarez	Developer	1	15*1=15
Tarea 23	-	Testing	Ginés Pastor Fernández	Tester	1	15*1=15
Tarea 23	-	Testing	Pablo Giráldez Álvarez	Tester	1	15*1=15
Tarea 23	-	Testing	Antonio Solís Miranda	Tester	1	15*1=15
Tarea 23	-	Testing	Badayco Rijo Hernández	Tester	1	15*1=15
Tarea 23	-	Testing	Álvaro Paradas Borrego	Tester	1	15*1=15
Tarea 24	Task-053	Documentation	Antonio Solís Miranda	Developer	0.25	15*0.25=3.75
Tarea 25	-	Delivery	Ginés Pastor Fernández	Operator	0.25	15*0.25=3.75
Tarea 26	-	Meeting	Ginés Pastor Fernández	Operator	0.25	15*0.25=3.75
Tarea 26	-	Meeting	Pablo Giráldez Álvarez	Tester	0.25	15*0.25=3.75
Tarea 26	-	Meeting	Antonio Solís	Tester	0.25	15*0.25=3.75

			Miranda			
Tarea 26	-	Meeting	Badayco Rijo Hernández	Tester	0.25	15*0.25=3.75
Tarea 26	-	Meeting	Álvaro Paradas Borrego	Tester	0.25	15*0.25=3.75
Total de los sprints anteriores (euros)						472.5
Total sprint actual (euros)						636.25
Amortización total (euros)						1108.75/3= 369.6

4.4. Cuarto entregable

4.4.1. Descripción de tareas

- **Tarea 0**: Creation and division of tasks.
- **Tarea 1**: Produce a planning report.
- **Tarea 2**: Operations by anonymous principals on user accounts:
  - Sign up to the system and become a chef and/or an epicure.
- **Tarea 3**: Operations by authenticated principals on user accounts:
  - Update their profiles.
- **Tarea 4**: 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.
- **Tarea 5**: 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.
- **Tarea 6**: 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.
- **Tarea 7**: 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.
- **Tarea 8**: Operations by chefs on fine dishes:
  - Decide on a proposed fine dish in order to accept or deny it.
- **Tarea 9**: Operations by chefs on memoranda:
  - Instantiate a memorandum. Memoranda cannot be updated or deleted, which requires the system to request confirmation before creating them.
- **Tarea 10**: 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.
- **Tarea 11**: Operations by epicures on memoranda:
  - Instantiate a memorandum. Memoranda cannot be updated or deleted, which requires the system to request confirmation before creating them.
- **Tarea 12**: 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.
- **Tarea 13**: Operations by an administrator principal on the system configuration:
  - Update the system configuration.
- **Tarea 14**: 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.
- **Tarea 15**: 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!
- **Tarea 16**: 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.

- **Tarea 17**: 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.)
- **Tarea 18**: Produce a Lint report.
- **Tarea 19**: 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.
- **Tarea 20**: Produce a performance report.
- **Tarea 21**: Meeting to review all tasks.
- **Tarea 22**: Produce a progress report.
- **Tarea 23**: Prepare the project for delivery and deliver.
- **Tarea 24**: Meeting to supervise the correct delivery of the project.

4.4.2. Tabla de desglose y presupuesto

Título	Tarea en GitHub	Tipo	Asignatario	Rol	Tiempo (horas)	Presupuesto (euros)
Tarea 0	-	Sprint preparation	Ginés Pastor Fernández	Manager	0.5	25*0.5=12.5
Tarea 1	Task-077	Documentation	Ginés Pastor Fernández	Manager	0.5	25*0.5=12.5
Tarea 2	Task-061	Feature	Badayco Rijo Hernández	Developer	2.5	15*2.5=37.5
Tarea 3	Task-062	Feature	Badayco Rijo Hernández	Developer	2.5	15*2.5=37.5
Tarea 4	Task-063	Feature	Badayco Rijo Hernández	Developer	2.5	15*2.5=37.5
Tarea 5	Task-064	Feature	Ginés Pastor Fernández	Developer	2.5	15*2.5=37.5
Tarea 6	Task-065	Feature	Ginés Pastor Fernández	Developer	2.5	15*2.5=37.5
Tarea 7	Task-066	Feature	Pablo Giráldez Álvarez	Developer	2.5	15*2.5=37.5
Tarea 8	Task-067	Feature	Antonio Solís Miranda	Developer	2.5	15*2.5=37.5
Tarea 9	Task-068	Feature	Antonio Solís Miranda	Developer	2.5	15*2.5=37.5
Tarea 10	Task-069	Feature	Antonio Solís Miranda	Developer	2.5	15*2.5=37.5
Tarea 11	Task-070	Feature	Antonio Solís Miranda	Developer	2.5	15*2.5=37.5
Tarea 12	Task-071	Feature	Pablo Giráldez Álvarez	Developer	2	15*2=30
Tarea 13	Task-072	Feature	Ginés Pastor Fernández	Developer	2	15*2=30
Tarea 14	Task-073	Feature	Pablo Giráldez Álvarez	Developer	1	15*1=15
Tarea 15	Task-074	Feature	Pablo Giráldez Álvarez	Developer	2	15*2=30
Tarea 16	Task-075	Feature	Ginés Pastor Fernández	Developer	2	15*2=30
Tarea 17	Task-076	Feature	Badayco Rijo Hernández	Developer	1	15*1=15
Tarea 18	Task-079	Documentation	Badayco Rijo Hernández	Developer	1	15*1=15

Tarea 19	Task-080	Testing	Ginés Pastor Fernández	Tester	2	15*2=30
Tarea 19	Task-080	Testing	Pablo Giráldez Álvarez	Tester	2	15*2=30
Tarea 19	Task-080	Testing	Antonio Solís Miranda	Tester	2	15*2=30
Tarea 19	Task-080	Testing	Badayco Rijo Hernández	Tester	2	15*2=30
Tarea 20	Task-084	Documentation	Pablo Giráldez Álvarez	Developer	1	15*1=15
Tarea 21	-	Testing	Ginés Pastor Fernández	Tester	1.5	15*1.5=22.5
Tarea 21	-	Testing	Pablo Giráldez Álvarez	Tester	1.5	15*1.5=22.5
Tarea 21	-	Testing	Antonio Solís Miranda	Tester	1.5	15*1.5=22.5
Tarea 21	-	Testing	Badayco Rijo Hernández	Tester	1.5	15*1.5=22.5
Tarea 22	Task-078	Documentation	Antonio Solís Miranda	Developer	1	15*1=15
Tarea 23	-	Delivery	Ginés Pastor Fernández	Operator	0.25	15*0.25=3.75
Tarea 24	-	Meeting	Ginés Pastor Fernández	Operator	0.25	15*0.25=3.75
Tarea 24	-	Meeting	Pablo Giráldez Álvarez	Tester	0.25	15*0.25=3.75
Tarea 24	-	Meeting	Antonio Solís Miranda	Tester	0.25	15*0.25=3.75
Tarea 24	-	Meeting	Badayco Rijo Hernández	Tester	0.25	15*0.25=3.75
Total de los sprints anteriores (euros)						1108.75
Total sprint actual (euros)						823.75
Amortización total (euros)						1932.5/3= 644.16

4.5. Quinto entregable

4.5.1. Descripción de tareas

- **Tarea 0**: Creation and division of tasks.
- **Tarea 1**: Produce a planning report.
- **Tarea 2**: Produce a report that describes what you have learnt about the architecture of a WIS in this sub-ject
- **Tarea 3**: Produce a report that describes what you've learnt about testing in this subject
- **Tarea 4**: Package the Acme Framework as an independent .jar component
- **Tarea 5**: Produce a test suite for your project.
- **Tarea 6**: Produce a progress report.
- **Tarea 7**: Prepare the project for delivery and deliver.
- **Tarea 8**: Meeting to supervise the correct delivery of the project.

4.5.2. Tabla de desglose y presupuesto

Título	Tarea en GitHub	Tipo	Asignatario	Rol	Tiempo (horas)	Presupuesto (euros)
Tarea 0	-	Sprint preparation	Ginés Pastor Fernández	Manager	0.25	25*0.25=6.25
Tarea 1	Task-084	Documentation	Ginés Pastor Fernández	Manager	0.25	25*0.25=6.25
Tarea 2	Task-086	Documentation	Pablo Giráldez Álvarez	Developer	1	15*1=15

Tarea 3	Task-087	Documentation	Badayco Rijo Hernández	Developer	1	15*1=15
Tarea 4	Task-088	Documentation	Ginés Pastor Fernández	Developer	1	15*1=15
Tarea 5	-	Testing	Ginés Pastor Fernández	Tester	0.5	15*0.5=7.5
Tarea 5	-	Testing	Pablo Giráldez Álvarez	Tester	0.5	15*0.5=7.5
Tarea 5	-	Testing	Antonio Solís Miranda	Tester	0.5	15*0.5=7.5
Tarea 5	-	Testing	Badayco Rijo Hernández	Tester	0.5	15*0.5=7.5
Tarea 6	Task-085	Documentation	Antonio Solís Miranda	Developer	0.5	15*0.5=7.5
Tarea 7	-	Delivery	Ginés Pastor Fernández	Operator	0.25	15*0.25=3.75
Tarea 8	-	Meeting	Ginés Pastor Fernández	Operator	0.25	15*0.25=3.75
Tarea 8	-	Meeting	Pablo Giráldez Álvarez	Tester	0.25	15*0.25=3.75
Tarea 8	-	Meeting	Antonio Solís Miranda	Tester	0.25	15*0.25=3.75
Tarea 8	-	Meeting	Badayco Rijo Hernández	Tester	0.25	15*0.25=3.75
Total de los sprints anteriores (euros)						1932.5
Total sprint actual (euros)						113.75
Amortización total (euros)						2046.25/3= 682.083

Los presupuestos se han calculado teniendo en cuenta los siguientes sueldos:

Rol	Sueldo (euros/h)
Project Manager	25
Analyst	25
Operator	15
Tester	15
Developer	15

Por otro lado, se ha tenido en cuenta un período de 3 años para el cálculo de la amortización.

Rol	Horas totales (h)	Coste por rol (euros)	Amortización por rol (euros)
Project Manager	6.5	162.5	162.5/3=54.1666
Analyst	0.5	12.5	12.5/3=4.1666
Operator	2.5	37.5	37.5/3=12.5
Tester	40.5	607.5	607.5/3=202.5
Developer	81.75	1226.25	1226.25/3=408.75
Total	131.75	2046.25	682.083

5. Entregable Individual

5.1. Descripción de tareas

- **Tarea 0**: An INGREDIENT may have one QUOTELAS (no QUOTELAS may exist in isolation). For every QUOTELAS, the system must store the following attributes: CODE (a unique code with pattern "^\w{2}\d{2}-mmddyy$", where "yy", "mm", and "dd" in the pattern refer to the year, month, and day when the PIMPAM is instantiated), INSTANTIATION-MOMENT (the moment when the QUOTELAS is instantiated), NAME (a title, not blank, shorter than 101 characters), EXPLANATION (a summary, not blank, shorter than 256 characters),TIME-INTERVAL (a period of time, at least one month ahead the moment when the entity is instantiated, and one week long), SHARE (money, positive, not nought), ADDITIONAL-INFO (an optional link with further information).
- **Tarea 1**: Display operations by administrators on the system dashboard: The system dashboard must be updated with the following indicators: ratio of INGREDIENTs with a QUOTELAS, average, deviation, minimum, and maximum SHARE of QUOTELAS grouped by currency.
- **Tarea 2**: Display operations by CHEFs on INGREDIENTs and QUOTELAs: Display the QUOTELAs associated with their INGREDIENTs (list and show).
- **Tarea 3**: Edit operations by CHEFs on INGREDIENTs and QUOTELAs: Edit the QUOTELAs associated with their ITEMs (instantiate, update, delete as long as the corresponding INGREDIENT is not published).
- **Tarea 4**: Produce a planning report regarding this maintenance request. The specific tasks to perform during the control must be in an independent section. (Recall that the control will last for 1h 30 m).
- **Tarea 5**: Produce a test suite for the functional requirements regarding the new display and edit operations that a CHEF may perform on INGREDIENTs and QUOTELASs.
- **Tarea 6**: Gather the following data series: a) wall time to serve the requests in the previous test suite on your own computer; b) wall time to serve the requests in the previous test suite on your own computer plus/minus 10% the average of the previous series (the decision on whether to add/subtract must be made randomly). Produce a performance report with a 95% confidence interval for the average of each of the previous data series and compare them to determine which one results in the smallest average.
- **Tarea 7**: Deliver the individual deliverable.

5.2. Tabla de desglose y presupuesto

Título	Tarea en GitHub	Tipo	Asignatario	Rol	Tiempo (horas)	Presupuesto (euros)
Tarea 0	-	Feature	Antonio Manuel Solis Miranda	Developer	0.25	15*0.25=3.75
Tarea 1	-	Feature	Antonio Manuel Solis Miranda	Developer	0.25	15*0.25=3.75
Tarea 2	-	Feature	Antonio Manuel Solis Miranda	Developer	0.25	15*0.25=3.75
Tarea 3	-	Feature	Antonio Manuel Solis Miranda	Developer	0.25	15*0.25=3.75
Tarea 4	-	Documentation	Antonio Manuel Solis Miranda	Developer	0.10	15*0.10=1.5
Tarea 5	-	Testing	Antonio Manuel Solis Miranda	Tester	0.15	15*0.15=2.25
Tarea 6	-	Documentation	Antonio Manuel Solis Miranda	Tester	0.15	15*0.15=2.25
Tarea 7	-	Delivery	Antonio Manuel Solis Miranda	Operator	0.10	15*0.10=1.5
Total del entregable individual (euros)						22.50
Amortización total (euros) (3 años)						22.50/3= 7.50

Se ha tenido en cuenta que el control individual dura 1 hora y 30 minutos por lo tanto son 1.5 horas. Como aclaración, no sea utilizado un tablero para el proyecto en GitHub, por lo que la columna "Tarea en GitHub" no procede para este apartado.

Los presupuestos se han calculado teniendo en cuenta los siguientes sueldos:

Rol	Sueldo (euros/h)
Project Manager	25
Analyst	25
Operator	15
Tester	15
Developer	15

Por otro lado, se ha tenido en cuenta un período de 3 años para el cálculo de la amortización.

Rol	Horas totales (h)	Coste por rol (euros)	Amortización por rol (euros)
Operator	0.10	1.50	1.50/3=0.50
Tester	0.30	4.50	4.50/3=1.50
Developer	1.10	16.50	16.50/3=5.50
Total	1.50	22.50	7.50

6. Conclusión

Gracias a la elaboración de este informe podemos ver con más detalle la realización de las tareas del grupo de trabajo, algunos de los datos que podemos ver sobre estas son: el miembro que han realizado cada una de las tareas, los roles que han ocupado en la realización de la misma, el tipo de tarea en cuestión y su correspondencia en GitHub. Además, podemos ver el tiempo empleado por cada uno de los miembros que han realizado dicha tarea.

A continuación, vemos un presupuesto que se calcula en función del tiempo empleado para realizar la tarea. Este se calcula en base a un precio por horas que depende del rol y es dado por las directrices que encontramos en el documento “Group deliverables”.

Al finalizar el proyecto, podemos ver que el costo total estimado ha sido de 2046.25€. Por tanto, debido a que el proyecto se amortiza a tres años, el precio anual de este sería 682.083€. También podemos ver como para el entregable individual, el costo total estimado es de 22.50€ y al ser amortizado en tres años es de 7.50€.

7. Bibliografía

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