DESIGN AND TESTING 2
SPRINT 1

Group 2
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Content
First the level chosen for our project will be mentioned. Then show a summary of the full description of this. Finally, this summary is specified with the different entities and features that will be implemented in our application.

Content

1.- PROJECT DECRIPTION

a.- General description of the web application

Choice type and level:

Extension of the example provided, level 2 (min. 5 entities + 20 user stories).

Summary:

Our project consists in extending the project provided by the professors. The main features we are going to improve or implement are:

- The way visits are used: Instead of just having the owner or an administrator register the date of a visit, we will implement a fully automated scheduling system. An owner will be able to select a free timeslot with a veterinary of his choice, which will then be registered in the system.
- Payment information for a visit, including credit card data if applicable, will be stored in the system.
- In order to estimate the duration of a visit (for the scheduling) and its cost (for the payment system), we will categorize the visits by type (operation, revision, consultation)
- Veterinarians will be able to add a diagnosis to a visit, including prescriptions for medications.

b.- Entities

Entities to modify

Visit
Modified attributes:

- date: renamed to moment. Should represent a date with time

New relationships and attributes:

- Vet (many to one)
- VisitType (many to one)
- Diagnosis (one to one, optional)
- Paymnet (one to one, optional

New entities

These are the new entities that will be implemented with their attributes:

VisitType → Name, Price, Duration.
The default types are: consultation (20€, 30 min), revision (15€, 30 min) and operation (100€, 60 min), free (0€, 30min).

Diagnosis → Moment, Description.
Relationships: Prescription (one to many)

Prescription → Frequency, Quantity.
Relationships: Medicine (many to one)

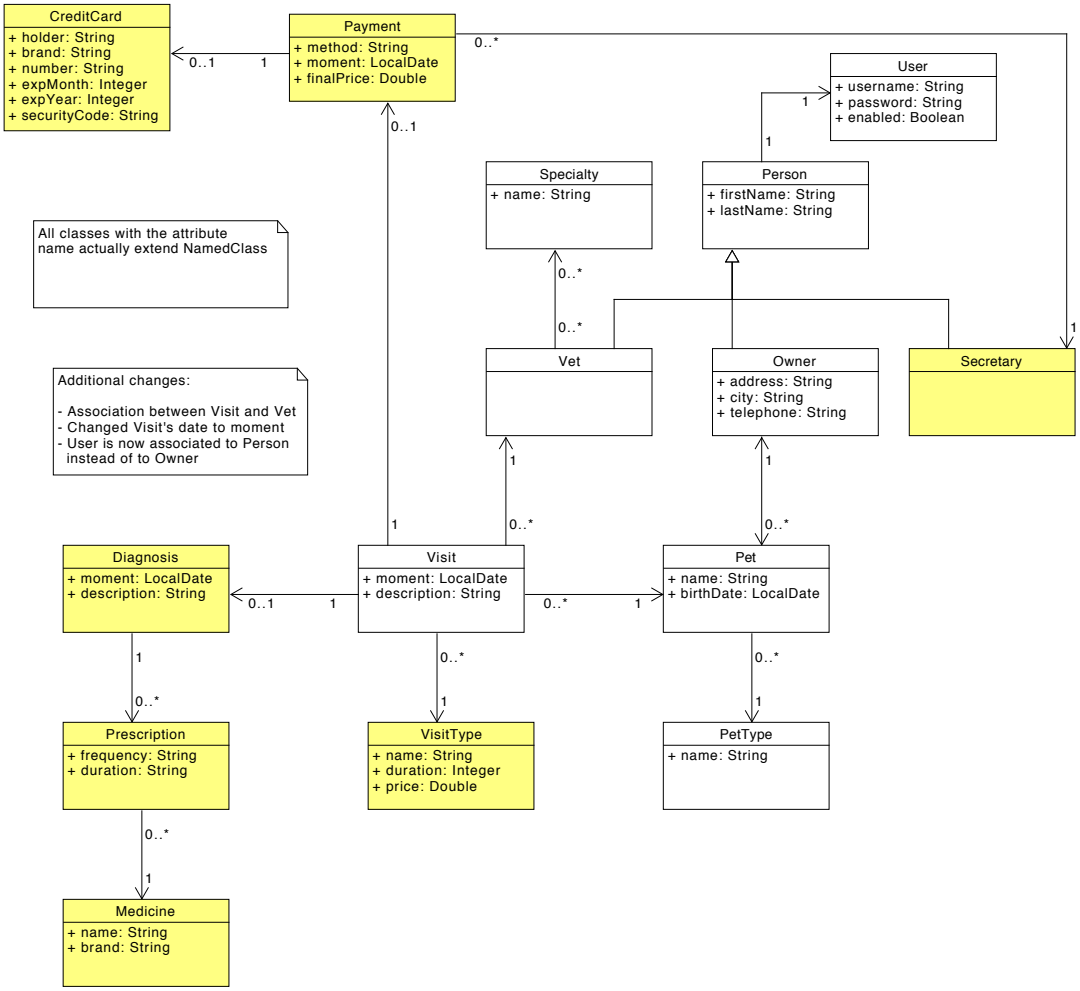
Medicine → Name, Business.

Payment → Date and time, Quantity), Method.
Relationships: CreditCard (one to one, optional), Secretary (many to one)

CreditCard → Holder, Brand, Number, ExpMonth, ExpYear, SecurityCode.
Relationships: None

Secretary
Extends from Person and has an associated user. This kind of user is in charge of registering payments.

The relationship between the classes can be seen in the following UML diagram. New classes that we will implement are highlighted in yellow.



c.- User stories

User stories that we will implement in our application:

Visit scheduling
(Visit, VisitType, Vet, Pet, Owner)

User story #1
Feature: Schedule an appointment online
As a pet owner
So that I don't have to call
I want to be able to schedule appointments online.
(Involved entities: Owner, Pet, Visit)

User story #2
Feature: Request a visit with a specific veterinarian
As a pet owner
So that I can receive service from a veterinarian that had treated my pet before
I want to be able to request a visit with a specific veterinarian
(Involved entities: Owner, Pet, Vet)

User story #3
Feature: Manage appointments automatically
As a clinic owner
So that I can automate the scheduling process
I want the system to manage appointments for visits automatically, including making sure that no appointment is made outside of working hours (8:00 am – 8:00 pm, Monday through Friday) and that no vet has two visits scheduled at the same time
(Involved entities: Visit, Vet)

User story #4
Feature: Select a type of visit
As a clinic owner
So that time and visits are better utilized
I want that the owner of a pet can select a type of visit, which has an approximate duration.
(Involved entities: Visit, Owner, VisitType)

User story #5A
Feature: Upcoming visits view (pet owner)
As a pet owner
So that I won't forget an appointment
I want a view that shows the visits I have scheduled in the future
(Involved entities: Visit, Owner)

User story #5B
Feature: Past visits view (pet owner)
As a pet owner
So that I can see the visits I made with my pets and the diagnosis for each one
I want a view that shows the visits I have had in the past and the diagnosis for each one
(Involved entities: Visit, Pet, Diagnosis, Prescription, Medicine, Owner)

User story #6
Feature: Upcoming visits view (vet)
As a vet
So that I know what I'll have to do in a given week
I want a view that shows the visits I have scheduled by week
(Involved entities: Visit, Vet)

Payment registration
(Visit, Payment, CreditCard, Secretary)

User story #7
Feature: Register a payment with credit card or cash
As a pet owner
So that I can have the freedom of choosing how to pay for my visit
I want to be able to pay with credit card or cash
(Involved entities: Visit, Payment, CreditCard)

User story #8
Feature: Validate credit card
As a clinic owner
So that I can guarantee that all payments are registered correctly
I want that all credit cards introduced in the system are validated. No payment should be stored with an expired credit card or one that has an incorrect number
(Involved entities: Visit, Payment)

User story #9
Feature: Store who registered a payment
As a clinic owner
So that I can make sure no fraudulent payments are registered
I want that every payment includes the secretary that registered it
(Involved entities: Visit, Payment, CreditCard, Secretary)

User story #10
Feature: Suggest price for a visit based on its type
As a secretary
So that I know how much to charge a client
I want that the price of a visit is suggested based on its type.
(Involved entities: Visit, VisitType)

User story #11
Feature: Freely assign price to a visit
As a clinic owner
So that the secretaries can adjust the price of a visit to specific circumstances
I want that when registering a payment, the price is already filled in based on the visit type, but can be changed manually
(Involved entities: Visit, Payment, VisitType)

User story #12
Feature: View all unpaid visits
As a secretary
So that I know which visits have not been paid yet
I want a view that lists all unpaid visits ordered by moment and which includes links to each visit so that I can pay them
(Involved entities: Visit, Payment)

Diagnosis registration
(Visit, Diagnosis, Prescription, Medicine)

User story #13
Feature: Add diagnosis to a visit
As a vet
So that I can later consult the medical history of a pet
I want to be able to add a diagnosis to a visit
(Involved entities: Visit, Diagnosis)

User story #14
Feature: Add prescriptions to a diagnosis
As a vet
So that I can tell the owner what medicine to give their pets
I want to be able to add prescriptions to a diagnosis.
(Involved entities: Diagnosis, Prescription, Medicine)

User story #15
Feature: Select medicine from database
As a vet
So that I can make sure I don't prescribe a medicine that doesn't exist or is spelled differently
I want to select a medicine from a list of medicines stored in the system when registering a prescription
(Involved entities: Prescription, Medicine)

Medicine registration
(Medicine)

User story #16
Feature: Add new medicine the system
As an administrator
So that vets can prescribe new medicine
I want add new medicine to the system
(Involved entities: Medicine)

User story #17
Feature: Edit or delete the medicines in the system
As an administrator
So that I can correct potential mistakes
I want to be able to edit or delete medicines (as long as they haven't been prescribed yet)
(Involved entities: Medicine, Prescription)

Admin dashboard
(Visit, Payment, Diagnosis)

User story #18
Feature: View revenue by month
As an administrator
So that I can know how the clinic is doing economically
I want a view that shows the total revenue (sum of all payments) by month
(Involved entities: Visit, Payment)

User story #19
Feature: See all the characteristics of visits already made
As an administrator
So that I can check the correct functioning of the clinic
I want a view with all the visits already made that includes the features of that visits and a link for their diagnosis and payment.
(Involved entities: Visit, Payment, Diagnosis)

VisitType management
(VisitType)

User story #20
Feature: Add new types of visit
As a admin
So that the system can be customized to the necessities of the clinic
I want to be able to add new types of visit
(Involved entities: VisitType)

User story #21
Feature: Edit types of visit
As a admin
So that the prices of the services that are offered can be changed but the scheduling doesn't become inconsistent
I want to be able to edit only the price of a type of visit, and that the duration can not be edited once the type is created
(Involved entities: VisitType)

d.- Features to modify in the existing system

- When login as Vet, in Owner tab, an exception is raised.
- There are many owners for the same user. Limit to 1. In the list of owners put his personal data.
- A user not authenticated can't do anything.
- Change logo and add something on the home page.
- Change association from user->owner to user->person

e.- Specification with examples

User story #1 (Schedule an appointment online)

[US1-P1] Schedule correct appointment (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1 *and password* 0wn3r*, that owns a pet named* Pepe*; a vet named* Antonio Sánchez *that has a free slot* 2020-08-03 11:00 am*; a visit type named* consultation.

1. Log into the platform as owner1 (password: 0wn3r)
2. Go to the view for scheduling a new visit
3. Select as pet 'Pepe', as vet 'Antonio Sánchez', and as type 'consultation'
4. There should be a view that shows a weekly calendar in form of a table with all free slots for the given vet
5. Select a free slot, 2020-08-03 11:00 am

Result: The visit is stored in the system. It should be visible to the owner in the upcoming visits view. If another or the same owner want to schedule a visit, the slot should be taken.

[US1-N1] Try to schedule 2 visits at the same time for the same vet (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1 *and password* 0wn3r*, that owns a pet named* Pepe*; another user that is an owner, with name* owner2 *and password* owner2*, that owns a pet named* Mario; *a vet named* Antonio Sánchez *that has a free slot* 2020-08-03 12:00 am*; a visit type named* consultation*; another visit type named* revision.

1. Log into the platform as owner1 (password: 0wn3r)
2. Go to the view for scheduling a new visit
3. Select as pet 'Pepe', as vet 'Antonio Sánchez', and as type 'consultation'
4. In a different window, log in as owner2 (password: owner2)
5. Go to the view for scheduling a new visit
6. Select as pet 'Mario, as vet 'Antonio Sánchez', and as type 'revision'
7. Select the slot 2020-08-04 12:00 am and confirm
8. As owner1, select the same slot (2020-08-04 12:00 am) and confirm

Result: A error message should be shown.

[US1-N2] Owner without pet tries to make an appointment (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner3 *and password* owner3*, that doesn't have any pets.*

1. Log into the platform as owner3 (password: owner3)
2. Go to the view for scheduling a new visit

Result: A message should be shown telling the owner that he has to add a pet first

Summary of scenarios for US1

Scenario	Owner	Pet	Owner has pet?	Slot	Slot occupied?	Result
US1-P1	Owner1	Pepe	Yes	2020/08/03 11:00 am	No	Success
US1-N1	Owner1	Pepe	Yes	2020/08/03 12:00 am	Yes	Error
US1-N2	Owner3	N/A	No	N/A	N/A	Error

User story #2 (Request a visit with a specific veterinarian)

[US2-P1] Schedule correct appointment (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1 *and password* 0wn3r*, that owns a pet named* Pepe*; a vet named* Antonio Sánchez *that has a free slot* 2020-08-03 1:00 pm*; a visit type named* consultation.

1. Log into the platform as owner1 (password: 0wn3r)
2. Go to the view for scheduling a new visit
3. Select as pet 'Pepe', as vet 'Antonio Sánchez', and as type 'consultation'
4. There should be a view that shows a weekly calendar in form of a table with all free slots for the given vet
5. Select a free slot, 2020-08-03 1:00 pm

Result: The visit is stored in the system. It should be visible to the owner in the upcoming visits view. If another or the same owner want to schedule a visit, the slot should be taken.

[US2-N1] Send a POST request with a vet that doesn't exist (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1 *and password* 0wn3r*, that owns a pet named* Pepe*; a visit type named* consultation. *No vet named* Invalid vet *should exist in the system.*

1. Log into the platform as owner1 (password: 0wn3r)
2. Go to the view for scheduling a new visit
3. Select as pet 'Pepe', and as type 'consultation'
4. Select as vet 'Invalid vet', a vet that doesn't exist tin the dropdown menu, for example by editing the html form manually
5. There should be a view that shows a weekly calendar in form of a table with all free slots for the given vet
6. Select a free slot, 2020-08-03 12:00 pm

Result: An exception should be shown.

Summary of scenarios for US2

Scenario	Vet selected	Vet exists?	Result
US2-P1	Antonio Sánchez	Yes	Success
US2-N1	Invalid vet	No	Error

User story #3 (Manage appointments automatically)

[US3-P1] Schedule a correct appointment (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1 *and password* 0wn3r*, that owns a pet named* Pepe*; a vet named* Antonio Sánchez *that has a free slot* 2020-08-03 2:00 pm*; a visit type named* consultation.

1. Log into the platform as owner1 (password: 0wn3r)
2. Go to the view for scheduling a new visit
3. Select as pet 'Pepe', as vet 'Antonio Sánchez', and as type 'consultation'
4. There should be a view that shows a weekly calendar in form of a table with all free slots for the given vet
5. Select a free slot, 2020-08-03 2:00 pm

Result: The visit is stored in the system. It should be visible to the owner in the upcoming visits view. If another or the same owner want to schedule a visit, the slot should be taken.

[US3-N1] Try to schedule an appointment outside of working hours (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1 *and password* 0wn3r*, that owns a pet named* Pepe*; a vet named* Antonio*; a visit type named* consultation.

1. Log into the platform as owner1 (password: 0wn3r)
2. Go to the view for scheduling a new visit
3. Select as pet 'Pepe', as vet 'Antonio Sánchez', and as type 'consultation'
4. There should be a view that shows a weekly calendar in form of a table with all free slots for the given vet
5. Select a slot outside of working hours, 2020-08-03 02:00 am, for example by editing the html form manually

Result: An exception should be shown

Summary of scenarios for US3

Scenario	Slot	Slot outside of working hours?	Result
US3-P1	2020-08-03 2:00 pm	No	Success
US3-N1	2020-08-03 2:00 am	Yes	Error

User story #4 (Select a type of visit)

[US4-P1] Schedule a correct appointment (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1 *and password* 0wn3r*, that owns a pet named* Pepe*; a vet named* Antonio Sánchez *that has a free slot* 2020-08-03 3:00 pm*; a visit type named* consultation*.*

1. Log into the platform as owner1 (password: 0wn3r)
2. Go to the view for scheduling a new visit
3. Select as pet 'Pepe', as vet 'Antonio Sánchez', and as type 'consultation'
4. There should be a view that shows a weekly calendar in form of a table with all free slots for the given vet
5. Select a free slot, 2020-08-03 3:00 pm

Result: The visit is stored in the system. It should be visible to the owner in the upcoming visits view. If another or the same owner want to schedule a visit, the slot should be taken.

[US4-N1] Send a POST request with a nonexistent visit type (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1 *and password* 0wn3r*, that owns a pet named* Pepe*; a vet named* Antonio Sánchez *that has a free slot* 2020-08-03 4:00 pm*. No visit type names* Invalid type *should exist in the system.*

1. Log into the platform as owner1 (password: 0wn3r)
2. Go to the view for scheduling a new visit
3. Select as pet 'Pepe', and as vet 'Antonio Sánchez'
4. Select as type 'Invalid type', a type that doesn't exist in the dropdown menu, for example by editing the html form
5. There should be a view that shows a weekly calendar in form of a table with all free slots for the given vet
6. Select a free slot, 2020-08-03 4:00 pm

Result: An exception should be shown.

Summary of scenarios for US4

Scenario	Visit type	Visit type exists?	Result
US4-P1	consultation	Yes	Success
US4-N1	Invalid type	No	Error

User story #5A (Upcoming visits view (pet owner))

[US5A-P1] At least one visit (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1 *and password* 0wn3r*, that owns a pet named* Pepe*; a visit type named* consultation*; a vet named* Antonio Sánchez *that has a consultation scheduled with Pepe for* 2020-09-01 10:00 am*.*

1. Log into the platform as owner1 (password: 0wn3r)
2. Go to the view that shows the upcoming visits

Result: A visit for 2020-09-01 10:00 am should be shown.

[US5A-N1] No visits (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner2 *and password* owner2*, that doesn't have any visits scheduled in the future.*

1. Log into the platform as owner2 (password: owner2)
2. Go to the view that shows the upcoming visits

Result: A message should be shown telling the user that he has no future visits scheduled.

[US5A-N2] Checking that a past visit doesn't show up in the future visits view (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1 *and password* 0wn3r*, that owns a pet named* Pepe*; a visit type named* consultation*; a vet named* Antonio Sánchez *that has a consultation scheduled with Pepe for* 2020-02-03 10:00 am*.*

1. Log into the platform as owner1 (password: 0wn3r)
2. Go to the view that shows the upcoming visits

Result: The visit for 2020-02-03 10:00 should not be shown since it is in the past.

Summary of scenarios for US5A

Scenario	Visits	Visit in the future?	Result
US5A-P1	2020/09/01 10:00 am	Yes	The visit it shown
US5A-N1	None	No	No visit is shown
US5A-N2	2020/02/03 10:00 am	No	The visit is not shown (but other visits that are in the future might be shown

User story #5B (Past visits view (pet owner))

[US5B-P1] At least one visit (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1 *and password* 0wn3r*, that owns a pet named* Pepe*; a visit type named* consultation*; a vet named* Antonio Sánchez *that has a consultation scheduled with Pepe for* 2020-02-03 10:00 am*.*

1. Log into the platform as owner1 (password: 0wn3r)
2. Go to the view that shows the past visits

Result: A visit for 2020-02-03 10:00 am should be shown.

[US5B-N1] No visits (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner2 *and password* owner2*, that doesn't have any visits scheduled in the past.*

1. Log into the platform as owner2 (password: owner2)
2. Go to the view that shows the past visits

Result: A message should be shown telling the user that he has not made any visits in the past.

[US5B-N2] Checking that a future visit doesn't show up in the past visits view (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1 *and password* 0wn3r*, that owns a pet named* Pepe*; a visit type named* consultation*; a vet named* Antonio Sánchez *that has a consultation scheduled with Pepe for* 2020-09-01 10:00 am*.*

1. Log into the platform as owner1 (password: 0wn3r)
2. Go to the view that shows the past visits

Result: The visit for 2020-09-01 10:00 should not be shown since it is in the future.

Summary of scenarios for US5B

Scenario	Visits	Visit in the past?	Result
US5B-P1	2020/02/03 10:00 am	Yes	The visit it shown
US5B-N1	None	No	No visit is shown
US5B-N2	2020/09/01 10:00 am	No	The visit is not shown (but other visits that are in the past might be shown

User story #6 (Upcoming visits view (vet))

[US6-P1] One visit (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1*, that owns a pet named* Pepe*; a visit type named* consultation*; a vet named* Antonio Sánchez, *with username* vet2 *and password* vet2, *that has a consultation scheduled with Pepe for* 2020-09-01 10:00 am*.*

1. Log in as vet2 (password: vet2)
2. Go to the view that shows the upcoming visits for vets

Result: The consultation with Pepe on 2020-09-01 10:00 should be shown.

[US6-N1] No visits (Negative scenario)
Context: It is assumed that the system already has the following data stored: A vet with username vet3 *and password* vet3, *that doesn't have any visits scheduled in the future.*

1. Log in as vet3 (password: vet3)
2. Go to the view that shows the upcoming visits for vets

Result: A message should be shown telling the vet that he has no future visits scheduled.

[US6-N2] Checking that a past visit doesn't show up in the future visits view (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1 *and password* 0wn3r*, that owns a pet named* Pepe*; a visit type named* consultation*; a vet named* Antonio Sánchez *that has a consultation scheduled with Pepe for* 2019-09-01 10:00 am*.*

1. Log into the platform as vet2 (password: vet2)
2. Go to the view that shows the past visits

Result: The visit for 2019-09-01 10:00 should not be shown since it is in the past.

Summary of scenarios for US6

Scenario	Visits	Visit in the future?	Result
US6-P1	2020/09/01 10:00 am	Yes	The visit it shown
US6-N1	None	No	No visit is shown
US6-N2	2019/09/01 10:00 am	No	The visit is not shown (but other visits that are in the future might be shown

User story #7 (Register a payment with credit card or cash)

[US7-P1] Do a payment with cash (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is a secretary, with name secretary1 and password s3cr3tary.

1. Log into the platform as secretary1 (password: s3c3tary)
2. Go to the view with the list of all visits without a payment
3. Select the first one that is the next visit that secretary have to manage
4. Press button of "Do payment"
5. Fill the fields of a payment: 'method'=cash, 'moment'=2020-02-02 10:30, 'finalPrice'=50.00
6. Press button to accept the payment

Result: The data are saves in the database like the payment of that visit. It's pay by cash, so no problem in the system and the owner has to pay the quantity by hand.

[US7-P2] Do a payment with credit card introducing it (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is a secretary, with name secretary1 and password s3cr3tary.

1. Log into the platform as secretary1 (password: s3c3tary)
2. Go to the view with the list of all visits without a payment
3. Select the first one that is the next visit that secretary have to manage
4. Press button of "Do payment"
5. Fill the fields of a payment: 'method'=creditcard, 'moment'=22/02/20 10:30, 'finalPrice'=50.00
6. Press the button "Add credit card" to add a credit card for this payment
7. Fill the fields of a valid credit card: 'holder'=Jean Coleman, 'brand'=visa, 'number'= 4387829024013796, 'expMonth'=05, 'expYear'=22, 'securityCode'=255
8. Press button to accept credit card
9. Press button to accept payment

Result: The data are saves in the database like the payment of that visit. It's pay by credit card so the system saves the data of this credit card too. Data is saving correctly.

[US7-N1] Do a payment with credit card without introducing it (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is a secretary, with name secretary1 and password s3cr3tary.

1. Log into the platform as secretary1 (password: s3c3tary)
2. Go to the view with the list of all visits without a payment
3. Select the first one that is the next visit that secretary have to manage
4. Press button of "Do payment"
5. Fill the fields of a payment: 'method'=creditcard, 'moment'=22/02/20 10:30, 'finalPrice'=50.00
6. Doesn´t add a credit card
7. Press button to accept the payment

Result: The data of this payment hasn't been saved. Secretary can see a message that say "Need a credit card to do a payment with this method".

Summary of scenarios for US7

Scenario	Method	Moment	FinalPrice	CreditCard	Has creditcard?	Result
US7-P1	Cash	22/02/20 10:30	50.00	None	Not introduced	Success
US7-P2	CreditCard	22/02/20 10:30	50.00	'holder'=Jean Coleman, 'brand'=visa, 'number'= 4387829024013796, 'expMonth'=05, 'expYear'=22, 'securityCode'=255	Introduced	Success
US7-N1	CreditCard	22/02/20 10:30	50.00	None	Not introduced	Fail

User story #8 (Validate credit card)

[US8-P1] Do a payment with a valid credit card (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is a secretary, with name secretary1 and password s3cr3tary.

1. Log into the platform as secretary1 (password: s3c3tary)
2. Go to the view with the list of all visits without a payment
3. Select the first one that is the next visit that secretary have to manage
4. Press button of "Do payment"
5. Fill the fields of a payment: 'method'=creditcard, 'moment'=22/02/20 10:30, 'finalPrice'=50.00
6. Press the button "Add credit card" to add a credit card for this payment
7. Fill the fields of a valid credit card: 'holder'=Jean Coleman, 'brand'=visa, 'number'= 4387829024013796, 'expMonth'=05, 'expYear'=22, 'securityCode'=255
8. Press button to accept the credit card

Result: The credit card number is correctly and the expiration too. The data is saved in the database correctly.

[US8-N1] Do a payment with an invalid number of credit card (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is a secretary, with name secretary1 and password s3cr3tary.

1. Log into the platform as secretary1 (password: s3c3tary)
2. Go to the view with the list of all visits without a payment
3. Select the first one that is the next visit that secretary have to manage
4. Press button of "Do payment"
5. Fill the fields of a payment: 'method'=creditcard, 'moment'=22/02/20 10:30, 'finalPrice'=50.00
6. Press the button "Add credit card" to add a credit card for this payment
7. Fill the fields of a valid credit card: 'holder'=Jean Coleman, 'brand'=visa, 'number'= 2200554488996655, 'expMonth'=05, 'expYear'=22, 'securityCode'=255
8. Press button to accept the credit card

Result: The credit card number is not correctly so the system validate this number and shows a message that say "This credit card number is not valid".

[US8-N2] Do a payment with an expiration credit card (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is a secretary, with name secretary1 and password s3cr3tary.

1. Log into the platform as secretary1 (password: s3c3tary)
2. Go to the view with the list of all visits without a payment
3. Select the first one that is the next visit that secretary have to manage
4. Press button of "Do payment"
5. Fill the fields of a payment: 'method'=creditcard, 'moment'=22/02/20 10:30, 'finalPrice'=50.00
6. Press the button "Add credit card" to add a credit card for this payment
7. Fill the fields of a valid credit card: 'holder'=Jean Coleman, 'brand'=visa, 'number'= 4387829024013796, 'expMonth'=05, 'expYear'=15, 'securityCode'=255
8. Press button to accept the credit card

Result: The credit card expiration is not correctly so the system validate this number and shows a message that say "This credit card expiration passed".

Summary of scenarios for US8

Scenario	Payment method	Holder	Brand	Number	expMonth	expYear	code	Result
US8-P1	CreditCard	Jean Coleman	Visa	4387829024013796	05	22	255	Success
US8-N1	CreditCard	Jean Coleman	Visa	2200554488996655	05	22	255	Fail
US8-N2	CreditCard	Jean Coleman	Visa	4387829024013796	05	15	255	Fail

User story #9 (Store who registered a payment)

[US9-P1] Do a payment with the secretary role (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is a secretary, with name secretary1 and password s3cr3tary.

1. Log into the platform as secretary1 (password: s3c3tary)
2. Go to the view with the list of all visits without a payment
3. Select the first one that is the next visit that secretary have to manage
4. Press button of "Do payment"
5. Fill the fields of a payment: 'method'=creditcard, 'moment'=22/02/20 10:30, 'finalPrice'=50.00
6. Press the button "Add credit card" to add a credit card for this payment
7. Fill the fields of a valid credit card: 'holder'=Jean Coleman, 'brand'=visa, 'number'= 4387829024013796, 'expMonth'=05/22
8. Press button to accept credit card
9. Press button to accept payment

Result: This payment is made by the user "secretary1". The system knows that this user has a role of Secretary of the system. So this person can do the payment correctly.

[US9-N1] Do a payment with the owner role (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1 and password 0wn3r.

1. Log into the platform as owner1 (password: 0wn3r)
2. Attend to access the URL of the unpaid visits view for secretary without being logged in as an owner

Result: This payment was going to be performed by the user "owner1". The system knows that this user has a role of Owner of the system. So an error is appeared.

[US9-N2] Do a payment with the vet role (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is a vet, with name vet2 and password vet2.

1. Log into the platform as vet2 (password: vet2)
2. Attend to access the URL of the unpaid visits view for secretary without being logged in as an owner

Result: This payment was going to be performed by the user "vet2". The system knows that this user has a role of Vet of the system. So an error is appeared.

Summary of scenarios for US9

Scenario	User	Is the user authorized?	Result
US9-P1	Secretary1	Yes	The view it shown
US9-N1	Owner1	No	Error message
US9-N2	Vet2	No	Error message

User story #10 (Suggest price for a visit based on its type)

[US10-P1] Suggest the visit price consider in her type (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is a secretary, with name secretary1 and password s3cr3tary and that exists a VisitType that is consultation (20€, 30 min).The visit that secretary select is consultation type.

1. Log into the platform as secretary1 (password: s3c3tary)
2. Go to the view with the list of all visits without a payment
3. Select a visit that secretary have to manage. It's consultation type
4. Press button of "Do payment"
5. The fields of a payment are blank, exception of 'finalPrice'=20.00 because 20.00€ is the estimate price for this visit type

Result: Secretary can see the estimate price in the field of quantity. It's the price that has that visit type.

[US10-N1] Suggest the visit price consider in an invalid quantity (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is a secretary, with name secretary1 and password s3cr3tary and that exists a VisitType that is free (0€, 30 min). The visit that secretary select is free type.

1. Log into the platform as secretary1 (password: s3c3tary)
2. Go to the view with the list of all visits without a payment
3. Select a visit that secretary have to manage. It's free type
4. Press button of "Do payment"
5. The fields of a payment are blank, exception of 'finalPrice'=0.00 because 0.00€ is the estimate price for this visit type

Result: A payment can't have the final price of 0€. All payments have to have a price greater than 0. So when the secretary does a payment has an error because the price is 0 or less.

Summary of scenarios for US10

Scenario	VisitType	Visit price	Payment finalPrice	Result
US10-P1	Consultation	20.00	20.00	Success
US10-N1	Free	0.00	0.00	Fail

User story #11 (Freely assign price to a visit)

[US11-P1] Change the suggest of the visit final price with a valid value (Positive scenario)

Context: It is assumed that the system already has the following data stored: A user that is a secretary, with name secretary1 and password s3cr3tary and that exists a VisitType that is consultation (20€, 30 min). The visit that secretary select is consultation type.

1. Log into the platform as secretary1 (password: s3c3tary)
2. Go to the view with the list of all visits without a payment
3. Select a visit that secretary have to manage. It's consultation type
4. Press button of "Do payment"
5. The fields of a payment are blank, exception of 'finalPrice'=20.00 because 20.00€ is the estimate price for this visit type
6. Secretary change this field 'finalPrice'=70.00
10. Secretary fills the others fields: 'method'=cash, 'moment'=22/02/20 10:30
11. Press button to accept the payment

Result: Secretary can change the quantity. The price of a visit type is only approximate but then secretary calculates the real price. This data saves in the database correctly.

[US11-N1] Change the suggest of the visit final price with an invalid value (Negative scenario)

Context: It is assumed that the system already has the following data stored: A user that is a secretary, with name secretary1 and password s3cr3tary and that exists a VisitType that is consultation (20€, 30 min). The visit that secretary select is consultation type.

1. Log into the platform as secretary1 (password: s3c3tary)
2. Go to the view with the list of all visits without a payment
3. Select a visit that secretary have to manage. It's consultation type
4. Press button of "Do payment"
5. The fields of a payment are blank, exception of 'finalPrice'=20.00 because 20.00€ is the estimate price for this visit type
6. Secretary change this field 'finalPrice=setentaeuros
7. Secretary fills the others fields: 'method'=cash, 'moment'=22/02/20 10:30
8. Press button to accept the payment

Result: An error is appeared in the form of the payment, because secretary adds a quantity that is a string. Quantity has to do a integer.

Summary of scenarios for US11

Scenario	VisitType	Visit price	Payment finalPrice suggested	Payment finalPrice	Result
US11-P1	Consultation	20.00	20.00	70.00	Success
US11-N1	Consultation	20.00	20.00	setentaeuros	Fail

User story #12 (View all unpaid visits)

[US12-P1] See the list of unpaid visits with the secretary role (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is a secretary, with name secretary1 and password s3cr3tary.

1. Log into the platform as secretary1 (password: s3c3tary)
2. Go to the view with the list of all visits without a payment
3. If you select one of that can see the button to pay it

Result: In this view a secretary can see all visits without a payment. Can select one and do her payment. Only a user with the Secretary role can see this view.

[US12-N1] See the list of unpaid visits with the owner role (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is an owner, with name owner1 and password 0wn3r.

1. Log into the platform as owner1 (password: 0wn3r)
2. Attend to access the URL of the unpaid visits view for secretary without being logged in as an owner

Result: Only a user with the Secretary role can see this view. So an owner can't see this view with the list of all visits without a payment.

[US12-N2] See the list of unpaid visits with the vet role (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is a vet, with name vet2 and password vet2.

1. Log into the platform as vet2 (password: vet2)
2. Attend to access the URL of the unpaid visits view for secretary without being logged in as a vet

Result: Only a user with the Secretary role can see this view. So a vet can't see this view with the list of all visits without a payment.

Summary of scenarios for US12

Scenario	User	Is the user authorized?	Result
US9-P1	Secretary1	Yes	The view it shown
US9-N1	Owner1	No	Error message
US9-N2	Vet2	No	Error message

User story #13 (Add diagnosis to a visit)

US13-P1 Adding a diagnosis with correct attributes to a visit (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is a vet, with name vet2 *and password* vet2*; a visit that doesn't have diagnosis.*

1. Log into the platform as vet2 (password: vet2)
2. Go to the view for adding a diagnosis to the visit
3. Introduce as description 'Sample description' and confirm the addition

Result: The newly added diagnosis should be shown on the visit

US13-N1 Adding a diagnosis with incorrect attributes to a visit (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is a vet, with name vet2 *and password* vet*; a visit that doesn't have diagnosis.*

1. Log into the platform as vet2 (password: vet2)
2. Go to the view for adding a diagnosis to the visit
3. Leave the description empty
4. Attempt to confirm the addition

Result: It should not be possible to add the diagnosis to the visit.

US13-N2 Adding a correct diagnosis to a visit already diagnoses (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is a vet, with name vet2 *and password* vet2 *and the visit is already diagnosed.*

1. Log into the platform as vet2 (password: vet2)
2. Go to the view for the visit
3. Attempt to add a diagnosis

Result: It should not be possible to add the diagnosis to the visit.

Summary of scenarios for US13

Scenario	Is the visit diagnosed?	Description	Result
US13-P1	No	Sample description	Success
US13-N1	No		Fail
US13-N2	Yes	n/a	Fail

User story #14 (Add prescription to a diagnosis)

US14-P1 Adding prescription with correct attributes to a diagnosis (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is a vet, with name vet2 *and password* vet2; *a visit that is already diagnosed and that exists a medicine that is Betadine.*

1. Log into the platform as vet2 (password: vet2)
2. Go to the view for adding a diagnosis to the visit
3. Introduce in the section 'Prescription' as frequency 'Twice a day', as duration 'Two weeks', as medicine 'Betadine' and confirm the addition

Result: The newly added prescription and medicine should be shown on the diagnosis

US14-N1 Adding prescription with incorrect attributes to a diagnosis (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is a vet, with name vet2 *and password* vet2; *a visit that is already diagnosed and that exists a medicine that is Betadine.*

1. Log into the platform as vet2 (password: vet2)
2. Go to the view for adding a diagnosis to the visit
3. Introduce in the section 'Prescription' as frequency 'Twice a day', leave the duration empty, as medicine 'Betadine' and confirm the addition
4. Attempt to confirm the addition

Result: It should not be possible to add the prescription to the diagnosis

Summary of scenarios for US14

Scenario	Frequency	Duration	Medicine	Result
US14-P1	Twice a day	Two weeks	Betadine	Success
US14-N1	Twice a day		Betadine	Fail

User story #15 (Select medicine from database)

US15-P1 Select existing medicine (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is a vet, with name vet2 *and password* vet2; *a visit that is already diagnosed and that exists a medicine that is Betadine.*

1. Log into the platform as vet2 (password: vet2)
2. Go to the view for adding a diagnosis to the visit
3. Introduce in the section 'Prescription' as frequency 'Twice a day', as duration 'Two weeks', as medicine select 'Betadine' and confirm the addition

Result: The newly added prescription and medicine should be shown on the diagnosis

US15-N1 Select invented medicine (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is a vet, with name vet2 *and password* vet2; *a visit that is already diagnosed. No medicine named* Hacking *should exist in the system.*

1. Log into the platform as vet2 (password: vet2)
2. Go to the view for adding a diagnosis to the visit
3. Introduce in the section 'Prescription' as frequency 'Twice a day', as duration 'Two weeks', as medicine select 'Hacking', for example by editing the html manually and confirm

Result: An exception should be shown

Summary of scenarios for US15

Scenario	Frequency	Duration	Medicine	Does the medicine exist in the database?	Result
US15-P1	Twice a day	Two weeks	Betadine	Yes	Success
US15-N1	Twice a day	Two weeks	Hacking	No	Fail

User story #16 (Add new medicine the system)

US16-P1 (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is an admin, with name admin1 *and password* 4dm1n. The drug 'Sample drug' doesn't exist.

1. Log into the platform as admin1 (password: 4dm1n)
2. Go to the view for adding a new medicine
3. Introduce as name 'Sample drug' and as brand 'Sample brand' and confirm the creation

Result: The newly created medicine should show up in the list of all medicines

US16-N1 (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is an admin, with name admin1 *and password* 4dm1n. The drug 'Sample drug' doesn't exist.

1. Log into the platform as admin1 (password: 4dm1n)
2. Go to the view for adding a new medicine
3. Introduce as name 'Sample drug' and leave the brand empty
4. Attempt to confirm the creation

Result: It should not be possible to create the new medicine

Summary of scenarios for US16

Scenario	User	Name	Brand	Result
US16-P1	admin1	Sample drug	Sample brand	Success
US16-N1	admin1	Sample drug		Fail

User story #17 (Edit or delete the medicines in the system)

US17-P1 (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is an admin, with name admin1 *and password* 4dm1n. The drug 'Sample drug' exist.

1. Log into the platform as admin1 (password: 4dm1n)
2. Go to the view that lists medicine
3. Select the medicine named 'Unused drug'
4. Delete the medicine named 'Unused drug'

Result: The medicine should be correctly deleted from the system

US17-N1 (Negative scenario)
Context: It is assumed that the system already has the following data stored: A user that is an admin, with name admin1 *and password* 4dm1n *and a medicine with name* Betadine *exists in the system and that it has been prescribed at least once.*

1. Log into the platform as admin1 (password: 4dm1n)
2. Go to the view that lists medicine
3. Select the medicine named 'Betadine'
4. Attempt to delete the medicine named 'Betadine'

Result: An error should be thrown as this medicine has already been prescribed.

Summary of scenarios for US17

Scenario	User	Name	Is the medicine prescribed at least once?	Result
US17-P1	admin1	Unused drug	No	Success
US17-N1	admin1	Betadine	Yes	Fail

User story #18 (View revenue by month)

US18-P1 View revenue in dashboard with correct authority (Positive scenario)
Context: It is assumed that the system already has the following data stored: A user that is an admin, with name admin1 *and password* 4dm1n.

1. Log into the platform as admin1 (password: 4dm1n)
2. Go to the view in dashboard for seeing the revenue by month

Result: The view that shows the total revenue (sum of all payments) by month is displayed.

US18-N1 View revenue in dashboard with incorrect authority (Negative scenario)
Context: It is assumed that the user that tries to access is not authenticated.

1. Attempt to access the URL of the view revenue by month without being logged in as an admin

Result: An error message should be shown

Summary of scenarios for US18

Scenario	User	Is the user authorized?	Result
US18-P1	admin1	Yes	The view it shown
US18-N1	None (unauthenticated)	No	Error message

User story #19 (See all the characteristics of visits already made)

[US19-P1] Show list of all visits (Positive scenario)
Context: It is assumed that the system already has the following data stored: An admin with name admin1 *and password* 4dm1n.

1. Log into the platform as admin1 (password: 4dm1n)
2. Go to the view in dashboard for seeing all the visits already made

Result: The view that shows all the visits already made that includes the features of that visits and a link for their diagnosis and payment is displayed

[US19-N1] Attempt to show the list of all visits without authorization (Negative scenario)
Context: It is assumed that the user that tries to access is not authenticated.
Attempt to access the URL of the view in dashboard for seeing all the visits already made without being logged in as an admin
Result: An error message should be shown

Summary of scenarios for US19

Scenario	User	Is the user authorized?	Result
US19-P1	admin1	Yes	The view it shown
US19-N1	None (unauthenticated)	No	Error message

User story #20 (Add new types of visit)

US20-P1 Adding a new type of visit with correct attributes (Positive scenario)
Context: It is assumed that the system already has the following data stored: An admin with name admin1 *and password* 4dm1n. The type of visit 'Sample visit type' doesn't exist.

1. Log into the platform as admin1 (password: 4dm1n)
2. Go to the view for adding a new type of visit
3. Introduce as name 'Sample visit type', as duration '1', as price '1' and confirm the creation

Result: The newly created visit type should show up in the list of all visit types

US20-N1 Adding a new type of visit with fails in the formulary (Negative scenario)
Context: It is assumed that the system already has the following data stored: An admin with name admin1 *and password* 4dm1n. The type of visit 'Sample visit type' doesn't exist.

1. Log into the platform as admin1 (password: 4dm1n)
2. Go to the view for adding a new type of visit
3. Introduce as name 'Sample visit type', as duration '1' and leave the price empty
4. Attempt to confirm the creation

Result: It should not be possible to create the new visit type.

Summary of scenarios for US20

Scenario	User	Name	Duration	Price	Result
US20-P1	admin1	Sample visit type	1	1	Success
US20-N1	admin1	Sample visit type	1		Fail

User story #21 (Edit types of visit)

US21- P1 Edit type of visit with allowed values in correct attributes (Positive scenario)
Context: It is assumed that the system already has the following data stored: An admin with name admin1 *and password* 4dm1n; visit type named 'Unused visit type' exists.

1. Log into the platform as admin1 (password: 4dm1n)
2. Go to the view that lists visit type
3. Select and edit the visit type named 'Unused visit type'
4. Introduce as price '2' and confirm the edition

Result: The visit type should be correctly edited

US21-N1 Edit type of visit changing prohibited attributes (Negative scenario)
Context: It is assumed that the system already has the following data stored: An admin with name admin1 *and password* 4dm1n; visit type named 'Unused visit type' exists.

1. Log into the platform as admin1 (password: 4dm1n)
2. Go to the view that lists visit type
3. Select and edit the visit type named 'Unused visit type'
4. Introduce as duration '2' and confirm the edition

Result: It should not be possible to edit the visit type

Summary of scenarios for US21

Scenario	User	Visit type	Old duration	New duration	Old price	New price	Result
US20-P1	admin1	Unused visit type	1	1	1	2	Success
US20-N1	admin1	Unused visit type	1	2	1	1	Fail

2.- PLANNING FOR THE FOLLOWING SPRINTS

SEMANA	PROPIETARIO	TRABAJO
2 marzo – 8 marzo	Miguel	Hacer correcciones proyecto base (Implementar cambio user → Person, Cambiar muchos Owner por 1), Implementar US1, US2 y US4
	Claudia	Implementar US7, US8 y US9
	Josema	Implementar US13, US14 y US15
9 marzo – 15 marzo	Miguel	Implementar US3, US5A, US5B
	Claudia	Implementar US10, US11 y US12
	Josema	Implementar US16 y US17
16 marzo – 22 marzo	Miguel	Pruebas unitarias para correcciones, US1 – US5B
	Claudia	Pruebas unitarias para US7 – US12
	Josema	Pruebas unitarias para US13 – US17
23 marzo – 29 marzo	Miguel	Automatización de pruebas con Travis
	Claudia	
	Josema	
ENTREGA SPRINT 2		
30 marzo – 5 abril	Miguel	Implementar US6
	Claudia	Implementar US18
	Josema	Implementar US20 y US21
6 abril – 12 abril	Miguel	Pruebas unitarias para US6
	Claudia	Pruebas unitarias para US18
	Josema	Pruebas unitarias para US20 y US21
13 abril – 19 abril	Miguel	Pruebas de integración
	Claudia	
	Josema	
20 abril – 26 abril	Miguel	Pruebas de integración
	Claudia	
	Josema	
27 abril – 3 mayo	Miguel	Pruebas de interfaz de usuario (de lo implementado hasta el momento)
	Claudia	
	Josema	
4 mayo – 10 mayo	Miguel	Pruebas de interfaz de usuario (de lo implementado hasta el momento)
	Claudia	
	Josema	
ENTREGA SPRINT 3		
11 mayo – 17 mayo	Miguel	Implementar US19 Pruebas unitarias para US19
	Claudia	Corregir error Vet → Owner Pruebas unitarias para ello
	Josema	Inicio sin loguear Estética de la página Pruebas unitarias para ello
18 mayo – 24 mayo	Miguel	Pruebas de integración (si procede) Pruebas de interfaz de usuario (las restantes)
	Claudia	
	Josema	
25 mayo – 31 mayo	Miguel	Pruebas end-to-end en los contoladores
	Claudia	
	Josema	
1 junio –	Miguel	

5 junio	Claudia Josema	Pruebas de rendimiento y refactorizaciones
ENTREGA SPRINT 4		