DP1 2020-2021

Requirements Document and System Analysis

Standby Project

https://github.com/gii-is-DP1/dp1-2020-gi-04

# Group members <alphabetic order by surname>:

* Bogdan, George Laurentiu
* Diz Gil, Guillermo
* Muñoz Pérez, Carmen María
* Rodríguez Pérez, Francisco

Professor: José María García

# GROUP GI-04

## Version 1

Friday 30th October 2020

## Changelog

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Version | Description | Sprint |
| 30/10/2020 | V1 | Document creation | 1 |
| 08/11/2020 | V2 | First sprint completed | 1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# General project description

The short films are the first productions that are usually made by those who want to dedicate themselves to the world of cinema, but at the same time they are ignored in the cultural field within the film industry. The best-known short films are those that win very important awards or are created by very important companies such as Disney. But what about that majority that does not win awards? They always fall into oblivion. Despite all this, almost all the great filmmakers of our time have started making short films and these have been vital in their rise to fame. Thus, the Standby project was born out of the need of both amateur and professional filmmakers who want to make themselves known and make their way in the world of cinema through short films, as well as the need to promote and disseminate the importance of short films within the industry.

For all these reasons, this project aims to provide an application that brings together short films from around the world, as well as serving as a stimulus for those who want to join the film industry. Standby will be an application that will allow filmmakers to share their short films. Thus, users will be able to watch, comment and evaluate these short films. In addition, companies will be able to filter them and access additional information that will allow them to contact the filmmakers for possible hiring.

# User types / roles

***Unregistered user:*** *users that visits our page without registering.*

***User:*** *users interested in watching, reviewing and commenting them.*

***Filmmaker:*** *content creators, they can upload short films and tag people in their projects or be tagged with a specific role.*

***Company:*** *companies looking for filmmakers to hire.*

# User stories

**H1 - Register account as a user**

**As an** unregistered user, **I want the system** to allow me to create a user account, **so that** I can enjoy all the functionality of a registered user.

**H1+E1 –** **User registration**

**Since** we are not authenticated in the system **when** we press the button “Register as a user” to go to register **once** we enter the obligatory fields which are name “GuilleX7”, full name “Guillermo Diz Gil”, email “guillermox7@gmail.com” and a password “NbcxhPjBcjTxbYdCxbPdnExb” **after** pressing the button “Register” to finish this registration **then** we will have created my user and can have all the privileges that this entails.

**H1-E1 – User registration only with the name field**

**Since** we are not authenticated in the system **when** we press the button “Register as a user” to go to register **once** we enter only our name “Anageo183” **after** pressing the button “Register” to finish this registration **then** the application shows us the edition form again and tells us “Error: all the fields are mandatory and cannot be empty”.

**H2 - Register account as a company**

**As a** company, **I want the system** to allow me to create a company account, **so that** I can enjoy all the functionality of a registered company.

**H2+E1 –** **Company registration**

**Since** we are not authenticated in the system **when** we press the button “Register as a company” to go to register **once** we enter the mandatory fields which are name “hollymollystudios”, email “hollymolly@studios.com”, password “ShidnVoHioZdhEjIdhVjsKdh”, tax ID number “0760345958”, the name of the company “Holly Molly Studios”, business phone “+40 0731264578” and office address “Bulevardul Tomis 314, Constanța 900860, Rumanía” **after** pressing the button to finish this registration **then** we will have created my user and can have all the privileges that this entails.

**H2-E1 – Company registration only with the email field**

**Since** we are not authenticated in the system **when** we press the button “Register as a company” to go to register **once** we enter only our email “hollymolly@studios.com” **after** pressing the button “Register” to finish this registration **then** the application shows us the edition form again and tells us “Error: all the fields are mandatory and cannot be empty”.

**H3 – User login**

**As a** user or company, **I want the system** to allow me to log in the system, **so that** I can make use of my account.

**H3+E1 –** **User/Company login**

**Since** we are unauthenticated in the system **when** we press the button “Login” to go to the application login **once** we enter our username “GuilleX7” and password “NbcxhPjBcjTxbYdCxbPdnExb” **after** pressing the button “Login” to finish the authentication **then** we are redirected to the feed page and our account information shows up in the header.

**H3-E1 – User/Company login only with the username field**

**Since** we are unauthenticated in the system **when** we press the button “Login” to go to the application login **once** we enter our username “Hollymolley” **after** pressing the button “Login” to finish the authentication **then** the application tells us “Error: all the fields are mandatory and cannot be empty”.

**H4 – Account deletion**

**As a** user or company, **I want the system** to allow me to delete my account and all the information related with me, **so that** I can preserve my privacy.

**H4+E1 –** **User/Company account deletion**

**Since** we are authenticated in the system as the user “GuilleX7” **when** we go to our account settings in the header, then we go to the account management section, and then we go to the “Delete my account” button **once** we press that button and we input our password twice for security **after** validating the data we have inputted **then** all the account data will be wiped out from the system, it will log us out and tell us “All your information has been removed from the system”.

**H5 - Upload short films**

**As a** filmmaker, **I want the system** to allow me to upload short films, **so that** anyone can see them.

**H5+E1 –** **Upload short films**

**Since** we are authenticated in the system as the user “GuilleX7” **when** we input the name of the short film “” **once** we indicate the name of the short film its duration and the roles of the people who have participated in it **after** pressing accept to finish the operation **then** the short film will have been successfully uploaded to our account.

**H5-E1 – Upload short films only with the name of the short film field**

**Since** we are authenticated in the system as filmmaker1 **when** I select the short film we want to upload **once** we indicate the name of the short film **after** pressing accept to finish the operation **then** the application shows us the editing form again and indicates that both the name of the short film and the duration fields are mandatory and that we have to added at least one role.

**H6 - View short films**

**As a** user or unregistered user, **I want the system** to allow me to view short films and all the tags the short film is associated to, **so that** I can enjoy the content and have an idea of what I am watching.

**H6+E1 –** **Viewing a short film without being registered**

**Since** we are not authenticated in the system **when** we choose a user profile with short films uploaded **once** we select the short film we want to play **after** pressing the play button **then** the application plays the selected short film.

**H7 – Manage users involved in a short film**

**As a** filmmaker, **I want the system** to allow me to manage the users involved in a short film and their respective roles **to** give them credit.

**H7+E1 –** **Upload short films adding roles**

**Since** we are authenticated in the system as filmmaker1 **when** we select the short film we want to upload **once** we indicate the name of the short film its duration and the roles of the people who have participated in it **after** pressing accept to finish the operation **then** the short film will have been successfully uploaded to our account.

**H7+E2 –** **Adding roles to an uploaded short film**

**Since** we are authenticated in the system as filmmaker1 **when** I select the short film we want to edit **once** we indicate the roles that we want to add **after** pressing accept to finish the operation **then** the short film will have been successfully updated to our account.

**H8 - Comment and evaluate short films**

**As a** user, **I want the system** to allow me to comment and evaluate the short films, **so that** I can share my opinion the short film.

**H8+E1 – Add a comment being registered**

**Since** we are authenticated in the system as filmmaker1 **when** we choose a user profile with short films uploaded **once** we select the short film we want to comment on **after** trying to add a new comment **then** the comment will appear with the rest of the comments of the short film.

**H8+E2 – Add a score being registered**

**Since** we are authenticated in the system as filmmaker1 **when** we choose a user profile with short films uploaded **once** we select the short film we want to score **after** trying to add the score **then** the score will be added to the rest of the short film's score.

**H8-E1 – Add a comment without being registered**

**Since** we are not authenticated in the system **when** we choose a user profile with short films uploaded **once** we select the short film we want to comment on **after** trying to add a new comment **then** the application will not allow the user to add that comment and a message will appear telling the user the need to register to perform that action.

**H8-E2 – Add a score without being registered**

**Since** we are not authenticated in the system **when** we choose a user profile with short films uploaded **once** we select the short film we want to score **after** trying to add the score **then** the application will not allow the user to add that score and a message will appear telling the user the need to register to perform that action.

**H9 – Tag short films**

**As a** filmmaker, **I want the system** to allow me to assign multiple tags to a short film, **so that** I can categorize its content.

**H9+E1 – Tag short films with different and unique tags**

**Since** we are tagging our short film **when** we are writing that tags related to the short film **once** we have finished to write all the tags **then** we will have post our tags on the short film so all the other user can find our short film filtering by those tags.

**H9-E1 – Tag short films with different and unique tags**

**Since** we are tagging our short film **when** we are writing that tags related to the short film **once** we have finished to write all the tags and there are repeated tags **then** the system will notify us that duplicated tags are not allowed and will recommend us to revise the tags.

**H10 - Request personal data of a filmmaker with private information**

**As a** company, **I would like the system** to allow me to request the personal data of a filmmaker with private information, **so that** I can contact him or her for possible employment.

**H10+E1 –** **Request personal data as a company**

**Since** we are a registered company, **when** I send a request to a filmmaker **once** I press the request button in the filmmakers’ profile, **after** the request is sent **then** the filmmaker can accept or deny my request, if it is accepted the information should be now available to me.

**H10-E1 – Request personal data as a user**

**Since** we are a registered user **when** I send a request to a filmmaker **once** I press the request button in the filmmakers’ profile **after** the button is disabled **then** the page must deny my request because I am not a company

**H11 - Search short films and users by filters**

**As** a user or unregistered user, **I want** to be able to look for short films by a certain title, that contain a certain tag or tags, by trending (best reviewed or most commented), by upload date, by duration, or users by his name, **so that I am** able to look for the content I am interested in.

**H11+E1 – Filtering short films by title**

**Since** we are a user named “GuilleX7” **when** we want to see a short film xxxx **once** we put his account his account name in the browser **after** entering his/her profile and clicking in “short films” **then** the systems will lead us to all the short films in which this filmmaker has taken part in.

**H11-E1 – Filtering short films by a filmmaker that does not exist in the system**

**Since** we are a user (registered or not) **when** we want to see a short film of a certain filmmaker **once** we put his account his account name in the browser **then** the systems will show us that the filmmaker we are looking for it is not registered in the system.

**H12 – View filmmaker’s profile**

**As a** registered or unregistered user, **I want the system** to display the profile of a given filmmaker, showing his username, profile picture and all the short films that the filmmaker has uploaded or has appeared in **in order to** view information about a filmmaker.

**H12+E1 –** **List films as a filmmaker**

**Since** we are a filmmaker, **when** we go to our profile **once** we press the profile button, **after** we enter the short films section **then** the system shall list every short film where we have participated in and our role in there.

**H12-E1 – List films as a company**

**Since** we are a company, **when** we go to our profile **once** we press the profile button, **after** we enter the short films section **then** the system shall give us an error because we are not able to display the short films we have participated in.

**H13 – Edit short film information**

**As a** filmmaker **I want the system** to allow me to edit all the information related to a short film **to** keep the short film information up to date.

**H13+E1 – Disassociate from a film with a role**

**Since** we are a filmmaker, **when** we want to be disassociated from a short film **once** we press the disassociate our role in the short film, **after** the request is completed **then** the role must disappear from the system and all the relationship between we and the short film must be deleted.

**H13-E1 – Disassociate from a film without a role**

**Since** we are a filmmaker, **when** we want to be disassociated from a short film **once** we press the disassociate our role in the short film, **after** the request is completed **then** the system shall give us an error because we don’t have an active role in that short film.

**H14 – Save short film as favourite**

**As** a user, **I want** to be able to save my favourites short films, **so that** I cansee I can access them easily.

**H14+E1 –** **Register my favourite short film as a registered user**

**Since** I am a registered user **when** I want to save a short film **once** I choose the short film I want to save **after** pressing the save button **then** the short film will be saved in my favourites tab.

**H14-E1 – Register my favourite short film as an unregistered user**

**Since** I am an unregistered user **when** I want to save a short film **once** I choose the short film I want to save **after** pressing the save button **then** the application will give us an error saying that we must register.

**H15 – List all favourite short films**

**As** a user, **I want** to be able to save my favourites short films, **so that** I cansee I can access them easily.

**H15+E1 –** **Register my favourite short film as a registered user**

**Since** I am a registered user **when** I want to save a short film **once** I choose the short film I want to save **after** pressing the save button **then** the short film will be saved in my favourites tab.

**H15-E1 – Register my favourite short film as an unregistered user**

**Since** I am an unregistered user **when** I want to save a short film **once** I choose the short film I want to save **after** pressing the save button **then** the application will give us an error saying that we must register.

**H16 - Subscription to filmmaker**

**As** a user, **I want** to be able to subscribe to a filmmaker, **so that** I cansee his/her newest activity.

**H16+E1 –** **Subscribe to a filmmaker as a registered user**

**Since** we are a registered user **when** I want to follow the activity of a filmmaker **once** I chose the filmmaker we want to follow **after** pressing the follow button in the filmmakers’ profile **then** we will be following him and the new activities will appear in our feed.

**H16-E1 – Subscribe to a filmmaker as an unregistered user**

**Since** we are an unregistered user **when** I want to follow the activity of a filmmaker **once** I chose the filmmaker we want to follow **after** pressing the follow button in the filmmakers’ profile **then** the application will give us an error saying that we must register.

**H17 – Receive notifications**

**As a** user, **I want** to be able to receive notifications for subscription to our profiles, likes or comments posted in our short films or for received privacy requests, and if we are a company, for accepted private requests, **so that** I canbe up to date with the latest activity.

**H17+E1 –** **A filmmaker I am subscribed to uploads a new short film**

**Since** we are subscribed to a filmmaker **when** the filmmaker uploads a new short film **then** a new notification will appear in the notification bell.

**H17-E1 – A filmmaker I am not subscribed to uploads a new short film**

**Since** we are not subscribed to a filmmaker **when** a filmmaker uploads a new short film **then** we should not have any new notification.

**H18 - Manage notifications**

**As a** user, **I want** to be able to choose which types of activities I want to be notified of, **so that** I candecide which type of activity I care about.

**H18+E1 –** **Select to be notified only by messages**

**Since** we are a registered user **when** I want to filter the notifications that I want to receive **once** I choose only the message **after** pressing the configuration button **then** the application will only notify us of messages

**H18-E1 – Manage notifications as unregistered user**

**Since** we are an unregistered user **when** I want to filter the notifications that I want to receive **then** the application will not show the configuration button

**H19 – Edit account information**

**As a** user, **I want** to be able to modify the data of my account, **so that** I can keep the information up to date.

**H19+E1 –** **Select to be notified only by messages**

**Since** we are a registered user **when** I want to filter the notifications that I want to receive **once** I choose only the message **after** pressing the configuration button **then** the application will only notify us of messages

**H19-E1 – Manage notifications as unregistered user**

**Since** we are an unregistered user **when** I want to filter the notifications that I want to receive **then** the application will not show the configuration button

**H20 – Show feed at landpage**

**As a** register or unregistered user, **I want** to see either my feed If I am registered or random short films if I am not registered, **so that** I can be up to date with the latest activity.

**H20+E1 –** **Select to be notified only by messages**

**Since** we are a registered user **when** I want to filter the notifications that I want to receive **once** I choose only the message **after** pressing the configuration button **then** the application will only notify us of messages

**H20-E1 – Manage notifications as unregistered user**

**Since** we are an unregistered user **when** I want to filter the notifications that I want to receive **then** the application will not show the configuration button

# Data model

# Business rules

**R1 – Subscription to oneself**

An account cannot be subscribed to himself. We allow to subscribe to other users so people can stay tuned with their latest news, but it makes no sense to subscribe to oneself.

**R2 – Multiple subscriptions**

An account cannot be subscribed more than once to the same user. A subscription allows you to receive notifications of the activity of a given user, but when you are already subscribed the only option you may have is to unsubscribe.

**R3 – Multiple short film ratings**

An account cannot write more than one rating for the same short film, because a rating is the conclusion you got from the short film. However, you are still allowed to change it whenever you want.

**R4 – Multiple privacy requests**

A company cannot send more than one privacy request to the same filmmaker. If there is an active privacy request, companies only have the option to desist from the request while they wait for the user to accept or decline it.

**R5 – Privacy requests requirements**

A company can only send privacy requests to users who have private additional information, because otherwise user’s personal data will be public for all companies.

**R6 – Same tag**

A short film cannot have the same tag more than once, as a tag is a word or short phrase that gives information about the short film. Duplicating the tag does not give us more information.

**R7 – Subscription notifications**

An account can only be notified for users that it is subscribed to. This guarantees that a given user will not be bothered with notifications he does not care about.

# Planning

|  |  |  |  |
| --- | --- | --- | --- |
| ***Type*** | ***Element*** | ***Assignment*** | ***Sprint*** |
| *Document* | *General description* | *Guillermo Diz*  *Carmen María Muñoz*  *Francisco Rodríguez*  *George Laurentiu Bogdan* | *1* |
| *Document* | *User stories* | *Guillermo Diz*  *Carmen María Muñoz*  *Francisco Rodríguez*  *George Laurentiu Bogdan* | *1* |
| *Data model* | *Class diagram* | *Guillermo Diz*  *Carmen María Muñoz*  *Francisco Rodríguez*  *George Laurentiu Bogdan* | *1* |
| *Data model* | *Business rules* | *Guillermo Diz*  *George Laurentiu Bogdan* | *1* |
| *Document* | *Use cases* | *Carmen María Muñoz*  *Francisco Rodríguez*  *George Laurentiu Bogdan* | *1* |
| *Backend* | *Environment set-up* | *Guillermo Diz* | *1* |
| *Frontend* | *Environment set-up* | *George Laurentiu Bogdan* | *1* |
| *Backend - entity* | *ShortFilm* | *Guillermo Diz George Laurentiu Bogdan* | *1* |
| *Document* | *Reviewing* | *Guillermo Diz George Laurentiu Bogdan Carmen María Muñoz Francisco Rodríguez* | *2* |
| *Document* | *User cases* | *Carmen María Muñoz Francisco Rodríguez* | *2* |
| *Mockup* | *H1 to H20* | *Guillermo Diz George Laurentiu Bogdan* | *2* |
| *Backend* | *Security* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Backend* | *Account* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Backend* | *User* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Backend* | *ShortFilm* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Backend* | *Tag* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Backend* | *Role* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Backend* | *Comment* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Backend* | *Rating* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Backend* | *Notification* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Backend* | *PrivacyRequest* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Frontend* | *Security* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Backend* | *User story H1* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Backend* | *Unit test H1* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Frontend* | *View H1* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Backend* | *User story H2* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Backend* | *Unit test H2* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Frontend* | *View H2* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Backend* | *User story H3* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Backend* | *Unit test H3* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Frontend* | *View H3* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Backend* | *User story H4* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Backend* | *Unit test H4* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Frontend* | *View H4* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Backend* | *User story H5* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Backend* | *Unit test H5* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Frontend* | *View H5* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Backend* | *User story H6* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Backend* | *Unit test H6* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Frontend* | *View H6* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Backend* | *User story H7* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Backend* | *Unit test H7* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Frontend* | *View H7* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Backend* | *User story H8* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Backend* | *Unit test H8* | *Guillermo Diz Carmen María Muñoz* | *2* |
| *Frontend* | *View H8* | *George Laurentiu Bogdan Francisco Rodríguez* | *2* |
| *Document* | *Sprint analysis* | *Guillermo Diz*  *Carmen María Muñoz*  *Francisco Rodríguez*  *George Laurentiu Bogdan* | *2* |
| *Backend* | *User story H9* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Backend* | *Unit test H9* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Frontend* | *View H9* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Backend* | *User story H10* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Backend* | *Unit test H10* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Frontend* | *View H10* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Backend* | *User story H11* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Backend* | *Unit test H11* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Frontend* | *View H11* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Backend* | *User story H12* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Backend* | *Unit test H12* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Frontend* | *View H12* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Backend* | *User story H13* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Backend* | *Unit test H13* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Frontend* | *View H13* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Backend* | *User story H14* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Backend* | *Unit test H14* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Frontend* | *View H14* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Backend* | *User story H15* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Backend* | *Unit test H15* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Frontend* | *View H15* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Backend* | *User story H16* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Backend* | *Unit test H16* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Frontend* | *View H16* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Backend* | *User story H17* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Backend* | *Unit test H17* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Frontend* | *View H17* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Backend* | *User story H18* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Backend* | *Unit test H18* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Frontend* | *View H18* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Backend* | *User story H19* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Backend* | *Unit test H19* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Frontend* | *View H19* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Backend* | *User story H20* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Backend* | *Unit test H20* | *Guillermo Diz Francisco Rodríguez* | *3* |
| *Frontend* | *View H20* | *Carmen María Muñoz George Laurentiu Bogdan* | *3* |
| *Document* | *Rationale* | *Guillermo Diz Francisco Rodríguez* | *3* |

|  |  |  |  |
| --- | --- | --- | --- |
| *Document* | *Sprint analysis* | *Guillermo Diz*  *Carmen María Muñoz*  *Francisco Rodríguez*  *George Laurentiu Bogdan* | *3* |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Metrics

|  |  |
| --- | --- |
| **Métrica** | **Valor** |
| **No. of entities (excluding actors)** | *10* |
| **Relations** | *11* |
| **N-to-N relations** | *3* |
| **Simple constraints** | *39* |
| **Business rules** | *7* |
| **Total user stories** | *20* |
| **User stories involving 2 or more entities** | *14* |
| **User stories involving 3 or more entities** | *5* |
| **Actors** | *4* |