Project Planning and Developing Methodology

This project has been planned with two methodology types:

- Classic, implemented with Microsoft® Project.
- Agile, implemented with Atlassian® Jira and Scrum Poker.

For the first stages (documentation tasks), we are using a classic methodology; and for the last stage (coding tasks), we are using an agile methodology.

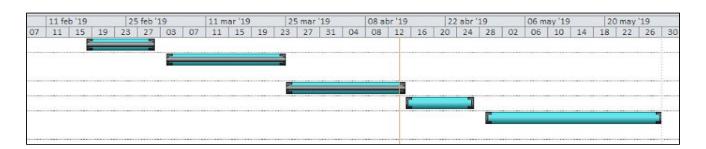
Global Tasks

The first actions to define are the tasks' names, duration, date of start and date of end. This has been made with **Microsoft® Project** software.

	0	Modo 🕌 de	Nombre de tarea	Duración 🕌	Comienzo	Fin 🔻	Predecesoras ,
1	V 10	AP	PROJECT PROPOSAL	19 horas	lun 18/02/19	vie 01/03/19	
2	√ Ø	A.	FINAL PROJECT PROPOSAL	24,25 horas	lun 04/03/19	dom 24/03/19	
3	V 10	A	DELIVERY #1	24,25 horas	lun 25/03/19	dom 14/04/19	
4	(B)	A	DELIVERY #2	19 horas	lun 15/04/19	vie 26/04/19	
5	@	A	FINAL DELIVERY (Coding Scrum Agile)	83 horas	lun 29/04/19	mié 29/05/19	

Timeline Diagram

This is the **GANTT** classic methodology to represent the tasks to be performed along the project's time period.



The last task (coding stage) have been planned with an agile methodology. See below in this document.

Higher Level Tasks

	Modo de tarea	Nombre de tarea	Duración	Comienzo	Fin	% completado
1	Programada ı	PROJECT PROPOSAL	19 horas	lun 18/02/19	vie 01/03/19	1009
	Title, purpos Functional ar Mockups or	nd non-functional requirements				
2	Programada ı	FINAL PROJECT PROPOSAL	24,25 horas	lun 04/03/19	dom 24/03/19	1009
	Any changes	in the initial project proposal				
3	Programada ı	DELIVERY #1	24,25 horas	lun 25/03/19	dom 14/04/19	1009
	Use Case dia Database (En Description o	es nd non-functional requirements gram and their textual descripti ntity-relation diagram and relati of the project methodology use ning (dates, tasks/product back)	on onal mode <mark>l)</mark> d (Agile or classic	A CONTRACTOR OF THE PARTY OF TH	rints+burndown char	t)
4		DELIVERY #2	19 horas	lun 15/04/19	vie 26/04/19	05
101	And the second second second second	in previous documents already n		101.25/04/25		2.2
5	Programada ı	FINAL DELIVERY (Coding Scrum A	83 horas	lun 29/04/19	mié 29/05/19	0
	Final version 1. Final Docu 2. Final Code					
	Use case diag Test cases an Class diagran Entity relatio Description of Project plant Project mem	nd non-functional requirements gram and their textual descripti id test data in in diagram and relational mode of the methodology used (Agile ning (dates, tasks/product backl o: initial planning, diary log, pro	on I or classic approac og, resources/effo	ort points, GANTT/sp		t)
	Innovation Installation	ence with initial functionalities Guide				
	SOURCE COD 40%					
	Multilayered Internal doc					
	Visual Aspec	t. UX (User eXperience) and UI	(User Interface) d	esign.		
	PRESENTATION 25%	ON s of presentation				
		swers. Strong knowledge of the	whole application	n		

Calendar

The working time values of the Proven1 calendar have been used for stages 1,2,3 and 4 (without specific time for project in teaching hours) and specifications of the Proven 2 calendar for stage 5 with time in class for project.

CALENDARIO BASE:	Proven1
Día	Horas
lunes	18:15 - 18:45, 21:30 - 22:00
martes	18:15 - 18:45, 21:30 - 22:00
miércoles	18:15 - 18:45, 20:45 - 21:30
jueves	18:15 - 18:45, 21:30 - 22:00
viernes	18:15 - 18:45
sábado	No laborable
domingo	No laborable
Excepciones:	Ninguna

CALENDARIO BASE:	Proven2
Día	Horas
lunes	15:15 - 18:15, 18:45 - 21:30
martes	15:15 - 18:15
miércoles	No laborable
jueves	15:15 - 18:15, 18:45 - 21:30
viernes	15:15 - 18:15
sábado	No laborable
domingo	No laborable
Excepciones:	
Fecha	Horas
lun 29/04/19 - mar 30/04/19	No laborable
mié 01/05/19	No laborable

Costs

The project costs will be determined in the final delivery when we have evaluated all the resources directly and indirectly dedicated.

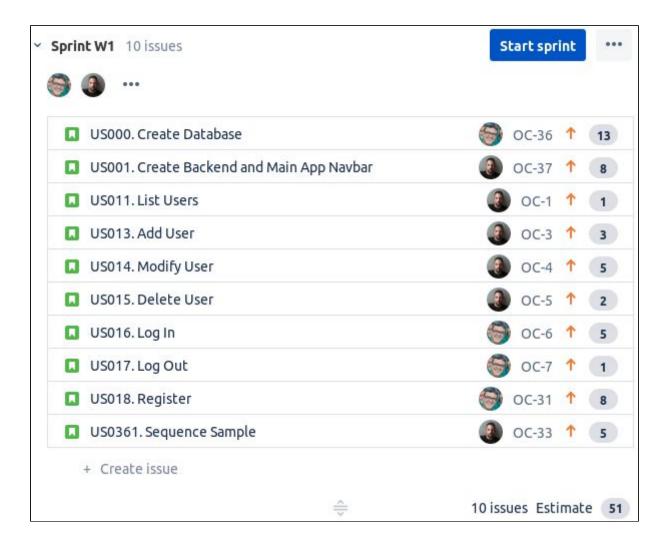
Product Backlog

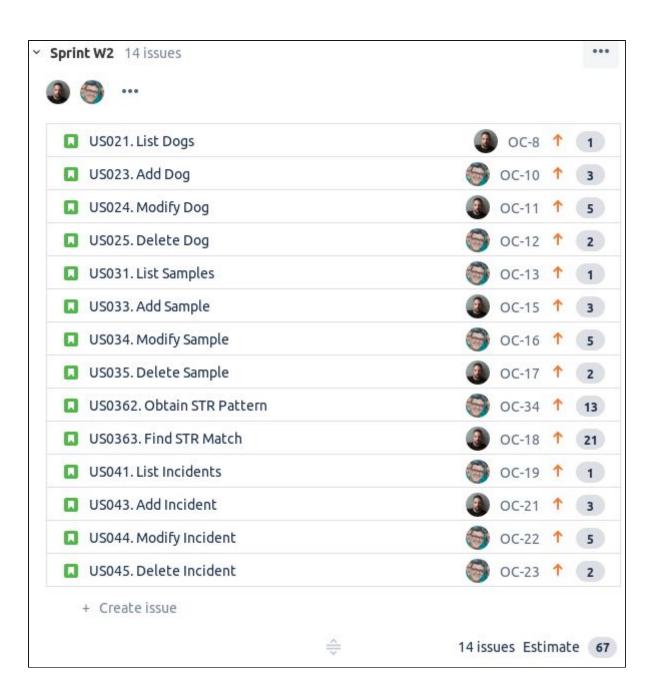
	US000. Create Database
	US001. Create Backend and Main App Navbar
	US011. List Users
	US013. Add User
	US014. Modify User
	US015. Delete User
	US016. Log In
	US017. Log Out
	US018. Register
	US0361. Sequence Sample
	US021. List Dogs
	US023. Add Dog
	US024. Modify Dog
	US025. Delete Dog
	US031. List Samples
N.	US033. Add Sample
N.	US034. Modify Sample
	US035. Delete Sample
	US0362. Obtain STR Pattern
	US0363. Find STR Match
	US041. List Incidents
	US043. Add Incident
	US044. Modify Incident
	US045. Delete Incident

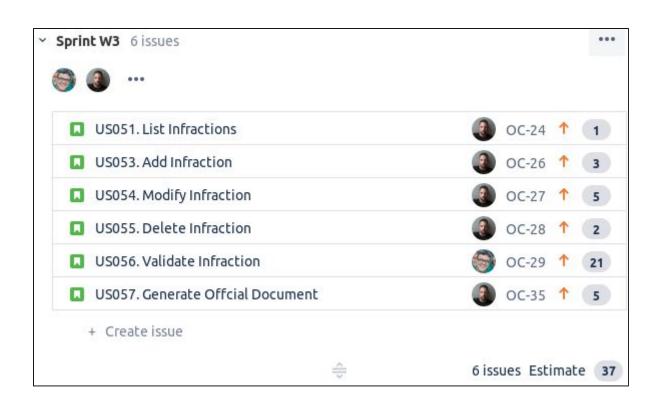
Sprints Planning

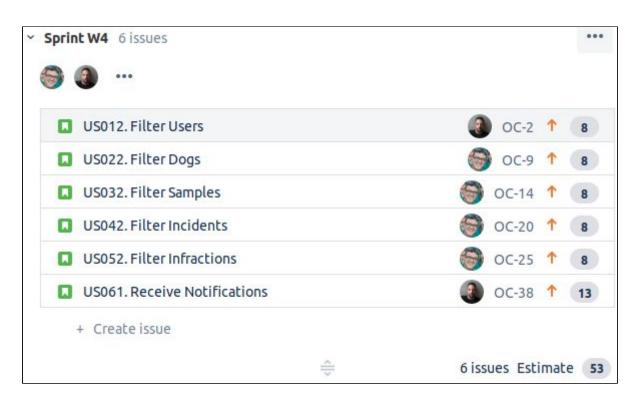
We are going to do 4 sprints, and each sprint is going to take 1 week.

First, the Product Backlog (this is, the User Stories) is created at Atlassian® Jira.





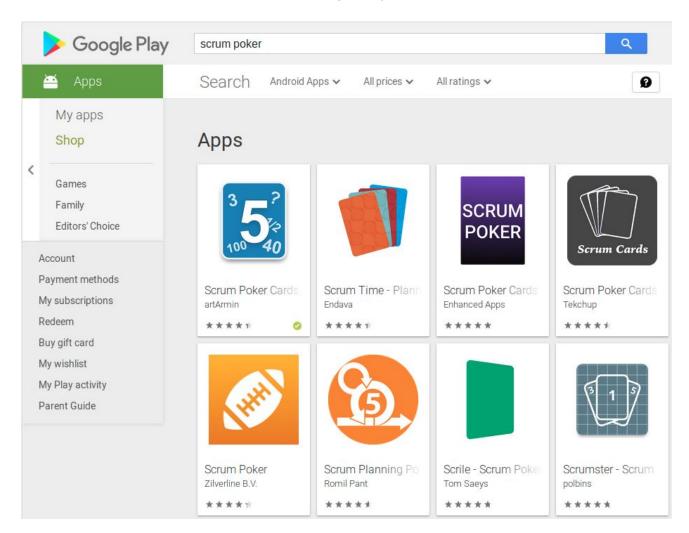




Effort Points

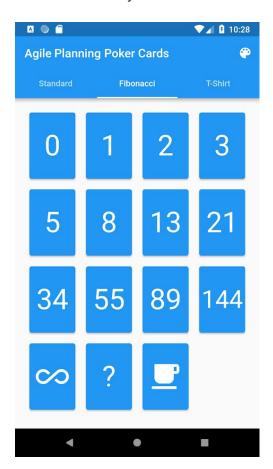
The developers, we have sit and assign the effort points to each user story using the agile methodology named **Scrum Poker**.

This can be played with real poker cards or, alternatively, using an app for smartphone. There are several Scrum Poker apps in both (Android) Google Play and (iOS) App Store.





Concretely, we have used the **Fibonacci** progression to vote the effort points that each one thinks for each user story.



After the voting, if the two of us chose the same score, it is assigned directly to that user story; otherwise, each of us must **explain why that score has been chosen**. Then, we can re-vote or assign the mean of the two scores.

For each sprint, we have assigned approximately the same amount of user stories per each developer, regarding the effort points assigned by Scrum Poker previously.

Counting down all the user stories, we have a total of:

$$51 + 67 + 37 + 53 = 208$$
 effort points

We have 1 month to develop de app, so if we divide the total effort points by 4 weeks, the resulting planning should have 4 sprints of approximately:

208 / 4 = **52** effort points per sprint

Workload by assignee - Sprint W1 Assignee Issues Story Points Unassigned 0 0 Oscar Burgos 4 27 Alejandro Asensio 6 24 Total: 10 51

Assignee	Issues Story Poi	nts
Unassigned	0	0
Alejandro Asensio	6	35
Oscar Burgos	8	32
Total:	14	67

Assignee	Issues Story Poi	nts
Unassigned	0	0
Oscar Burgos	1	21
Alejandro Asensio	5	16

Assignee	Issues S	tory Points
Unassigned	0	(
Oscar Burgos	4	32
Alejandro Asensio	2	21

We can not evaluate the burndown chart since we have not started the first sprint. From the first sprint we will make the daily meeting (daily scrum) to follow up and expose the problems that arise. At the end of the sprint we will do the sprint review to see the finished tasks and we will do a retrospective sprint where we will evaluate the improvements for the following sprints.