

## 1. PRODUCT BACKLOG ITEMS S2 (PBI)

In this part there are described the functionalities, requirements, improvements and corrections found within the Product Backlog. Concretely it is described the “what” more than the “how” of a customer-centric feature.

We remove some task because we think that it was duplicated, or we add more task because we think that we need them.

TASKS	DESCRIPTION	RESPONSABLES	DATE	QUESTIONS (ACCEPTANCE CRITERIA)
<b>1.-More concurrency situation</b>	Developing another multithread application in Java	Nahia & Aitor	12/16/2019	Is the concurrency problem solve?
<b>1.4.1.-Find Information II</b>	Find information about developing a multithread application and talk about with the expert	Nahia	12/16/2019	<ul style="list-style-type: none"> <li>We talk with the expert.?</li> <li>Is all the information to develop the application clear?</li> </ul>
<b>1.4.2.-See in which part we can apply II</b>	See in which part we can apply the concurrency part if it resolves the problem we want to solve.	Nahia	12/16/2019	Does the problem solve?
<b>1.4.3.-Develop the application II</b>	Develop the application to solve the concurrency problem and let it work	Nahia	12/16/2019	Is the application developed and working?
<b>1.5.1.-Find Information III</b>	Find information about developing a multithread application and talk about with the expert	Aitor	12/16/2019	<ul style="list-style-type: none"> <li>We talk with the expert.?</li> <li>Is all the information to develop the application clear?</li> <li></li> </ul>



<b>1.5.2.-See in which part we can apply III</b>	See in which part we can apply the concurrency part if it resolves the problem we want to solve.	Aitor	12/16/2019	Does the problem solve?
<b>1.5.3.-Develop the application III</b>	Develop the application to solve the concurrency problem and let it work	Aitor	12/16/2019	Is the application developed and working?
<b>1.6.1.-Find Information IV</b>	Find information about developing a multithread application and talk about with the expert		12/19/2019	<ul style="list-style-type: none"> <li>• We talk with the expert.?</li> <li>• Is all the information to develop the application clear?</li> </ul>
<b>1.6.2.-See in which part we can apply IV</b>	See in which part we can apply the concurrency part if it resolves the problem we want to solve.		12/19/2019	Does the problem solve?
<b>1.6.3.-Develop the application IV</b>	Develop the application to solve the concurrency problem and let it work		12/19/2019	Is the application developed and working?
<b>3.- Define the test cases (Black,White)</b>	Define the test cases	Xabier	12/16/2019	Are all test do it and pass it?
<b>3.1.-Define white box testing</b>	Define white box testing	Xabier	12/16/2019	Are the white box test cases defined?
<b>3.2.-Define black box testing</b>	Define black box testing	Xabier	12/16/2019	Are the black box test cases defined?
<b>5.-Develop and use front-end frameworks</b>	Configure JavaDoc and UML plugin	Loredi	12/16/2019	Are JavaDoc and UML plugins configured and working?



<b>5.1- JQuery</b>	Create JQuery querys	Loredi	12/16/2019	Is the JQuery querys working?
<b>5.2- Bootstrap</b>	Create bootstrap navigation bar	Loredi	12/16/2019	Is the bootstrap working?
<b>5.3- Multilanguage</b>	Create multilanguage option	Loredi	12/16/2019	Is the app on multilanguage do it?
<b>6.-Deploy projects on external server</b>	Deploy the project to the server	Xabier	12/16/2019	Is the app working on the server?
<b>6.1. -AWS</b>	Activated the AWS	Xabier	12/16/2019	Can we connect all?
<b>6.3- Commit code to git clone/pull server</b>	When we commit that server clone or pull the project	Xabier	12/16/2019	Is a commit pulling or cloning to the server?
<b>8.2.1- Test the application using the user test plan</b>	Test to other persons the axure program	Ane & Nahia	12/16/2019	Are all user tested?
<b>8.2.2- Considering the user's opinions make improvements in the application.</b>	Apply this improvement on axure	Ane	12/16/2019	Are improvements in the application?
<b>8.2.3- Documentation for the test results</b>	Document the analysis of test	Ane	12/16/2019	Is the documentation done?
<b>8.4.- Use data visualization libraries, frameworks and tools</b>	Use data visualization libraries, frameworks and tools that have not been seen on class for developing new interfaces or for improving the dashboard	Ane	12/16/2019	Are new dashboard with new libraries, frameworks and tools done?
<b>8.5.- Add new interaction types on the interfaces to enhance user experience.</b>	Define the information visualization	Ane	12/16/2019	Are the information visualization done?

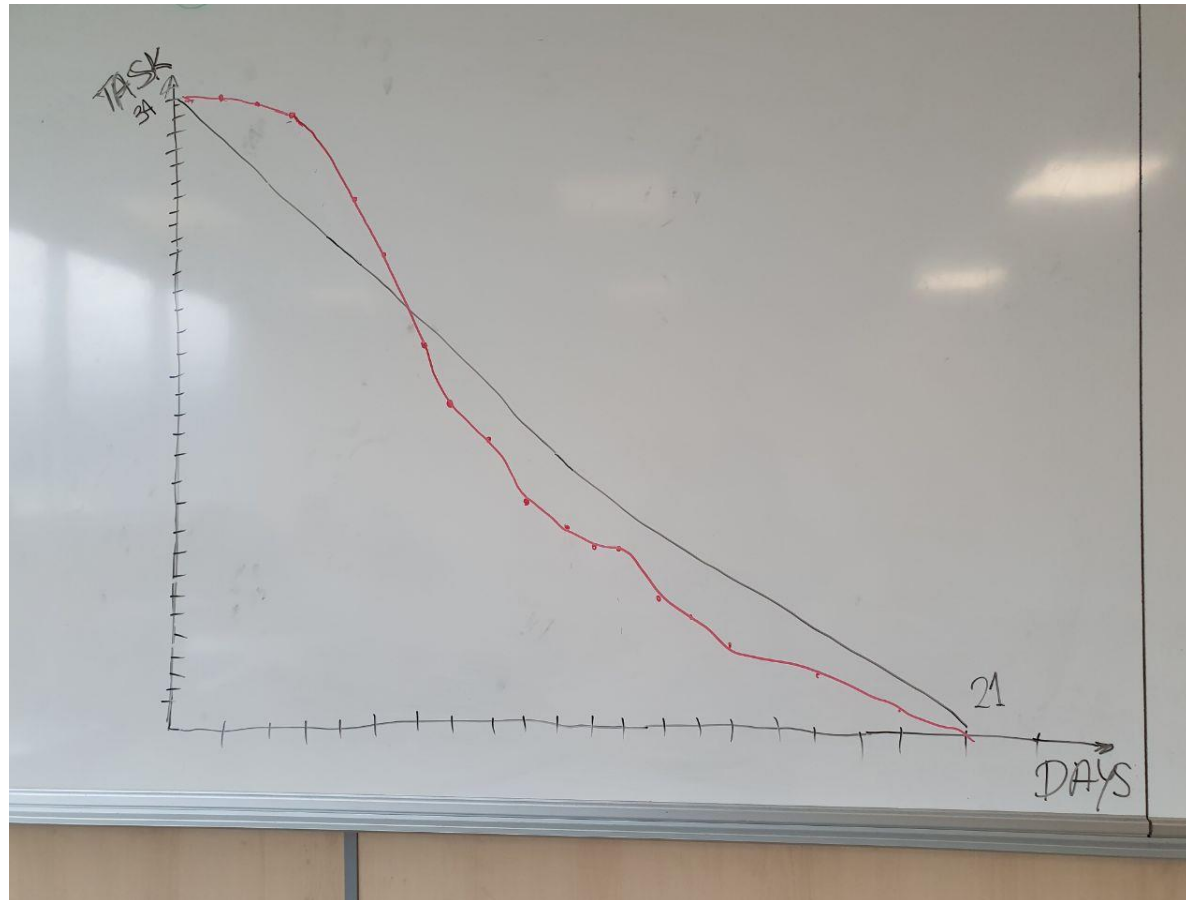


<b>8.6.- Design and run user test for interface evaluation</b>	Define graphics	Ane	12/16/2019	Are the information visualization graphics defined?
<b>8.7.1. – Test with real app</b>	Do the test in the real application	Nahia	12/16/2019	Are the test done?
<b>8.7.2. – Conclusion and improvements of the results</b>	Give the conclusions of the tests performed	Nahia	12/16/2019	Are conclusions of test performed?
<b>8.7.3. – Documentation for the futures changes and conclusion</b>	After performing the tests, we must give conclusions and see what to change	Nahia	12/16/2019	Is the documentation done? We see and justify the future lines?
<b>11.- Documentation</b>	Do the documentation	All	12/16/2019	Is the documentation correctly done?
<b>11.2.- Documentation milestone 2</b>	Do the documentation for the milestone 2	All	12/16/2019	Is all the documentation for the milestone 1 correctly done?
<b>11.3 Economic and social impact</b>	The social and economic impact of the project	Ane	12/16/2019	Is the economic and social impact on the memory?
<b>11.4 Software handbook</b>	The documentation of the software handbook	Xabier	12/16/2019	Is the software handbook finished?g
<b>12.- Presentation</b>	Do the presentation	All	12/16/2019	Is the presentation correctly done?
<b>12.1.- Presentation for milestone 2</b>	Do the presentation for the milestone 1	All	12/16/2019	Is the presentation for the milestone 1 correctly done?



## 1.1. SPRINT 1 BURNDOWN CHART

In this part there is the burndown chart that measures the status of the development of the project. It shows a graphical representation of work left to do versus time. The outstanding work (or backlog) is often on the vertical axis, with time along the horizontal.



Burndown chart



## 1.2. BOARD IMAGES

In this part, there are different images, about the pre-product backlog, as we can see below.



Day 1



PBI	SBI	REF.	TODO	IN PROGRESS	DONE
8	91	141			
7	92	142			
	14	143			
9	51	821			
1	52	822			
2	53				
	61				
11	62				
12	63				
3	82				
6	22				
	84	72			
5	85	93			
	86				

Day 2





PBI	SBI	REF.	TODO	IN PROGRESS	DONE
8	91		93		
7	92		72		
	14				141
9	51				142
1	52				143
2	53		31		222
11	61	824	32		
12	62				
3	63				
	82				
6	2.2				
5	84				
	85				
	86				

Day 3

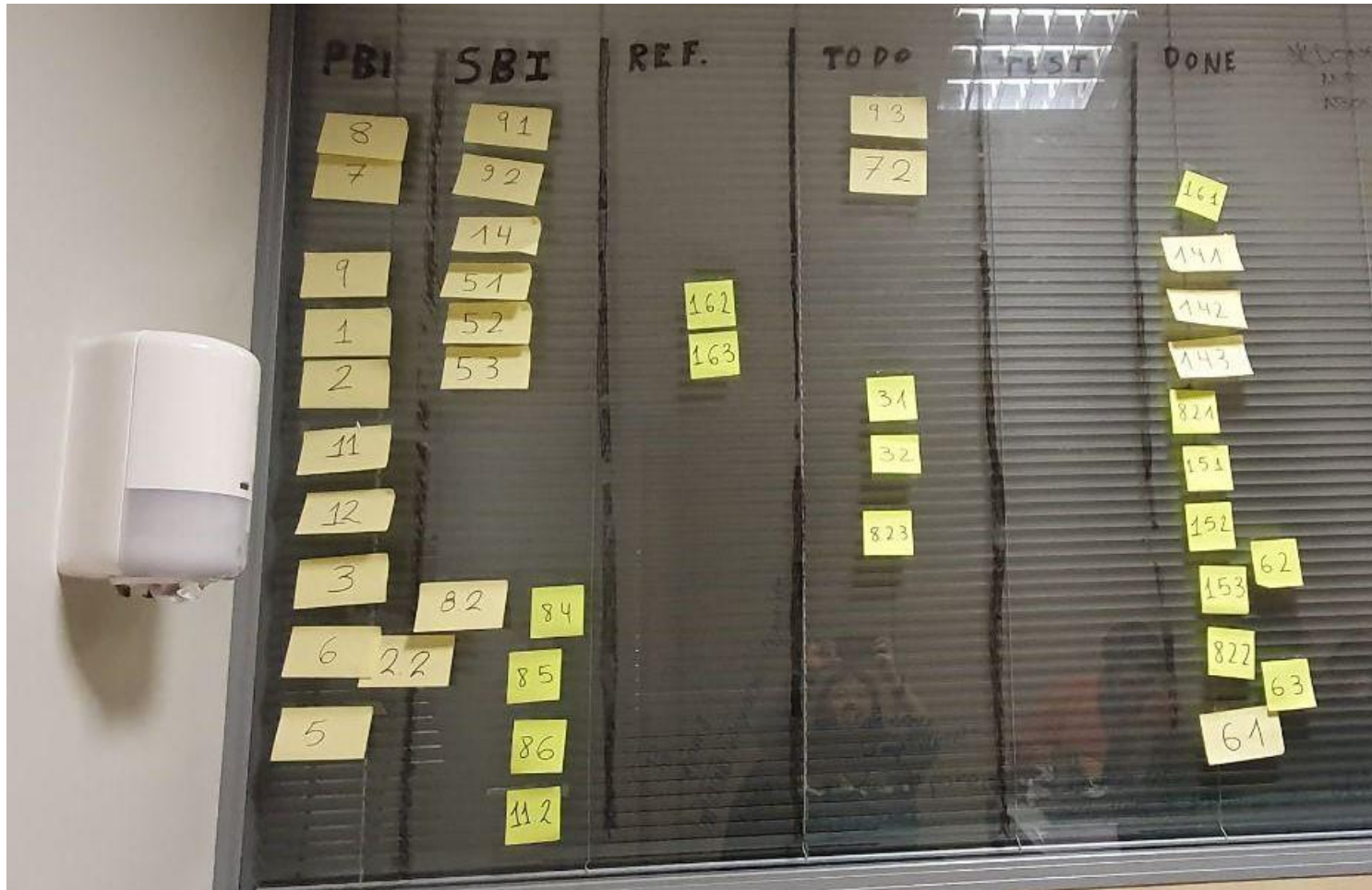




PBI	SBI	REF.	TO DO	TECH	DONE
8	91		93		
7	92		72		
	14	161			141
9	51	162			142
1	52	163	822		143
2	53		31		821
	61		32		151
11	62				152
12	63		823		153
3	82				
6	84				
22	85				
5	86				
	112				

Day 4





Day 5



PBI	SBI	REF.	TO DO	TEST	DONE
8	14		2.2	9.1	8.2
7	5.1		9.3	9.2	8.5
9	5.2		7.2	8.6	
1	5.3	16.2	3.1		
2	8.4	16.3	3.2		
11	11.2		8.2.3		
12					
3					
6					
5					

Day 6



PBI	SBI	REF.	TO DO	TEST	DONE
8			2.2	5.1	8.2
7			7.2	5.2	8.5
9	5.3		3.1	9.3	9.1
1		16.2	3.2	8.2.3	9.2
2		16.3	8.4		8.6
11			11.2		1.4
12					
3					
6					
5					

Day 7





PBI	SBI	REF.	TO DO	TEST	DONE
8		16.2	2.2		8.2
7			7.2		8.5
9	5.3	16.3	3.1		9.1
1	11.2	8.4	3.2		9.2
2	11.3		12.2		8.6
11		8.7.3	1.3		1.4
12		8.7.2	8.4.1		5.1
3			8.4.2		5.2
6			11.4		9.3
5			8.7.1		8.2.3
			9.6		

Day 8



PBI	SBI	REF	TO DO	TEST	DONE
8		162			82
7			112		85
			113		91
1	53	163		9	97
2		84	122		11
11		872	13		51
12		873	96		57
3			841		93
6			842		86
5			871		22
			32		72
					31
					114

Day 9





PBI	SBI	REF.	TO DO	TEST	DONE
8		162			6 82
1					2 85
	53	163	112		7 91
		84	113	9 114	92
		872	122		51
11		873	13		57
12			96		93
3			841		31 86
5			842		22
			871		72
			32		

Day 10



PBI	SBI	REF.	TO DO	TEST	DONE
8		162			6 82
1			112	9	2 85
		163			7 91
		84	122		114 92
11			13		113 51
12			96	53	841 57
3			842		31 93
5			871		86
			872	32	22
			873		72

Day 11



PBI	SBI	REF.	TO DO	TEST	DONE
8		162			6 82
1			112		2 85
		163		9	7 91
			122		114 92
			13		113 51
			96	53	84 57
11					841 93
12					842 86
3				32	31 22
5			871		72
			872		
			873		

Day 12



PBI	SBI	REF.	TO DO	TEST	DONE
8					6 8.2
1					2 8.5
					7 9.1
			12.2		11.4 9.2
			13	9	11.3 5.1
			9.6	5.3	8.4 5.7
11					8.4.1 9.3
12				3.2	8.4.2 8.6
3			8.7.1	1.6.2	3.1 7.2
5			8.7.2	1.6.3	11.2
			8.7.3		7.2

Day 13





PBI	SBI	REF.	TO DO	TEST	DONE
8					6 82 11
1					2 85 12
					7 91
					114 92
				9	113 51
			13		84 57
			96	53	841 93
					842 86
				32	31 72
			871	162	112 72
			872		
			873	163	122
3					
5					

Day 14



PBI	SBI	REF.	TO DO	TEST	DONE
8					6 82 11
					2 85 12
					7 91 162
				9	114 92 163
			13		113 51 1
			96	53	84 57
					841 93
				32	842 86
3			871		31 12
5			872		112 72
			873		122

Day 15





PBI	SBI	REF.	TO DO	TEST	DONE
8					6 8.2 11
					2 8.5 12
					7 9.1 16.2
					11.4 9.2 16.3
					11.3 5.1 1
			13		8.4 5.7 3.2
			9.	5.3	8.4.1 9.3 3
				9.6	8.4.2 8.6
5			8.7.1		3.1 7.2
			8.7.2		11.2 7.2
			8.7.3		12.2

Day 16



PBI	SBI	REF.	TO DO	TEST	DONE
8					6 82 11
					2 85 12
					7 91 162
					114 92 163
					113 51 1
				13	84 52 32
					841 93 3
					842 86 53
					31 22 96
					112 72 9
					122
			871		
			872		
			873		

Day 17



PBI	SBI	REF.	TO DO	TEST	DONE
8					6 82 11
					2 85 12
					7 91 16.2
				8.71	11.4 9.2 16.3
					11.3 5.1 1
			8.73	8.72	8.4 5.2 3.2
					8.4.1 9.3 3
					8.4.2 8.6 5.3
					3.1 2.2 9.6
					11.2 7.2 9
					12.2
					5 13

Day 18



PBI	SBI	REF.	TO DO	TEST	DONE
8			8.73		6 8.2 11 8.71 2 8.5 12 8.72 7 9.1 16.2 11.4 9.2 16.3 11.3 5.1 1 8.4 5.7 3.2 8.4.1 9.3 3 8.4.2 8.6 5.3 5 3.1 2.2 9.6 13 11.2 7.2 9 12.2

Day 19



PBI	SBI	REF.	TO DO	TEST	DONE
					6 82 11 871
					2 85 12 872
					7 91 16 873
					114 92 163 8
					113 51 1
					84 57 32
					841 93 3
					842 86 53 5
					31 22 96 13
					112 72 9
					122

Day 20

