				R1: No more than	a five weeks should elapse for a single sprint.			
Project Nan	Total Sprints	Sprint Sample Value per Project	NaNs in Sprints Start Date	NaNs in Sprints End Date	Sprint Duration (in days) - counts	Percentage	Binary Output	Comments
XD	66	Sprint 68	N/A	N/A	N/A	N/A	N/A	This rule is not applicable for this project, because we not have the needed information.
Apstud	34	2012 Sprint 15	N/A	N/A	N/A	N/A	N/A	This rule is not applicable for this project, because we not have the needed information.
Tistud	59	2012 Sprint 18	N/A	N/A	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.
Mobile	23, out of which, 1 sprint is invalid, cause it is a duplication of two individual sprints that already exist in the project. So, for this rule, only 22 sprints are analyzed in this project!	"[com. atlassian greenhopper service sprint Sprint@2458c8d[id=288, rapid/weid=4], anie-ACTIVE_name-Moodle App 18.2, am/Dae=2020-completeDate==milth=activatedDate=2020-03-30711.10 08.305Z, sequence=289 goal=[T]	0	0	Sprint 74	6/22 sprints pass the rule (including the Sprint that lasted 29 days) 16/22 sprints fail the rule	0	There are 23 sprints in this project, and most of them (15:23) Isasied much longer than 4 weeks. This tells us that this stam was doing long sprints that exceed the principles of the Sexum Guide.
MDL	269	"[com afassin greenhopper service sprint Sprint@40c688a]d=237, rapidViewld=126,state=AcTIVE.nume=Moodle 3.9 - Moppies Kanban, startDate=2019-09-15T13-99-00.000Z,endDate=2019-10-31T14-99-00.000 Z,completeDate="null">–sequence=237_goal=null*-[T]	1 sprint has NULL start date: <null>,codDate=<null>,co</null></null>	l sprint has NULL end date: <null>, completeDate=<nul< td=""><td>Sprint 114: 58 days Sprint 114: 33 days Sprint 237: 64 days Sprint 245: 32 days Sprint 264: 53 days Sprint 264: 53 days Sprint 264: 53 days</td><td>Total Sprints After Ceaning the data field. 28 sprints Cleaning was one, due to the first that there were may sprints with would IDs (combination of other sprints IDs), deplicate IDs, et.  120/126 sprints pass the rule 6/126 sprints fail the rule since the duration of these sprints was more than 28 days</td><td>0</td><td>There is one sprint with NULL start and end date!  Most of the sprints (120) were lasting less than 4 week as prescribed by the Serum Guide. There are only 6 sprints that lasted longer than the usual. Overall, MDI project sprints seem to have addressed to the Serum principles as per Serum Guide.</td></nul<></null>	Sprint 114: 58 days Sprint 114: 33 days Sprint 237: 64 days Sprint 245: 32 days Sprint 264: 53 days Sprint 264: 53 days Sprint 264: 53 days	Total Sprints After Ceaning the data field. 28 sprints Cleaning was one, due to the first that there were may sprints with would IDs (combination of other sprints IDs), deplicate IDs, et.  120/126 sprints pass the rule 6/126 sprints fail the rule since the duration of these sprints was more than 28 days	0	There is one sprint with NULL start and end date!  Most of the sprints (120) were lasting less than 4 week as prescribed by the Serum Guide. There are only 6 sprints that lasted longer than the usual. Overall, MDI project sprints seem to have addressed to the Serum principles as per Serum Guide.
DNN	103	Sprint 2; Content 8.1.0 - Sprint 3;	N/A	N/A	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.
Mesos	70	Mesosphere Sprint 34	N/A	N/A	N/A	N/A	N/A	This rule is not applicable for this project, because we enot have the needed information.
Mule	104	startDate=2016-04-27T11:27:32.496-05:00	I sprint has no valid start date  Its value is: startDate=<=null>=	104. There is no end date recorded for this project. For the analysis, the start date of the next sprint will be considered as the end date of the previous sprint.	Sprint: 2015-10-19 14-50-33-528000-05-00-42 days	102/103 sprints pass the rule. 1/103 sprint fails the rule. Its duration is 42 days! 103 sprints in total, because we do not have information for the duration of 1 sprint.	0	For this project, we only have the start date. Since the end date is missing, the start date of the next sprint is considered as the end date of the previous sprint. Alm, all (102/103) of the sprints in this project have a duratile less than 28 days, very well aligned with Serum Guid guidelines. Only 1 sprint has a duration of 42 days, the failing the rule. There is one sprint with invalid date
Nexus	70	Sprint 68 - Föhn	N/A	N/A	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.
Timob	63	Documentation Sprint 03 - 2016; Sprint 2012-15 API	N/A	N/A	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.
oject Nan	e Total Sprints	NaNs in Sprints Start Date	NaNs in Sprints End Date	R4: The duration of all sprints should follow Sprint Duration (in days) - counts	w similar pace. Percentage	Binary Output	Comments	
XD	66	N/A	N/A	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.	
Apstud	34	N/A	N/A	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.	
Tistud	59	N/A	N/A	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.	
Mobile	23, out of which, I appint is invalid, came it is a duplication of two individual appins that are sprint that already exist in the project. So, for this rule, only 22 sprints are analyzed in this project!	9	0	Sprint 142   24 days 2.15 9.17 2.12000	Descriptives for the spirit duration:    1209	0	The spirits in this project were definitely not following a slimber piece. As we can see from the descriptives, there are spirits that one of the control with a second control	
MDL	269		1	Its days 0.000.00 293 Its days 0.000.00 129 Its days 0.0000.00 129 Its days 0.00000.00 129 Its days 0.00000.00 129 Its days 0.00000.00 129 Its days 0.000000 129 Its days 0.00000000 129 Its days 0.00000000000000000000000000000000000	Total Sprims After cleaning the data field: 126 sprints  Descriptives for the sprint duration.  count  24.17  mean II days 88-95-85-858-758-848  1 days 88-95-85-858-758-848  1 days 88-95-85-858-758-848  1 days 88-95-85-858-758-848  1 days 88-95-85-85-858-758-88  2 days 19-85-85-85-85-88  2 days 19-85-85-85-85-88  2 days 19-85-86-86  12 12 days 2 days 19-85-86-86  12 12 days primts lasted 10 days.  3 days primts lasted 16 days.  11 days primts lasted 16 days.  11 days primts lasted 16 days.  11 days primts lasted 19 days.  12 days primts lasted 19 days.  12 days primts lasted 19 days.  13 days primts lasted 19 days.  14 days primts lasted 19 days.  15 days primts lasted 19 days.  16 days primts lasted 19 days.  17 days primts lasted 19 days.  16 days primts lasted 19 days.  16 days primts lasted 19 days.  16 days primts lasted 19 days.  17 days primts lasted 19 days.  17 days primts lasted 19 days.  18 days days days days days days days days	0	Roughly half of the sprints (62126) have followed a similar decision of completion. Additionally, there are more sprints who have taken anoual 31 days is complete. However, there are several sprints that interestingly have taken much longer or leaves the sprints in the supplementary of the sprints in total.	

			T					
DNN	103	N/A	N/A	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.	
Mesos	70	N/A	N/A	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.	
Mule	104		104. There is no end date recorded for this project. For the analysis, the start date of the next sprint will be considered as the end date of the previous sprint.	Many sprints to show. Can be found in the notebook.	count 1146.000000 mean 0.007114 std 3.698909 min 0.000000 25% 0.000000 25% 0.000000 max 42.000000 max 42.000000 20103 sprints have shared a similar range of duration, from 0 to 3 duration of the shared similar range of duration of the similar duration.  B3/103 sprints have shared instantly after the previous sprint was finished.  There are 5 sprints that stated instantly after the previous sprint was finished.	o	Most of the sprints have a similar pace of completion, time wise. However, there are around 6 sprints in this project whose completion duration deviates from the others. Only 1 than 28 days, Project Mule complete to the Scrum rules well.	
Nexus	70	N/A	N/A	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.	
Timob	63	N/A	N/A	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.	
			R5: TF	ne next Sprint execution should begin only after the	previous Sprint's resolution.			
Project Nam	e Total Sprints	Sprint Duration (in days) - count	Percentage	Binary Output	Comments			
XD	66	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.			
Apstud	34	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.			
Tistud	59	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.			
Mobile	23, out of which, 1 sprint is invalid, cause it is a duplication of two individual sprints that already exist in the project. So, for this rule, only 22 sprints are analyzed in this project!	Sprint 170: 54 abys 10-63-579. 5446000 Sprint 95: 61 days 11-52-04-80000 Sprint 195: 62 days 10-64-00 Sprint 195: 62 days 00-64-00 Sprint 195: 62 days 00-64-00 Sprint 107: 55 abys 10-63-54, 10-6000 Sprint 107: 54 abys 15-79-31 (75000 Sprint 106: 74 days 10-79-34, 11000 Sprint 106: 74 days 10-79-34, 11000	21/22 sprints pass the rule 1/22 sprints fail the rule	0	22 sprints in this project begin after the previous sprint has already been completed. There is one sprint that has started before the previous sprint has been finished. This can be due to the fact that I'm has prints in between whose data we do not have!			
MDL	269	Many sprints to show. Can be found in the notebook.	38/126 sprints pass the rule 43/126 sprints fail the rule For the remaining 45/126 sprints, we can't calculate this information because there are missing sprints between them. For example, we have a sprint with the 150 w	0	59 sprints fail the rule. Whereas for 67 other sprints, they have started after the previous sprint has been completed.			
DNN	103	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.			
Mesos	70	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.			
Mule	104	Many sprints to show. Can be found in the notebook.	103/104 sprints pass for this rule.  For 1/104 sprint, we do not have the information.	1	All speints in this project begin after the previous sprint has been closed. From the results, I observe that the sprints were shorter and the team accommodated usually 2 sprints per month, sometimes 1 and sometimes more. Once again, Mule project complies with the rules very well.			
Nexus	70	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.			
Timob	63	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.			
			R6: There should be a project clarity	identifier attached to each issue within the sprints.				
Project Nam	e Total Issues	Total Sprints	Empty Project Clarity IDs	Percentage (Issues Unit)	Binary Output	Comments		
XD	3152	66	0	66/66 sprints pass the rule	1	In all 66 sprints, all issues have a valid Project ID/Name		
Apstud	825	34	0	34/34 sprints pass the rule	1	In all 34 sprints, all issues have a valid Project ID/Name		
Tistud	2826	59	0	59/59 sprints pass the rule	1	In all 59 sprints, all issues have a valid Project ID/Name		
Mobile	3242	23	0	23/23 sprints pass the rule	1	In all 23 sprints, all issues have a valid Project ID/Name		
MDL	63273	269	0	269/269 sprints pass the rule	1	In all 269 sprints, all issues have a valid Project ID/Name		
DNN	1874	103	0	103/103 sprints pass the rule	1	In all 103 sprints, all issues have a valid Project ID/Name		
Mesos	1365	70	0	70/70 sprints pass the rule	1	In all 70 sprints, all issues have a valid Project ID/Name		
Mule	1278	104	0	104/104 sprints pass the rule	1	In all 104 sprints, all issues have a valid Project ID/Name		
Nexus	1037	70	0	70/70 sprints pass the rule	1	In all 70 sprints, all issues have a valid Project ID/Name		

Timob	1853	63	0	63/63 sprints pass the rule	1	In all 63 sprints, all issues have a valid Project ID/Name	
		R7: No considerable amou	unt of time should elapse between the finish of a sprint and the bo	eginning of the new sprint.			
			ediately". We will consider a one week gap between sprints, lettin	ng enough time to prepare the SPB.			
Project Name	Total Sprints	Sprints Time Differences (between finish of first sprint and beginning of next sprint)	Percentage	Binary Output	Comments		
XD	66	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.		
Apstud	34	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.		
Tistud	59	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.		
Mobile	23, out of which, 1 sprint is invalid, cause it is a duplication of two individual sprints that laready exist in the project. So, for this rule, only 22 sprints are analyzed in this project!	\$0 2 140 2 2 2 2 3 40 1 1 20 1 220 1 810 1 130 1 130 1 20 1 40 1 60 1 60 1 80 1	622 sprints pass the rule  1622 rules fail the rule (out of 16, 1 sprint has started before the previous sprint has been completed)	0	As we can see, between some sprints, the time between the finish of the first and beginning of the next sprint is 2 days, 4 days. But in other cases, this difference goes really lagh, more than \$1 days?		
MDL.	269	29 20 90 13 -190 13 -190 13 -180 18 -180 8 -180 8 -180 8 -190 8 -190 8 -190 8 -190 9 -190 2 -190 2 -190 2 -190 1 -	count 126,000000 mean 11,15794 ad 32,151657 ad 32,151657 25%, 140,00000 55%, 45,000000 75%, 30,000000 max 215,000000 max 215,000000 24/12% prints fail the rule. There are only 84 consecutive grints, as per the SPRINT_ID column, extracted from SPRINT original dan field. The departs for other as preview or east, spent information recorded.		There are 265 sprints in total, but there are missing against between them. There are only 36 consecutive sprints, upon which we can there this rule. Our of them, only 34 grounds were recorded less than 60 of them, only 34 grounds were recorded less than 50 of perints in this project, there have been delays more than 1 week between current grifts resolution date and the next sprints. The between the second of the secon		
DNN	103	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.		
Mesos	70	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.		
Mule	104	Can be seen from notebook. A lot of information to fit in this cell.	28/103 sprints pass the rule 75/103 sprints fail the rule	0	28 sprints out of the 103 valid sprints, have started within the next 6 days after the previous sprint has been concluded. However, the major part of sprints in Mule project have taken more than 6 days, or as Scrum Guide suggests: "Immediately", to start after the previous ones have been completed.		
Nexus	70	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.		
Timob	63	N/A	N/A	N/A	This rule is not applicable for this project, because we do not have the needed information.		
		R8: There s	should not be a considerable amount of time for a developer to vo	lunteer and start a new issue after she/he has comp	leted the previous one per each sprint.		
Project Name	Total Sprints	Total Issues	Sprints that fall the rule	Percentage	Binary Output	Comments	
XD	66	3152	Sprint 12: 28 days idle for all developers in total Sprint 15: 7 days idle for all developers in total Sprint 16: 5 days idle for all developers in total Sprint 16: 18 days idle for all developers in total Sprint 18: 11 days idle for all developers in total Sprint 20: 18 days idle for all developers in total Sprint 22: 18 days idle for all developers in total Sprint 22: 18 days idle for all developers in total Sprint 22: 29 days idle for all developers in total Sprint 22: 29 days idle for all developers in total sprint 28: 49 days idle for all developers in total sprint 28: 49 days idle for all developers in total sprint 28: 49 days idle for all developers in total	40/66 sprints pass the rule 26/66 sprints fail the rule	0	For each developer in each spirit of the project, their idea time has been calculated and added up with the idea time of other developers who contributed in that spirit, it was more in 1.5 in the other of other developers who contributed in the spirit, it was one in 1.5 in the other of the other	
Apstud	34	825	2012 Sprint 04, 2012 Sprint 06, 2012 Sprint 08, 2012 Sprint 12, 2012 Sprint 13	29/34 sprints pass the rule 5/34 sprints fail the rule	0	Only in 5 sprints, the developers have been idle for a non-reasonable amount of time (2 days).	
Tistud	59	2826	2012 Sprint 02, 2012 Sprint 04, 2012 Sprint 05, 2012 Sprint 05, 2012 Sprint 05, 2012 Sprint 07, 2012 Sprint 09,	30/59 sprints pass the rule 29/59 sprints fail the rule	0	In roughly half of the sprints, developers have recorded longer waiting times than 2 days	
Mobile	23	3242	1. Sprint 167, 2. Sprint 185, 3. Sprint 170, 4. Sprint 79, 5. Sprint 79,	13/23 sprints pass the rule 10/23 sprints fail the rule	0	In 10 sprints out of 23, developers have been waiting to work on new tasks during the sprint.	
MDL.	269	63273	Sprint 70, Sprint 22, Sprint 105, Sprint 22, Sprint 105, Sprint 21, Sprint 21, Sprint 21, Sprint 21, Sprint 21, Sprint 31, Sprint 31, Sprint 32, Sprint 32, Sprint 33, Sprint 34, Sprint 34, Sprint 34, Sprint 35, Sprint 34,	248/269 sprints pass the rule 21/269 sprints fail the rule	0	In 21 spiries out of 269, developers have been walking for more than 2 days to work on a new issue after completing the previous one.	

DNN	103	1874	1. 3.0 - Sprint 2 2. 3.0 - Sprint 3 3. 7.2.1 Sprint 3 4. 7.2.2 Sprint 2 5. 7.3.0 Sprint 2	84/103 sprints pass the rule 19/103 sprints fail the rule	0	In most of the sprints, the developers did not log any long idle time while working on issues of the sprint.			
Mesos	70	1365	1. Mesos (3 Sprint 6 2. Mesosphere Sprint 19 3. Mesosphere Sprint 21 4. Mesosphere Sprint 21	55/70 sprints pass the rule 15/70 sprints fail the rule	0	In most of the sprints, the developprs did not log any long idle time while working on issues of the sprint.			
Mule	104	1278	1. startDate=2013-03-20710-39-03-23-05-00 2. startDate=2013-05-22716-15-45-928-05-00 3. startDate=2013-11-11711-33-23-27-06-00 4. startDate=2014-01-15712-46-01-433-06-00 5. startDate=2014-01-15712-36-01-38-06-00 5. startDate=2014-01-29711-36-32-807-06-00	68/104 sprints pass the rule 36/104 sprints fail the rule	0	In most of the sprints, the developprs did not log any long idle time while working on issues of the sprint.			
Nexus	70	1037	1. Sprint 44 2. Sprint 45	68/70 sprints pass the rule 2/70 sprints fail the rule	0	Almost in all sprints, the developers did not wait between undertaking issues. Nexus project complies well with this rule.			
Timob	63	1853	0	All 63 sprints pass the rule	1	All sprints in this project pass the rule. Developers did not log waiting times while completing their tracks within the sprints. A reason behind these results can be that despite there being 63 sprints in this project, most of the issues have not been linked to their corresponding sprints. Or, it can be the case that this project was not using sprints for development.			
			R24: The backlog does not contain meaningles	s or empty issues. I consider meaningless issues the	issues that are duplicate, belong to no project and have no issue b	ody, description and other details that are relevant to developers and other ro	les for completing them.		
Project Name	NaNs in Sprint Field	NaNs in Description	NaNs in Summary	NaNs in Priority	NaNs in Issue Status	NaNs in Story Points	Percentage (Issue Unit)	Binary Output	Comments
XD	1326	0	0	0	0	0	3152/3152 issues pass the rule	1	assignee.name has 933 null values resolutiondate has 574 null values
Apstud	410	0	0	0	0	0	825/825 issues pass the rule	1	sprint has 1326 null values resolutiondate has 237 null values
Apatua		<u> </u>		,	-		020/020 Iosuco puso una Turc		sprint has 410 null values
Tistud	1089	•	0	1/2826 Issue: 'TISTUD-6755' has no priority assigned to it. It also belongs to no spread!	0	TISTUD-8647, TISTUD-8027, TISTUD-8027, TISTUD-8021, TISTUD-909, TISTUD-909, TISTUD-909, TISTUD-909, TISTUD-909 are the only for issues that do not have story points assigned to out of all other issues.  Since there are only 6 issues that do not have story points, and all others have their information, and information as the information, in information in information in information in information in the majority of the other issues. Same goes for the 1 issue that does not have a principle lade analysis.	2819/2826 issues pass the rule 7/2826 issues fail the rule	0	priority,name has 1 null values resolutiondate has 198 null values storypoints has 6 null values sprint has 1089 null values
Mobile	2032	0	0	0	0	3242/3242  All issues do not have story points, which means that this practice is not used in the Mobile Project. Therefore, this number of NaNs will not affect the analysis of this project.	3242/3242 issues pass the rule	1	assignee.name has 520 null values resolutiondate has 359 null values storypoints has 3242 null values sprint has 2032 null values
MDL	60540	0	0	0	0	618718273 issues do not have story points assigned to them. This means that MDL projected do not use any practice related to story points. However, it is worth mentioning that a small number of issues (1402) actually have story points assigned. It could be that they rited to incorporate some story points practice in the beginning or along the way, but it did not turn out to be useful for them, hence they stopped.	63271/63273 issues pass the rule 2/63273 issues fail the rule Out of these 4 issues, 3 of them do not have a reporter, and one of them, does not have an Issue ID/Name.	0	assignee.name has 16919 null values reporter.name has 3 null values resolutiondate has 10285 null values key has 1 null values storypoints has 61871 null values sprint has 60540 null values
DNN	246	0	0	0	0	0	1874/1874 pass the rule	1	assignee.name has 1002 null values resolutiondate has 104 null values sprint has 246 null values This project has 40 incomplete issues per sprints!
Mesos	286	0	0	0	0	0	1365/1365 issues pass the rule	1	assignee.name has 119 null values resolutiondate has 277 null values sprint has 286 null values This project has the most incomplete issue per sprints (103 issues)!
Mule	120	0	0	0	0	0	1278/1278 issues pass the rule	1	assignee,name has 55 null values resolutiondate has 78 null values sprint has 120 null values
Nexus	404	0	0	0	0	0	1034/1037 pass the rule 3/1037 issues fail the rule. There are 3 issues in this project that do not have a reporter! This is an interesting eatch, since by default, Jira records as reporters, the person who creates the issue. What does this mean in the case of these 3 issues? What does this mean in the case of these 3 issues?	0	assignee name has 287 null values reporter name has 3 null values resolutiondate has 42 null values sprint has 404 null values
Timob	1574	0	0	I Issue: TIMOB-17705 has no priority assigned to it. It also belongs to no sprint!	0	0	1852/1853 issues pass the rule 1/1853 fails the rule Since there is only I issue that does not have priority label, and all other issues have this information, it means that this I issue does not carry the full information as the majority of the other issues.	0	priority name has 1 null values resolutiondate has 174 null values sprint has 1574 null values
				R27: No more than 8 active	developers should be involved in development tasks				
Project Name	Total Issues Before and After Retaining only Active Developers	Total Sprints Before and After Retaining only Active Developers	Total Developers Before and After Retaining only Active Developers	Threshold <=	Active Developers	Percentage (Sprint Unit)	Binary Output	Comments	
XD	Before: 3152 After:2566	Before: 66 After: 66	Before: 31 After: 8	98	1 to 9 devs per sprint	66/66 sprints pass the rule	1	Out of 3152 issues, 2219 of them have developers assigned to them.	
Apstud	Before: 825 After: 646	Before: 34 After: 34	Before: II After: 4	59	1-4 devs per sprint	34/34 sprints pess	1	Out of 825 issues, 825 of them have developers assigned to them.	
Tistud	Before: 2826 After: 2494	Before: 59 After: 59	Before: 31 After: 5	100	2-5 devs per sprint	59/59 sprints pass	1	Out of 2826 issues, 2826 of them have developers assigned to them.	
Mobile	After: 2494 Before: 3242 After: 2789	After: 59 Before: 23 After: 23	After: 5 Before: 28 After: 3	100	1-3 devs per sprint	23/23 sprints pass	1	them.  Out of 3242 issues, 2722 of them have developers assigned to them.	
MDL.	After: 2789  Before: 63273 After: 50108	Atter: 23  Before: 269 After: 165	After: 3  Before: 522 After: 23	386	1-7 devs per sprint.  25 sprints have 0 developers in them. 1 sprint has 10 active devs.	139/165 sprints pass 26/165 sprints fail	0	them. Out of 63273 issues, 46344 of them have developers assigned to them. 25 sprints have 0 developers in them. 1 sprint has 10 active	
					2.5 sprints nave 0 developers in ment. 1 sprint nas 10 detive devs.  1-6 devs per sprint	91/100 sprints pass		devs.	
DNN	Before: 1874 After: 1860 Before: 1365	Before: 103 After: 100 Before: 70	Before: 12 After: 6 Before: 74.	62	9 sprints have 0 developers 1-12 devs per sprint	9/1/00 sprints fail 56/65 (after) pass	0 - cause 9 sprints fail	Out of 1874 issues, 872 of them have developers assigned to them.  Out of 1365 issues, 1246 of them have developers assigned to	
Mesos	Before: 1365 After: 821	Before: 70 After: 65	Before: 74.	31	I	1	0	Out or 1365 issues, 1246 of them have developers assigned to	1

1 sprint has 0 developers. 7 sprints have more than 8 active developers.

Before: 1365 After: 821

Before: 70 After: 65

31

Out of 1365 issues, 1246 of them have developers assigned to them.

Mule	Before: 1278 After: 1014	Before: 104 After: 94	Before: 38 After: 7	73	1-6 devs per sprint	84/94 sprints pass 10/94 fail	0	Out of 1278 issues, 1223 of them have developers assigned to them.	
Nexus	Before: 1037 After: 777	Before: 70 After: 69	Before: 22 After: 4	56	1-4 devs per sprint 8 sprints have 0 developers	61/69 sprints pass 8/69 fuil	0	Out of 1037 issues, 750 of them have developers assigned to them.	
Timob	Before:1853 After: 1359	Before: 63 After: 36	Before: 49 After: 10	73	1-2 devs per sprint	36/36 sprints pass	1	Out of 1853 issues, 1853 of them have developers assigned to them.	

				R28: The status of issues	should always follow the agreed workflow, depending on the proj	ect and development team.			
Project Name	Total Sprints	Total Issues	Total Complete Issues	Total Issue Statuses per Project	Statuses and their counts	Statuses (name and id)	Percentage (Sprint Unit)	Binary Output	Comments
XD	66	3152	574	4	Done 2578 To Do 5585 In Progress 20 In PR 4	To Do 10000 10 Do 10000 Dore 10001 In Progress 3	574/574 complete issues pass the rule	1	4 2140 45 1406 49 1136 15 675 30 630 -4 184 -45 129 -19 25 -15 15
Apstud	34	825	237	5	Closed 567 Open 220 Resolved 21 Research 15 In Series I	Open 1 In Review 10003 Resolve 5 Peoplemed 4	234/237 complete issues pass the rule 3/237 complete issues fail the rule	0	30 614 19 302 80 220 50 180 0 171 -80 164 -50 88 99 29 49 10 -49 8 -30 4 -99 3
Tistud	59	2826	198	6	Closed 2341 Rendwed 287 Open 170 Reopened 22 In Progress 4 In Review 2	# Recopored 4 # Recopored 4 # Recopored 5 # Cypen 1 # In Recopore 10003 # In Progress 3	174/198 complete issues pass the rule 24/198 complete issues fail the rule	0	50 2571 4 2044 45 1820 0 1311 49 825 100 796 150 657 -150 548
Mobile	23	3242	559	s	Closed 2252   Resolved 631   315	# 0 (pen 1   # 0 (	280/359 complete issues pass the rule 79/359 complete issues fail the rule	0	.95 475 1 45 1567 46 1587 49 1306 399 641 199 459 99 444 43 423 43 423 595 253 7795 218 4 167 395 94 7797 20
MDL	269	63273	10285	10	Closed 5.3988 Open 970 Respecied 492 Development in progress 361 Waiting for peer review 84 Waiting for integration reviews 32 Peer review in progress 30 Tested Waiting for testing 9 Integration review in progress 6 Waiting for testing 2	We do not have the changelog for this project!	We do not have the changelog for this project!	N/A	We do not have the changelog dataset for MDL project. This dataset contains information about the workflow of the issues and the transition of issue statuses.
DNN	103	1874	104	6	Cleued 1765 Open 76 Reopened 23 Pull Request Submitted 6 Planned Development 3 Renelved 1	# Closed 0 # Floogened 4 # Pull Recycled U13 # Ploogened 4 # Pull Recycled Submitted U13 # Pull Recycled U13 # Resolved 2	94/104 issues pass the rule 10/104 issues fail the rule	0	50 1791 49 619 150 601 4 453 30 375 -150 313 100 152 19 75 -100 67 99 31
Mesos	70	1365	271	5	Resolved 1088 Acceptable 138 El Brand 136 Open 56 In Progress 20	# Resolved 5 # Accepted 10000 # 10000 # 0,000 # 10,000 # 10,000 # 10,000 # 10,000 # 10,000	277/277 complete issues pass the rule	1	97 1231 49 1231 145 1125 145 11013 180 970 4 267 134 1-15 135 50 115 4 112 2-2 10 00 99 55 45 34 49 7
Mule	104	1278	78	s	Closed 1196 To Do 69 In Progress 7 Resolved 4 Respend 2	# Cobed 6 # \$0.00 1 # In Progress 3 # Responsed 4 # Responsed 4	74/78 complete issues pass the rule 4/78 complete issues fail the rule	0	4 5 9638 3 -4 5 9737 5 50 3228 49 302 2 -50 1859 15 5 5 30 90 -4 51 4 99 11 -30 6 4 -80 0 1
Nexus	70	1037	42	5	Closed 967 Open 40 Done 28 Refine 1 Raw 1	# Closed 6 # One 1 1	42/42 complete issues pass the rule	1	80 1 99 215 -99 60 -50 29 15 1 4 1

Timob	63	1853	174	6	Closed 967 Open 40 Done 28 Refine 1 Raw 1	# Closed 6 # Rescored 5 # Copen 1 # Simple 1 # In Progress 3 # In Review 10003	158/174 complete issues pass the rule 16/174 complete issues fail the rule	4 1567 50 10088 30 660 11 600 11 49 492 45 471 0 1349 11 1008 11 100 289 11 100 137 -
	Total Closed Issues (issues marked with 'closed' status)		R30: No previously closed issue should reappear in a future sprin		Comments			
XD XD	marked with 'closed' status)	Total Reappearing Issues	Percentage (Sprint Unit)	Binary Output				
Apstud	364	0	192/192 'closed' issues pass the rule 364/364 'closed' issues pass the rule	1	None from the closed issues have been reappeared in next sprints  None from the closed issues have been reappeared in next sprints			
Tistud	1150	0	1150/1150 'closed' issues pass the rule	1	None from the closed issues have been reappeared in next sprints			
Mobile MDL	4	0	4/4 'closed' issues pass the rule	l N/A	None from the closed issues have been reappeared in next sprints			
DNN	N/A 359	N/A 0	N/A 359/359 'closed' issues pass the rule	NA 1	No information about changelog/issue transition recorded for MDL project.  None from the closed issues have been reappeared in next sprints			
Mesos	225	0	225/225 'closed' issues pass the rule	1	None from the closed issues have been reappeared in next sprints			
Mule Nexus	350 34	0	350/350 'closed' issues pass the rule 34/34 'closed' issues pass the rule	1	None from the closed issues have been reappeared in next sprints  None from the closed issues have been reappeared in next sprints			
Timob	334	0	334/334 'closed' issues pass the rule 334/334 'closed' issues pass the rule	1	None from the closed issues have been reappeared in next sprints  None from the closed issues have been reappeared in next sprints			
			R31 - Each Scrum Sprints can be	considered a short project, therefore there should	be a unique identifier/name associated with each Sprint			
Project Name	Total Sprints	Total Issues	NaNs - Sprint	Not Null - Sprints	Percentage (Sprint Unit)	Binary Output	Comments	
XD	66	3152	1326	1826	66/66 sprints pass pass the rule	1	All 66 sprints are uniquely identified	
Apstud	34	825	410	415	34/34 sprints pass pass the rule	1	Number of unique sprints (excluding the nan) in the Open-	
Tistud	59	2826	1089	1737			Source Project: 34  Number of unique sprints (excluding the nan) in the Open-	
Tistud	59	2826			59/59 sprints pass pass the rule	1	Number of unique sprints (excluding the nan) in the Open- Source Project: 59	
Mobile	23	3242	2032	1210	23/23 sprints pass the rule	1	Number of unique sprints (excluding the nan) in the Open- Source Project: 23	
MDL	269	63273	66540	2734	90% of issues do not belong to any of the 200 sprints. This is a bring difference, and it is an indicate that Mall, Project was not necessary with sprints for development.  Moreover, the data recorded for the sprint data field in this project is not clear. There are cases where here are multiple sprint IDs per one could be do not know which ID is cornect for the given sprint, and we can't also see that would have been suffered to the country opinion. And the new force and the see that the country opinion is a subject to the country opinion. All 200 sprints are uniquely identified, but we do not have clear data as compared to most of the other projects. The role technically passes for this project, and prints are uniquely identified, the second of the country opinion.	ı	Number of unique sprints (excluding the nun) in the Open- Source Project, 209	
DNN	103	1874	246	1628	103/103 sprints pass the rule	1	Number of unique sprints (excluding the nan) in the Open- Source Project: 103  All of the 103 aprints are uniquely identified. However, there are issues that do not belong to any of these sprints, and the value reflected in the sprint field for those issues is NaN. Number of unious extrint (excluding the nan) in the Open-	
Mesos	70	1365	286	1079	70/70 sprints pass the rule	1	Number of unique sprints (excluding the nan) in the Open- Source Project: 70  All of the 70 sprints are uniquely identified. However, there are issues that do not belong to any of these sprints, and the value reflected in the sprint field for those issues is NaN.	
Mule	104	1278	120	1158	103/104 sprints pass the rule  1704 sprints fails the rule  Even though we do not have information about sprints nameful, we do have information about the unique start date of the sprint, which we can use as sprint 105/mm. However, there is 1 sprint which does not have a valid start date.	0	Number of unique sprints (excluding the nan) in the Open- source Project. 104  None from the 104 sprints is uniquely identified. One sprint out of 104 does not have a valid value. Also, there are issues that do not belong to any of these sprints, and the value reflected in the sprint field for those issues is NaN.	
Nexus	70	1037	404	633	70/70 sprints pass the rule	1	Number of unique sprints (excluding the nan) in the Open- Source Project: 70  All of the 70 sprints are uniquely identified. However, there are issues that do not belong to any of these sprints, and the value reflected in the sprint field for those issues is Nan.	
Timob	63	1853	1574	279	63/63 sprints pass the rule	1	Number of unique sprints (excluding the nan) in the Open- Source Project 63  All of the 63 sprints are uniquely identified. However, there are issues that do not belong to any of these sprints, and the value reflected in the sprint field for those issues is NaN.	
			R32 - Ti	here should be a type, such as bug, improvement of	or task, associated to each issue			
Project Name	Total Issues	Types	Types Values and their Count	Issues having no type	Percentage (Issues Unit)	Binary Output	Comments	
XD	3152	5	Story, Bug, Improvement, Technical task, Epic	0	3152/3152 issues pass pass the rule	1		
Apstud	825	6	Bug, Story, Improvement, Technical task, Epic, New Feature	0	825/825 issues pass pass the rule	1		
Tistud	2826	6	Bug, Story, Improvement, Technical task, New Feature, Sub-Task	0	2826/2826 issues pass pass the rule	I	There are 2826 values present in the issuetype.name data field.	
Mobile	3242	8	Bug, Improvement, Sub-task, New Feature, Task, Epic, Story, Release Test	0	3242/3242 issues pass pass the rule	1	Total number of issues having no issue status is: 0.  There are 3242 values present in the issuetype.name data field.	
mobile	3442	8	Release Test	U	3242/3242 issues pass pass the rule	1	Total number of issues having no issue status is: 0.	

MDL	63273	6	Bug 39732 Improvement 12343 Sub-task 4523 New Feature 3872 Task 2537 Epic 267	0	63273/63273 issues pass the rule	1	There are 63274 values present in the issuetype.name data field.  Total number of issues having no issue status is: 0.	
DNN	1874	6	Bug, Improvement, Story, Sub-task , Task, New Feature	0	1874/1874 issues pass the rule	1	Total number of issue statuses present in this Open-Source Project is: 6.  There are 1874 values present in the issuetype name data field. Total number of issues having no issue status is: 0.	
Mesos	1365	7	Bug 497 Task 408 Improvement 353 Documentation 74 Story 20 Epic 9 Wish 4	0	1365/1365 issues pass the rule	1	There are 1365 values present in the issuetype name data field.  Total number of issues having no issue status is: 0.	
Mule	1278		Bug 594 Task 274 Improvement 251 New Feature 121 Slory 32 Patch submission 2 Sub-task 2 Epic 2	0	1278/1278 issues pass the rule	1	Total number of issue statuses present in this Open-Source Project is: 8.  There are 1278 values present in the issuetype name data field.  Total number of issues having no issue status is: 0.	
Nexus	1037	s	Bug 697 Improvement 277 Story 30 Task 25 Technical Debt 8	0	1037/1037 issues pass the rule	1	There are 1037 values present in the issuetype.name data field.  Total number of issues having no issue status is: 0.	
Timob	1853	7	Bug   1141	0	1853/1853 issues pass the rule	1	There are 1853 values present in the issuetype name data field.  Total number of issues having no issue status is: 0.	
			R33 - Each issue belongs to a specific Sprint, the	erefore there should be a sprint identifier attached to	each issue.			
Project Name	Total Issues	Total Sprints	Issues Having No Sprint ID	Percentage (Issues Unit)	Binary Output	Comments		
XD	3152	66	1326	1826/3152 issues pass the rule 1326/3152 issues fail the rule	0	Total number of unique sprints present in this Open-Source Project is: 66. Total number of missing sprints present in this Open-Source Project is: 1326. Total number of unique issues present in this Open-Source Project is: 3152. Total number of missing issues present in this Open-Source Project is: 0.		
Apstud	825	34	410	415/825 issues pass the rule 410/825 issues fail the rule	0	Total number of unique sprints present in this Open-Source Project is: 34.  Total number of missing sprints present in this Open-Source Project is: 410.  Total number of unique issues present in this Open-Source Project is: 825.  Total number of missing issues present in this Open-Source Project is: 0.		
Tistud	2826	59	1089	1737/2826 issues pass the rule 1089/2826 issues fail the rule	0	Total number of unique sprints present in this Open-Source Project is: 59. Total number of missing sprints present in this Open-Source Project is: 180. Total number of unique issues present in this Open-Source Project is: 2826. Total number of missing issues present in this Open-Source Project is: 0.		
Mobile	3242	23	2032	1210/3242 issues pass the rule 2032/3242 issues fail the rule	0	Total number of unique sprints present in this Open-Source Project is: 23. Total number of missing sprints present in this Open-Source Project is: 2032. Total number of unique issues present in this Open-Source Project is: 3242. Total number of missing issues present in this Open-Source Project is: 0.		
MDL	63273	269	60539	2734/63273 issues pass the rule 60539/63273 issues fail the rule	0	Total number of unique sprints present in this Open-Source Project is: 269 Total number of missing sprints present in this Open-Source Project is: 60540. Total number of unique issues present in this Open-Source Project is: 63273. Total number of missing issues present in this Open-Source Project is: 1.		
DNN	1874	103	246	1628/1874 issues pass the rule 246/1874 issues fail the rule	0	Total number of unique sprints present in this Open-Source Project is: 103.  Total number of missing sprints present in this Open-Source Project is: 246.  Total number of unique issues present in this Open-Source Project is: 1874.  Total number of missing issues present in this Open-Source Project is: 0.		
Mesos	1365	70	286	1079/1365 issues pass the rule  286/1365 issues fail the rule  1167/1287 issues pass the rule, out of which:	0	Total number of unique sprints present in this Open-Source Project is: 70 Total number of missing sprints present in this Open-Source Project is: 286. Total number of unique issues present in this Open-Source Project is: 365. Total number of missing issues present in this Open-Source Project is: 30.		
Mule	1278	104	120	11/1167 issues have no valid value in the sprint field  120/1287 issues fail the rule	0	Total number of unique sprints present in this Open-Source Project is: 104.  Total number of missing sprints present in this Open-Source Project is: 120.  Total number of unique issues present in this Open-Source Project is: 1278.  Total number of missing issues present in this Open-Source Project is: 0.		
Nexus	1037	70	404	633/1037 issues pass the rule 404/1037 issues fail the rule	0	Total number of unique sprints present in this Open-Source Project is: 70. Total number of missing sprints present in this Open-Source Project is: 404. Total number of unique issues present in this Open-Source Project is: 1037. Total number of missing issues present in this Open-Source Project is: 0.		
Timob	1853	63	1574	279/1853 issues pass the rule 1574/1853 issues fail the rule	0	Total number of unique sprints present in this Open-Source Project is: 63. Total number of missing sprints present in this Open-Source Project is: 1574. Total number of misque issues present in this Open-Source Project is: 1873. Total number of missing issues present in this Open-Source Project is: 0. Total number of instein Source prosent in this Open-Source Project is: 0. Total number of issues belonging to no sprints is: 1574. The results indicate that the Timob Project was not a fan of Sprints, since they		
						did not incorporate Sprints in their agile work that much.		
			R34 - All issues must be uniquely identifiable, there	for the should be a union identifier		<u></u>		
Project Name	Total Issues	Total Sprints	Empty issue IDs/keys	Percentage (Issues Unit)	Binary Output	Comments  Total number of unique issues present in this Open-Source Project is: 3152		
XD	3152	66	0	3152/3152 issues pass the rule	1	Total number of unique issues present in this Open-Source Project is: 3152.  Total number of issues having no issue IDs in this Open-Source Project is: 0.  Total number of issues the state of the control of the contr		
Apstud	825	34	0	825/825 issues pass the rule	1	Total number of unique issues present in this Open-Source Project is: 825. Total number of missing issues present in this Open-Source Project is: 0. Total number of missing issues present in this Open-Source Project is: 0.		
Tistud	2826	59	0	2826/2826 issues pass the rule	1	Total number of unique issues present in this Open-Source Project is: 2826. Total number of missing issues present in this Open-Source Project is: 0.  Total number of missing issues present in this Open-Source Project is: 0.  Total number of missing issues present in this Open-Source Project is: 0.  Total number of unique issues present in this Open-Source Project is: 2826.		
Mobile	3242	23	0	3242/3242 issues pass the rule	1	Total number of issues present in this Open-Source Project is: 3242. Total number of missing issues present in this Open-Source Project is: 0. Total number of sprints present in this Open-Source Project is: 23. Total number of sprints present in this Open-Source Project is: 23. Total number of missing sprint IDs present in this Open-Source Project is: 2032.		
MDL	63273	269	1	63272/63273 issues pass the rule 1/63273 issues fail the rule	0	Total number of issues present in this Open-Source Project is: 63273.  Total number of missing issues present in this Open-Source Project is: 1.  Total number of project present in this Open-Source Project is: 269.		
MDL	63273	269	1	1/63273 issues fail the rule	0	Total number of sprints present in this Open-Source Project is: 269.  Total number of missing sprint IDs present in this Open-Source Project is: 60540.		

				R37 - There should be a minimum of				
Timob	2012 Sprint 20	63	N/A	N/A	N/A	This rule is not applicable for this project, because we d	to not have the needed information.	
Nexus	32.496-05:00 Sprint 68 - Föhn	70	N/A	N/A	N/A	We only have information about start date of t This rule is not applicable for this project, because we d		
Mule	startDute=2016-04-27T11:27: 32.496-05:00	104	N/A	N/A	N/A	This rule is not applicable for this project, because we d	lo not have the needed information.	
DNN Mesos	Sprint 2; Content 8.1.0 - Sprint 3 Mesosphere Sprint 34	103 70	N/A N/A	N/A N/A	N/A N/A	This rule is not applicable for this project, because we d This rule is not applicable for this project, because we d	to not have the needed information.	
MDL	Toom attassian greenhopper service spirit spirit@fe9953afa [lid246.rapidVlewid=115, state=CLOSED, namesilentationals - 3.8 Alpha, startDate=2018-10-08102-30. 00002, completeDate=2019-12-02105: 32-44.1302.sequenc=246, goal=Feature completeOil	269	0	269/269 sprints pass the rule	ı	There is no sprint that has a null value Also checked manually for all sprints' start dates and all 269 have a time	estamp indicating the start date of the given sprint.	
Mobile	Tcom.atlassian.greenhopper.sevice.aprint.Sprint@40c6bBas  icl=237.grpit/leveids=128, states=ACTIVE.name=Moodle 3.9 - Mopples Kanban, startibate=2019-015713-49- 00.0002_centDate=2019-10- 3114-48-00.0002, completeDate=enul>]T Tcom.atlassian.greenhopper.	23	0	23/23 sprints pass the rule	1	Sample end date for this project: endDate=2018-11-06706-39-0.000 There are 23 sprints in this project, and for each of bem we have the end date and belong to any sprints, which in the data is refl-	OZ_completeDate=2019-02-07T11.09-45 209Z_ completion date. However, there are many issues that do not ceted as the NaN sprint.	
Apstud Tistud	2012 Sprint 15 2012 Sprint 18 "Toom atlassian greenhooper.	34 59	N/A N/A	N/A N/A	N/A N/A	This rule is not applicable for this project, because we d This rule is not applicable for this project, because we d	lo not have the needed information.  lo not have the needed information.	
Project Nam XD	Sprint Sample Value Sprint 68	Total Sprints 66	Sprints having no End Date	Percentage (Sprint Unit)	Binary Output	Comments  This rule is not applicable for this project, because we d	to not have the needed information.	
			R36 - Scrum Sprints have a completion time. There		on/resolution.			
Timob	2012 Sprint 20	63	N/A	N/A	N/A	This rule is not applicable for this project, because we d  This rule is not applicable for this project, because we d	to not have the needed information.	
Nexus	32.496-05:00 Sprint 68 - Föhn	70	startDate= <null> N/A</null>	1/104 spritns fails the rule N/A	N/A	start date. There are also 47 issues that belong to no sprints, and thi  This rule is not applicable for this project, because we d		
Mesos	startDate=2016-04-27T11-27-	70	N/A I	N/A 103/104 spritns pass the rule	N/A 0	This rule is not applicable for this project, because we d  There are 104 sprints, out of which 103 have a valid timestamp indicating the beg start date. There are also 47 issues that belong to no sprints, and thi		
DNN Mesos	goal=Feature completion[7] Sprint 2; Content 8.1.0 - Sprint 3 Mesosphere Sprint 34	103	N/A N/A	N/A N/A	N/A N/A	This rule is not applicable for this project, because we d	to not have the needed information.	
MDL	Tcom.atlassian.greenhopper.service.sprint.Sprint@e9955a6a   id=246.rapit/lewide=115 state=CLOSED, state=CLOSED, name=Internationals - 3.8 Alpha, startDate=2019-10-08T02-30: 06.3852_extDate=2019-10-02T05: 32-44.1302_sequence=246, goal=Feabare completion[T]	269	0	269/269 sprints pass the rule	T.	There is no sprint that has a smill value.  Also checked manually for all sprints stort dates and all 269 have a time.	for the start date.  estamp indicating the start date of the given sprint.	
Mobile	"(com atlassian greenhopper: service sprint Sprint@40ct8bas (er227 papid)weider 120, saa 39 - Moopher Kareban, satrDase2019-09-16113-49: 00.0002.excDase2019-10- completeDate=cruity- sequence=237.goals=cruits]"	23	0	23/23 sprints pass the rule	ı	There are 23 sprints in this project, and for each of them we have the start date.  sprints, which in the data is reflected a	However, there are many issues that do not belong to any the NaN sprint.	
Apstud Tistud	2012 Sprint 15 2012 Sprint 18	34 59	N/A N/A	N/A N/A	N/A N/A	This rule is not applicable for this project, because we d This rule is not applicable for this project, because we d	to not have the needed information.  In not have the needed information.	
XD	Sprint 68	66	N/A N/A	N/A	N/A N/A	This rule is not applicable for this project, because we d	lo not have the needed information.	
Project Nam	Sprint Sample Value	Total Sprints	Sprints having no Start Date	Percentage (Sprint Unit)	Binary Output	Comments		
			R35 - Scrum Sprints have a starting time. T	There should be timestamp indicating the sprints kic	k-off.			
						clearer data and better insights.		
Timob	1853	63	0	1853/1853 issues pass the rule	I	1574.  Most of the sprints have low number of issues resolved in them. The team pechags did not correctly mapped the issues into the sprint they were completed in a fira, and perhaps the issues actually were resolved in one of these valid 63 sprints. This is another remark for fittine, that aghe teams need to use Jira correctly and map out all activities related to the issues in order for us to have cleared data and better misights.		
						Total number of missing sprint IDs present in this Open-Source Project is: 404 Total number of issues present in this Open-Source Project is: 1853. Total number of missing issues present in this Open-Source Project is: 1853. Total number of sprints present in this Open-Source Project is: 63. Total number of sprints present in this Open-Source Project is: 63. Total number of missing sprint IDs present in this Open-Source Project is: 1574.		
Nexus	1037	70	0	1037/1037 issues pass the rule	1	Total number of issues present in this Open-Source Project is: 1037.  Total number of missing issues present in this Open-Source Project is: 0.  Total number of sarints present in this Open-Source Project is: 70.		
Mule	1278	104	0	1278/1278 issues pass the rule	1	Total number of issues present in this Open-Source Project is: 1278. Total number of missing issues present in this Open-Source Project is: 0. Total number of sprints present in this Open-Source Project is: 104. Total number of missing sprint IIDs present in this Open-Source Project is: 120.		
Mesos	1365	70	0	1365/1365 issues pass the rule	1	Total number of issues present in this Open-Source Project is: 1365. Total number of missing issues present in this Open-Source Project is: 0.  Total number of sprints present in this Open-Source Project is: 70. Total number of missing sprint IDs present in this Open-Source Project is: 286.		
DNN	1874	103	0	1874/1874 issues pass the rule	1	Total number of sprints present in this Open-Source Project is: 103.  Total number of missing sprint IDs present in this Open-Source Project is: 246.		
	1874	103				Total number of issues present in this Open-Source Project is: 1874.  Total number of missing issues present in this Open-Source Project is: 0.		

MDL	63273	269	1	129	0	269/269 sprints pass the rule	1	
DNN	1874	103	1	91	0	103/103 sprints pass the rule	1	There are many sprints having only 1 issue completed in them! 21/103 sprints have only 1 issue completed during the sprint. This project generally has low PBIs per sprints.
Mesos	1365	70	1	69	0	70/70 sprints pass the rule	1	N/A
Mule	1278	104	1	43	0	104/104 sprints pass the rule	1	
Nexus	1037	70	1	42	0	70/70 sprints pass the rule	1	This project generally has low PBIs per sprints.
Timob	1853	63	1	37	0	63/63 sprints pass the rule	1	This project generally has low PBIs per sprints.
						63/63 sprints pass the rule		There are 24 sprints that only have 1 issue resolved in them!

			D38 - There should be timestry	np indicating the issue development kick-off.	
				1	
Project Name	Total Issues	Issues having no Start Date	Percentage (Issues Unit)	Binary Output	Comments
XD	3152	O	3152/3152 issues pass the rule	1	Total number of issues in the Open-Source Project are 3152.  Total number of unique issues (excluding anai) in the Open-Source Project are 3152.  Total number of source project are 3152.  In case of duplicate issues, the duplicates will be removed! However, this step was already performed in the data cleaning part.  Total number of issues having no created due is: 0.
Apstud	825	0	825/825 issues pass the rule	1	Total number of issues in the Open-Source Project are \$25.  Total number of missing values in the "keyt" column in the Open-Source Project: 0.  Total number of issues having no created date is: 0.
Tistud	2826	0	2826/2826 issues pass the rule	1	Total number of issues in the Open-Source Project are 2826.  The new Open-Source Project are 2826.  Total number of insisting values in the "key" column in the Open-Source Project: 0. Total number of issues having no recated date is: 0.
Mobile	3242	0	3242/3242 issues pass the rule	1	Total number of issues in the Open-Source Project are: 3242.  Total number of unique issues (excluding nam) in the Open-Source Project are: 3242.  Total number of missing values in the "key" column in the Open-Source Project: 0.  Total number of issues having no created date is: 0.
MDL	63273	0	63273/63273 issues pass the rule	1	Total number of issues in the Open-Source Project are: 62273.  Total number of missing values in the *Ley* column the Open-Source Project: 1.  Total number of issues having no created date is: 0.  Even the Issue which does not have an Diamne; it has been created and records a creation date.
DNN	1874	0	1874/1874 issues pass the rule	1	even ne : stone wither forces hot relive an Lishtaner, it also cent revisione and receives an extension same.  Total number of susues in the Open-Source (Properture 1874).  Total number of missing values in the "Spe-Source (Properture 1874).  Total number of missing values in the "Spe-Youlems in the Open-Source Project: 0.  Total number of missing values in the "Spe-Youlems in the Open-Source Project: 0.
Mesos	1365	0	1365/1365 issues pass the rule	1	Total number of issues having no created date is: 0.
Mule	1278	0	1278/1278 issues pass the rule	1	Total number of issues in the Open-Source Project are: 1278.  Total number of missing values in the "key" cloumn in the Open-Source Project: 0.  Total number of issues waving no created date is: 0.
Nexus	1037	0	1037/1037 issues pass the rule	1	Total number of issues in the Open-Source Project are: 1037.  Total number of missing values in the "key" column in the Open-Source Project: 0.  Total number of issues waving no created date is: 0.
Timob	1853	0	1853/1853 issues pass the rule	1	Total number of issues in the Open-Source Project are: 1853.  Total number of missing values in the "keyt" column in the Open-Source Project: 0.  Total number of issues having no created date is: 0.

	R39 - There should be finestamp indicating the issue development completion.									
Project Name	Total Issues	Issues having no End Date	Percentage (Issues Unit)	Binary Output	Comments					
XD	3152	574	2578/3152 issues pass the rule 574/3152 issues fail the rule	0	Total number of issues in the Open-Source Project are 3152.  There are 0 issue duplicated?  Total number of missing values in the *lesy* column in the Open-Source Project: 0.  Total number of oissues having no end date is 574.					
Apstud	825	237	588/825 issues pass the rule 237/825 issues fail the rule	0	Total number of issues in the Open-Source Project are £25.  There is used unificate!  Total number of missing values in the *key* column in the Open-Source Project: 0.  Total number of of issues having no end date is: 237.					
Tistud	2826	198	2628/2826 issues pass the rule 198/2826 issues fail the rule	0	Total number of issues in the Open-Source Project are: 2826. There are: 0 issue duplicates! Total number of issues baving no end date is: 198.					
Mobile	3242	359	2883/3242 issues pass the rule 359/3242 issues fail the rule	0	Total number of issues having no end date is: 359.					
MDL	63273	10285	52988/63273 issues pass the rule 10285/63273 issues fail the rule	0	Total number of issues in the Open-Source Project are: 63273.  Total number of missing values in the "key" column in the Open-Source Project: 1.  Total number of issues having no end date is: 10285.					
DNN	1874	104	1770/1874 issues pass the rule 104/1874 issues fail the rule	0	Total number of issues in the Open-Source Project are: 1874.  Total number of unique issues (excluding nan) in the Open-Source Project are: 1874.  Total number of issues baving no end date is: 104.					
Mesos	1365	277	1088/1365 issues pass the rule 277/1365 issues fail the rule	0	Total number of issues having no end date is: 277.					
Mule	1278	78	1209/1287 issues pass the rule 78/1287 issues fail the rule	0	Total number of issues in the Open-Source Project are: 1278.  Total number of issues having no end date is: 78.					
Nexus	1037	42	995/1037 issues pass the rule 42/1037 issues fail the rule	0	Total number of issues in the Open-Source Project are: 1037 Total number of missing values in the *lsg* clum in the Open-Source Project: 0. Total number of issues having no end date is: 42.					
Timob	1853	174	1679/1835 issues pass the rule 174/1853 issues fail the rule	0	This project has the lowest number of incomplete issues, proportionally to the number of total issues among all projects  Total number of issues in the Open-Source Project are: 1853.  Total number of issues having no end didate is: 174.					