



CRESTA Use Cases

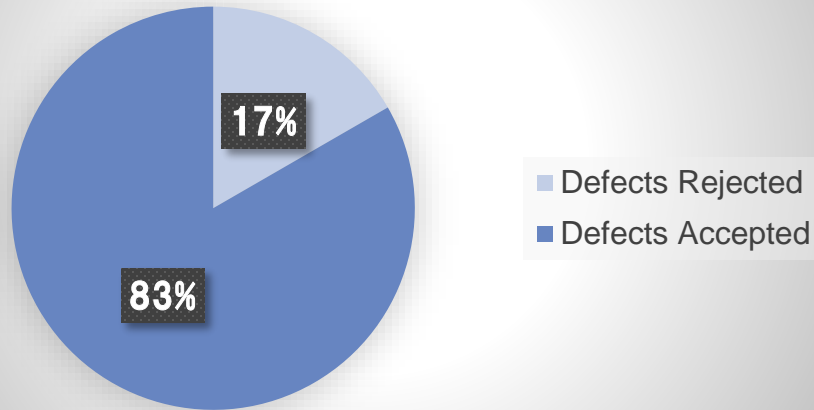
Oct – Nov, 2016

BoA 1 – Prediction of software quality

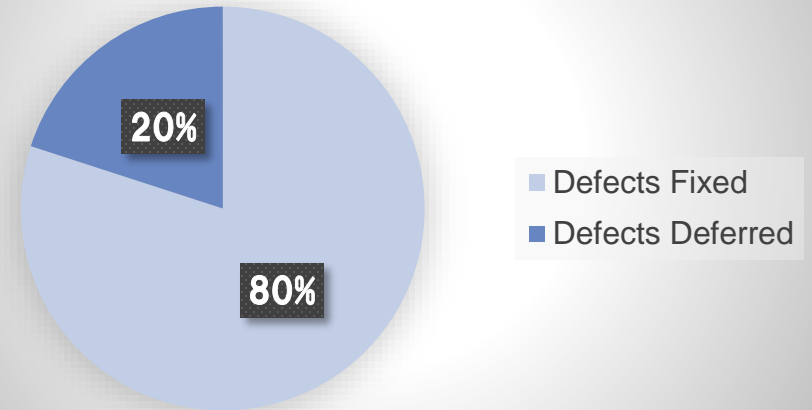
October, 2016

Use Case No.	Role	Question	Use Case Name
MVP¥1	Test Lead	What will be the defect density in future?	Predict defect metrics
1A	Test Lead	What will be the defect acceptance rate in future?	Predict defect metrics
1B	Test Lead	What will be the defect deferral rate in future?	Predict defect metrics
1C	Test Lead	What will be the overall defects count in future?	Predicted All Defects vs. Actual All Defects
1D	Test Lead	What will be the functional defects count in future?	Predicted Functional Defects vs. Actual Functional Defects.

QAT Defects



Defects Accepted



Machine Learning Algorithm :

1. Linear Regression

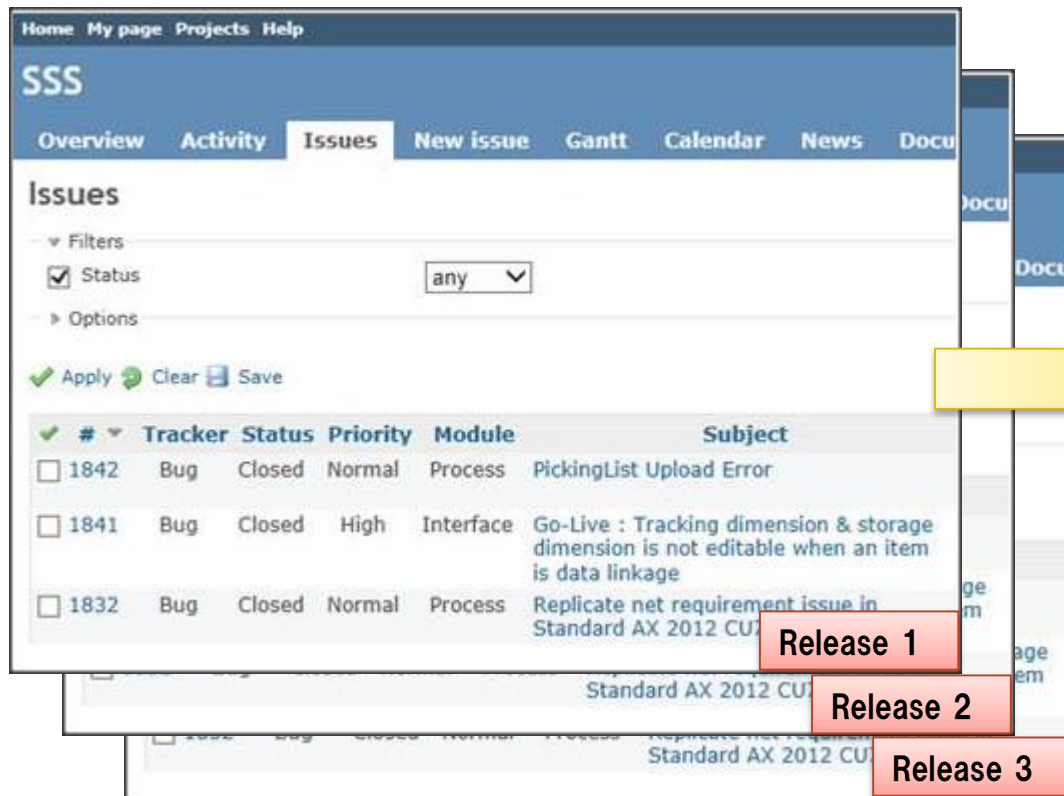
Linear Regression algorithm shows the relationship between 2 variables and how the change in one variable impacts the other. The algorithm shows the impact on the dependent variable on changing the independent variable.

Predictors – Parameters that decide predicted values

Predictors	Defect Metrics	BoA 1A	BoA 1B	BoA 1C	BoA 1D
		Defect Acceptance Rate	Defect Deferral Rate	All Defects	Functional Defects
KLOC		✓	✗	✓	✓
Test case count		✓	✗	✓	✓
Application Complexity		✓	✗	✓	✓
Domain knowledge		✓	✗	✓	✓
Technical Skills		✓	✗	✓	✓
Requirements Query count		✓	✗	✓	✓
Code review comments		✓	✗	✓	✓
Design review comments		✓	✗	✓	✓
Defect Severity		✗	✓	✗	✗
Defect Priority		✗	✓	✗	✗
Effort to fix defect		✗	✓	✗	✗
Cost to fix defect		✗	✓	✗	✗
Availability of Budget to fix defect		✗	✓	✗	✗
Feasibility within milestone		✗	✓	✗	✗
Complexity of defect fix		✗	✓	✗	✗
Impact of defect fix		✗	✓	✗	✗

Trend Parameters
Sprint
Release
Module
Week
Month
Quarter
Year

What will be the defect density in future?



Home My page Projects Help

SSS

Overview Activity **Issues** New issue Gantt Calendar News Docu

Issues

Filters

☒ Status any

Options

Apply Clear Save

	#	Tracker	Status	Priority	Module	Subject
<input type="checkbox"/>	1842	Bug	Closed	Normal	Process	PickingList Upload Error
<input type="checkbox"/>	1841	Bug	Closed	High	Interface	Go-Live : Tracking dimension & storage dimension is not editable when an item is data linkage
<input type="checkbox"/>	1832	Bug	Closed	Normal	Process	Replicate net requirement issue in Standard AX 2012 CU

Release 1

Release 2

Release 3

Historical defects data release wise

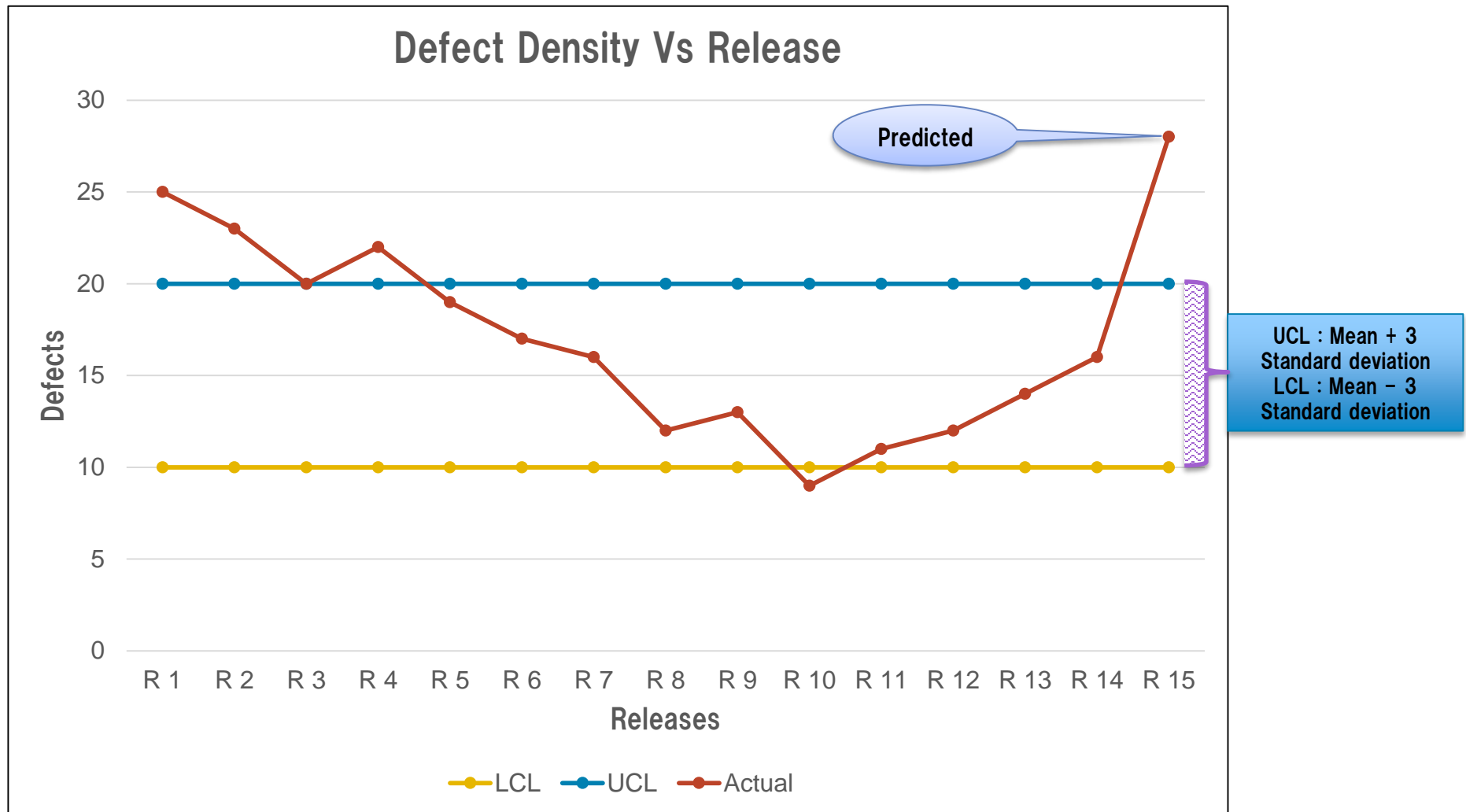
Project:

Prediction:

Trend:

Test lead clicks Predict to view prediction

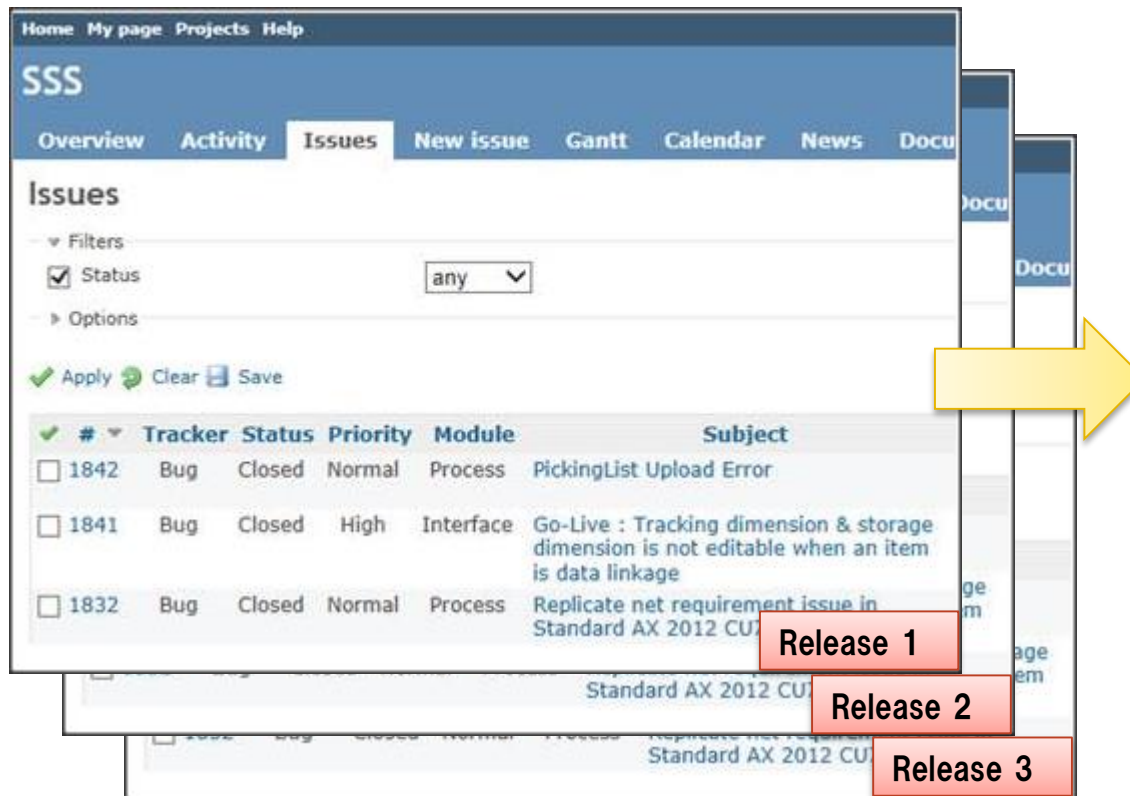
MVP ¥ 1 – Predict defect density



Note – Test lead will analyze based on above predictions

1A – Predict defect acceptance rate

What will be the defect acceptance rate in future?



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Overview Activity Issues New issue Gantt Calendar News Docu

Issues

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☒ Status any

Options

Apply Clear Save

	#	Tracker	Status	Priority	Module	Subject
<input type="checkbox"/>	1842	Bug	Closed	Normal	Process	PickingList Upload Error
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Release 1

Release 2

Release 3

Historical defects data release wise

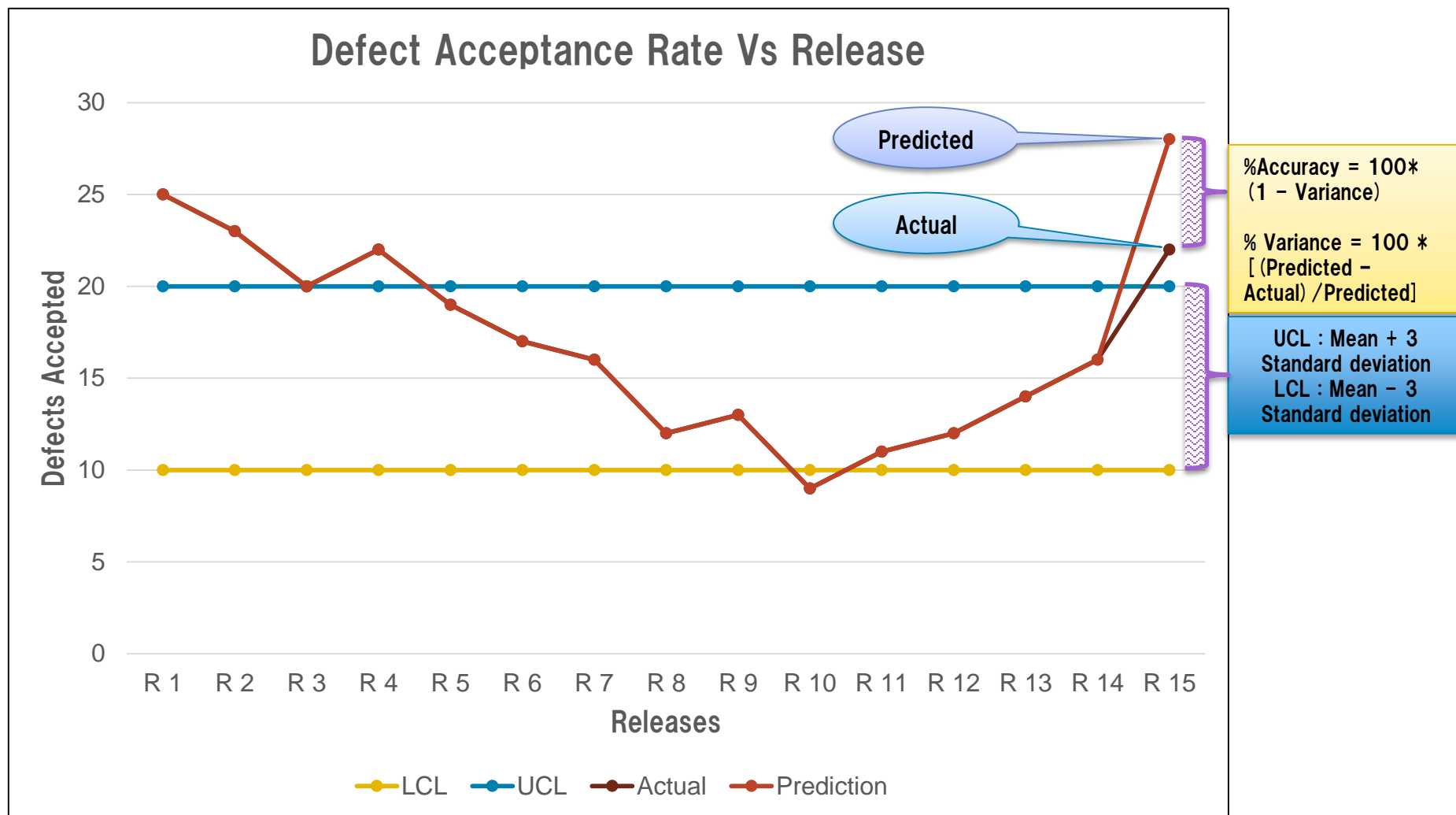
Project:

Prediction:

Trend:

Test lead clicks Predict to view prediction

1A – Predict defect acceptance rate



Note – Test lead will analyze based on above predictions

1B – Predict defect deferral rate

What will be the defect deferral rate in next release?

The image shows a screenshot of a web application interface for 'SSS'. At the top, there is a navigation bar with links: 'Home', 'My page', 'Projects', and 'Help'. Below this is a sub-navigation bar with tabs: 'Overview', 'Activity', 'Issues' (which is selected), 'New issue', 'Gantt', 'Calendar', 'News', and 'Docu'. The main content area is titled 'Issues'. It features a 'Filters' section with a checked 'Status' filter set to 'any' and an 'Options' section. Below the filters are buttons for 'Apply', 'Clear', and 'Save'. A table of issues is displayed with columns: '#', 'Tracker', 'Status', 'Priority', 'Module', and 'Subject'. The table contains three rows of data. A large yellow arrow points from the right side of the table towards a prediction form on the right edge of the image. The prediction form has three red boxes labeled 'Release 1', 'Release 2', and 'Release 3'.

Home My page Projects Help

SSS

Overview

Activity

Issues

New issue

Gantt

Calendar

News

Docu

Issues

▼ Filters

☒ Status

any ▼

► Options

☒ Apply ☐ Clear

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Release 1

Release 2

Release 3

Release 1

Release 2

Release 3

Project:

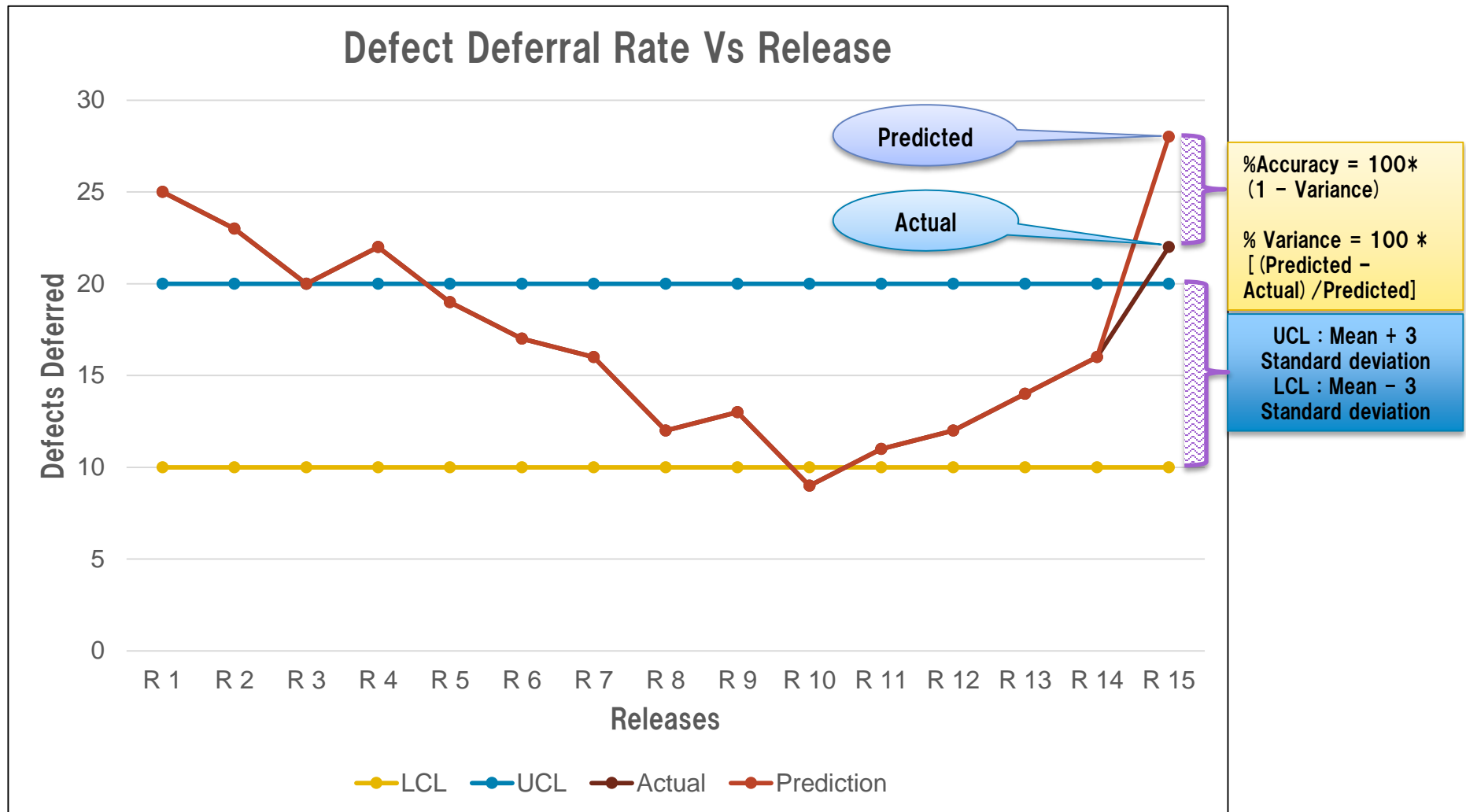
Prediction:

Trend:

Test lead clicks Predict to view prediction

Historical defects data release wise

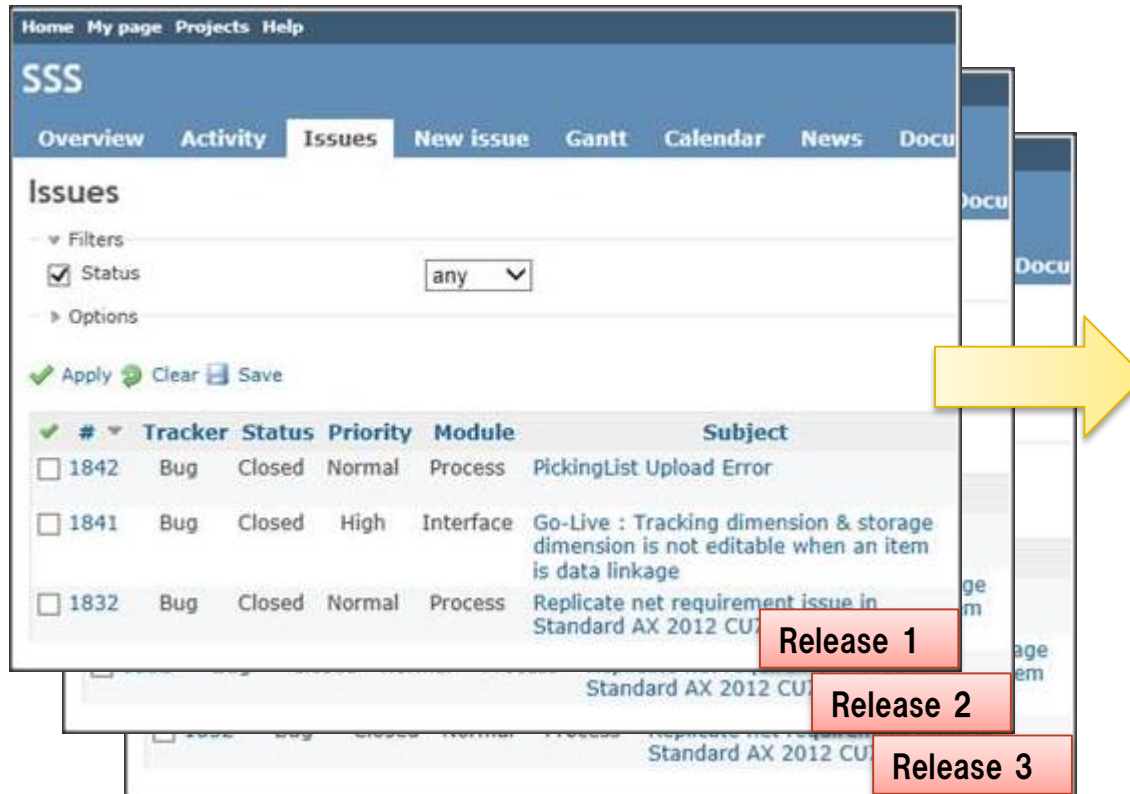
1B – Predict defect deferral rate



Note – Test lead will analyze based on above predictions

1C – Predicted all defects vs. Actual all defects

What will be the overall defects count in future?



The screenshot shows the 'Issues' tab in the SSS application. It includes a filter for 'Status' set to 'any' and a table of defects. A yellow arrow points from the table to the prediction form on the right.

#	Tracker	Status	Priority	Module	Subject
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1841	Bug	Closed	High	Interface	Go-Live : Tracking dimension & storage dimension is not editable when an item is data linkage
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Release 1
Release 2
Release 3

Project:

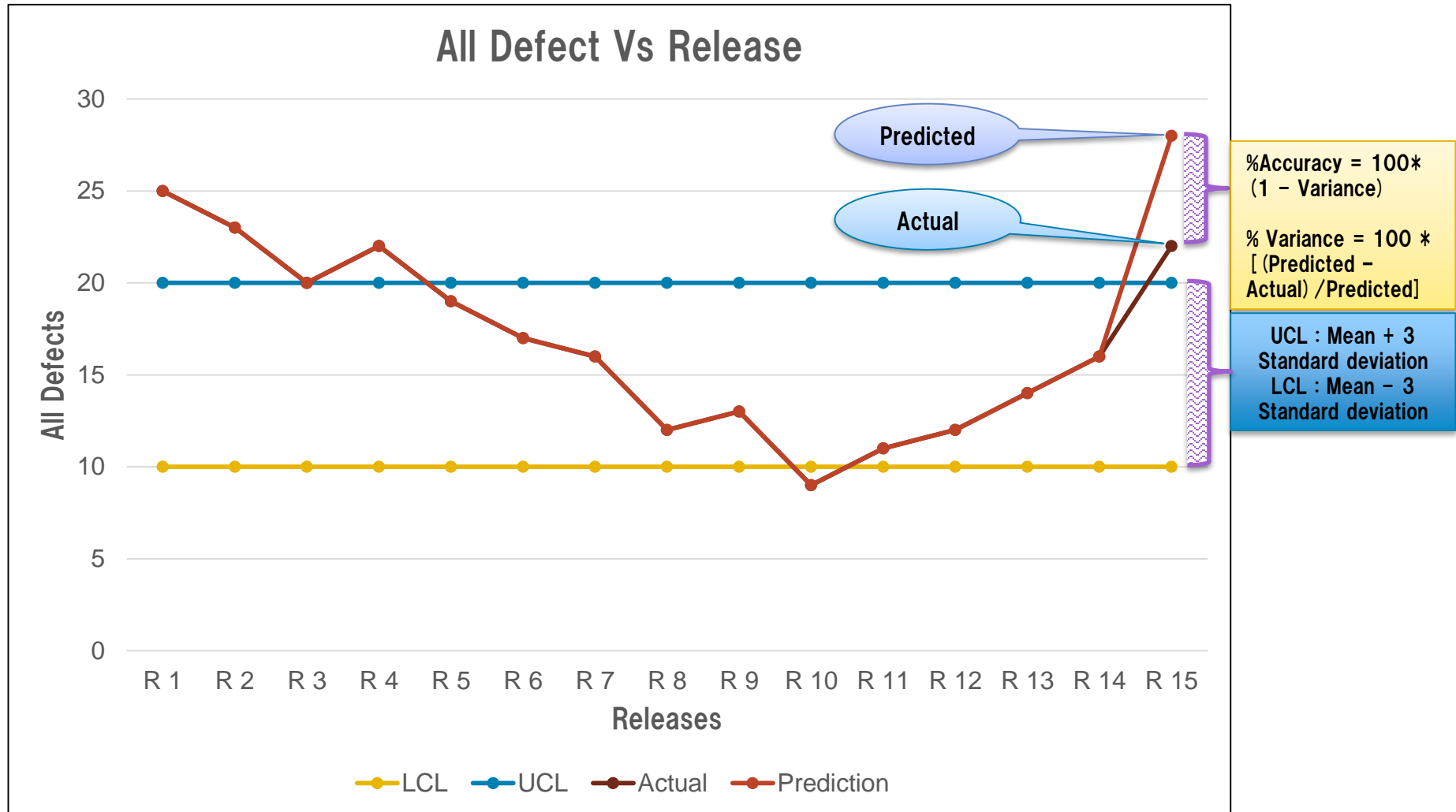
Prediction:

Trend:

Test lead clicks Predict to view prediction

Historical defects data release wise

1C – Predicted all defects vs. Actual all defects



Note – Test lead will analyze based on above predictions

What will be the functional defects count in future?

The image shows a screenshot of a web application interface for 'SSS'. At the top, there is a navigation bar with links: 'Home', 'My page', 'Projects', and 'Help'. Below this is a sub-navigation bar with tabs: 'Overview', 'Activity', 'Issues' (which is selected), 'New issue', 'Gantt', 'Calendar', 'News', and 'Docu'. The main content area is titled 'Issues'. It features a 'Filters' section with a checked 'Status' filter set to 'any' and an 'Options' section. Below these are 'Apply', 'Clear', and 'Save' buttons. A table of issues is displayed with columns: '#', 'Tracker', 'Status', 'Priority', 'Module', and 'Subject'. The table contains three rows of data. A large yellow arrow points from the table area towards the right, where three overlapping red boxes are visible, labeled 'Release 1', 'Release 2', and 'Release 3'.

Home My page Projects Help

SSS

Overview

Activity

Issues

New issue

Gantt

Calendar

News

Docu

Issues

▼ Filters

☒ Status

any

► Options

Apply Clear Save

✓ # ▼	Tracker	Status	Priority	Module	Subject
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<input type="checkbox"/> 1832	Bug	Closed	Normal	Process	Replicate net requirement issue in Standard AX 2012 CU

Release 1

Release 2

Release 3

Release 1

Release 2

Release 3

Project:

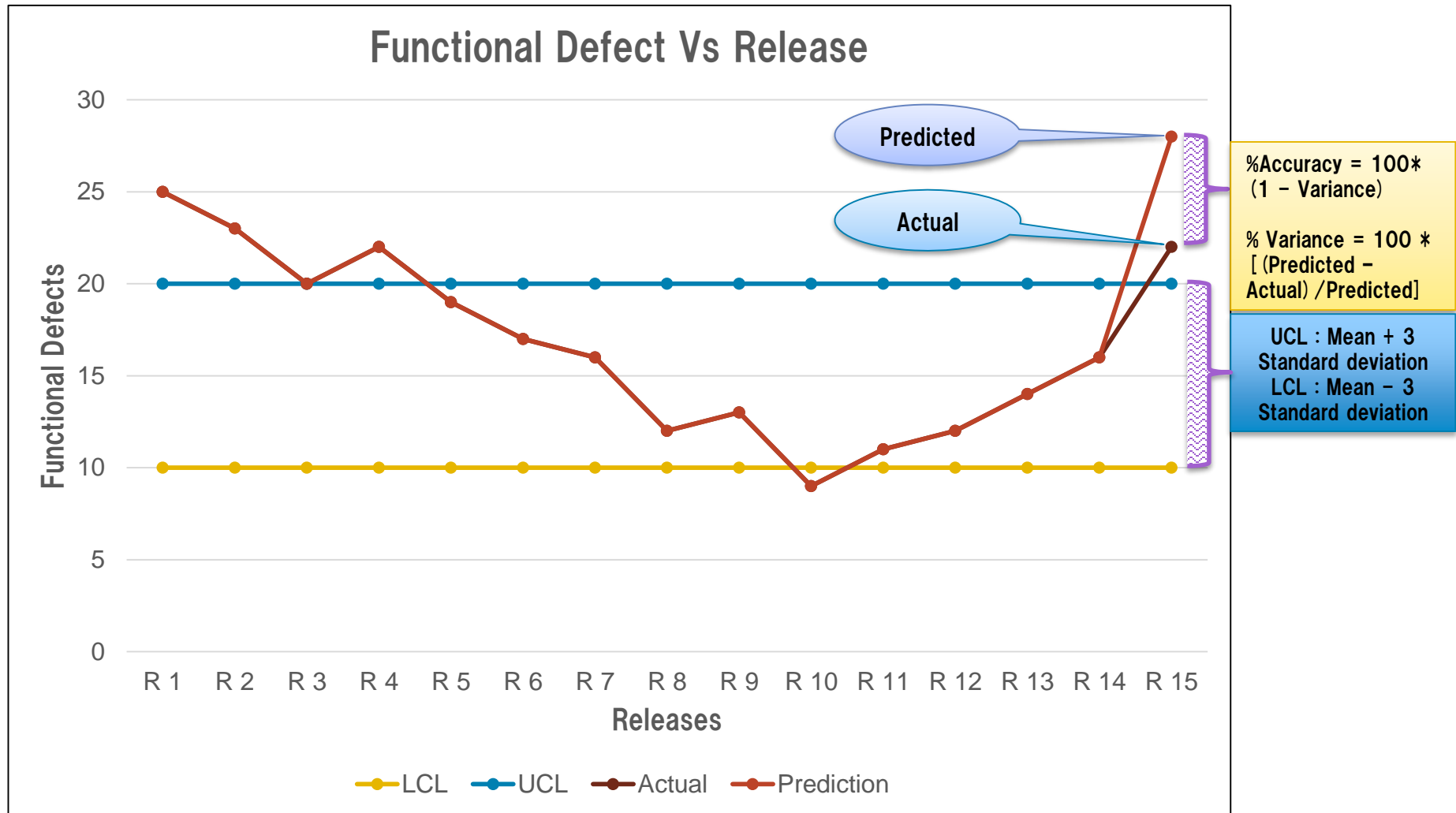
Prediction:

Trend:

Test lead clicks Predict to view prediction

Historical defects data release wise

1D – Predicted functional defects vs. Actual functional defects



Note – Test lead will analyze based on above predictions

BoA 2 – Optimization of Test cases

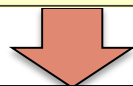
November, 2016

Use Case No.	Role	Question	Use Case Name
MVP	Test Manager	What is the percentage of functional test cases?	Segregate Test Cases
2	Test Lead	How much Testing Overlap is there in module 1?	Identify Testing Overlaps
2A	Test Manager	Is there any redundancy in testing efforts across modules?	Reduce duplicate testing efforts across modules.

MVP - Classify and Segregate Test cases

Test Cases

Test Case Reference ID	Test Scenario	Precondition	Test Case Description	Test Step	Test Case	Expected Results
1	User successfully predicts Defect Density Release Wise.	1.User has logged into the system with TL/PM Role and is on the home page. 2.CRESTA is connected to external defect repository Red mine	This is to verify that the TL user can predict using CRESTA as per the Prediction "Defect Density" and Trend "Release" selected	1	TL user goes to "Home" page to input prediction conditions.	On load of the Home page, system loads following data 1. Project dropdown with project list from the database applicable (accessible) to logged in User 2. Prediction Questions dropdown with prediction questions. 3. Trend Parameters dropdown is populated with either or both of the values "Release wise" and "Module wise" depending upon the prediction question selected.
				2	TL User selects project	Single project gets selected
				3	TL User selects "Defect Density" as prediction question	The prediction question "Defect Density" should get displayed
				4	TL User selects "Release" as trend parameter	The trend parameter "Release" should get displayed.



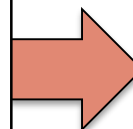
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[Test Optimization](#)
[Test Coverage](#)
[Adaptive Planning](#)

Test Optimization

Project:

Module: ☒ Module 1 ☐ Module 3
☐ Module 2 ☐ Module 4

Optimization:



Test Optimization

Project - ABC Module - 1

☒ Test case Type
☒ Automated
☐ Scenario Type

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Project - ABC Module - 1

Classification & Segregation of test cases

Automated

▼ Automated	▼ Manual
TC0012	TC0045
TC0111	TC0123
TC0188	TC0356
TC0656	TC04412

Export

Test case Type

▼ Functional	▼ Usability	▼ Performance	▼ DB
TC0012	TC0045	TC0155	TC0456
TC0111	TC0123	TC0589	TC0328
TC0188	TC0356	TC0845	TC0578
TC0656	TC0412	TC0725	TC0752

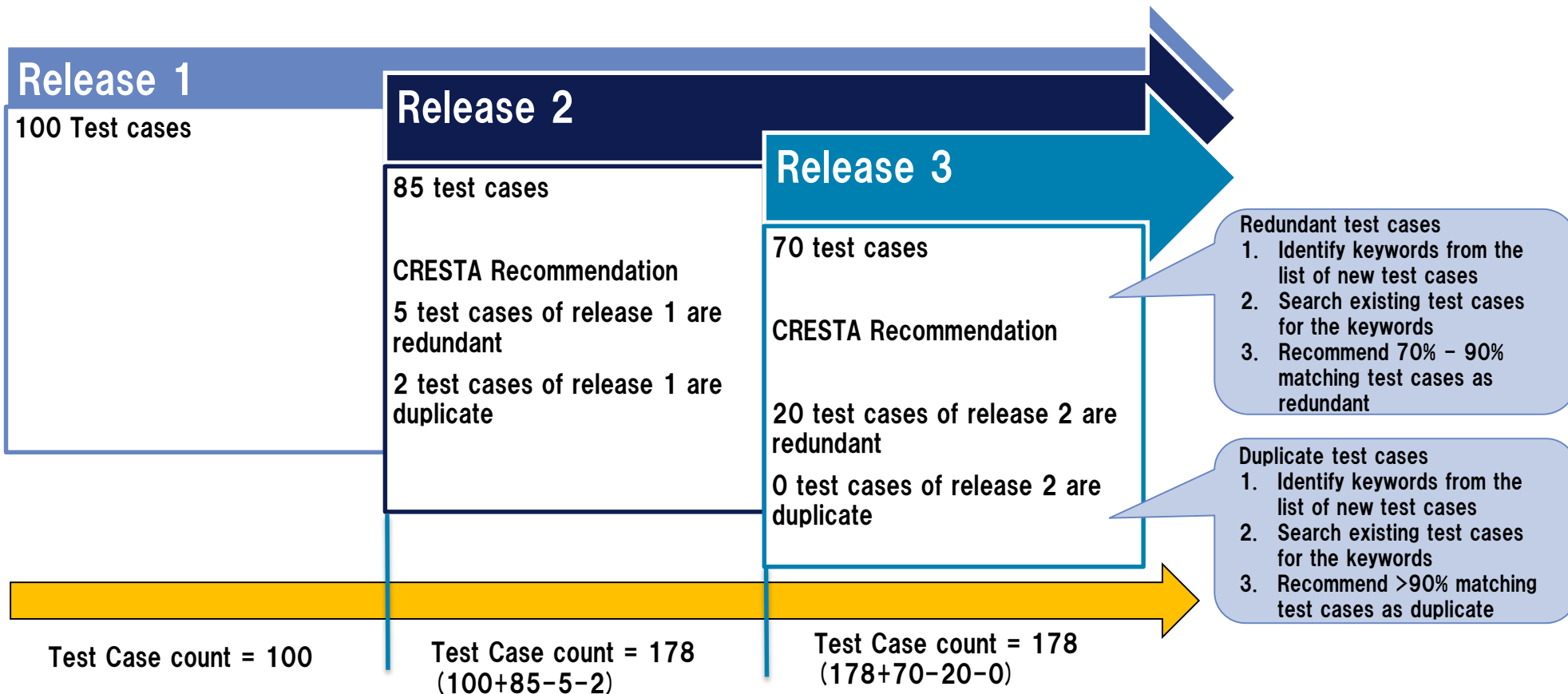
Export

Scenario Type

▼ Positive	▼ Negative
TC0312	TC0041
TC0411	TC0143
TC0184	TC0326
TC0676	TC0422

Export

Use case BoA 2 – Identify testing overlaps



Before increasing test suite size, CRESTA will identify & recommend to eliminate duplicate & redundant test cases with the help of text analytics classification algorithms of machine learning
Accomplished by comparing new test cases (current release n) with existing suite of test cases (up to previous release n-1)

Reference: <http://www0.cs.ucl.ac.uk/staff/M.Harman/stvr-shin-survey.pdf>, Section 2.1 & 2.2

Use case BoA 2 – Identify testing overlaps

Test Cases

Test Cases								
								Expected Results
Test Case Reference ID	Test Scenario	Precondition	Test Case Description	Test Step	Test Case	Expected Results		
1	User successfully predicts Defect Density Release Wise.	1.User has logged into the system with TL/PM Role and is on the home page. 2.CRESTA is connected to external defect repository Red mine	This is to verify that the TL user can predict using CRESTA as per the Prediction "Defect Density" and Trend "Release" selected	1	TL user goes to "Home" page to input prediction conditions.	On load of the Home page, system loads following data 1. Project dropdown with project list from the database applicable (accessible) to logged in User 2. Prediction Questions dropdown with prediction questions. 3. Trend Parameters dropdown is populated with either or both of the values "Release wise" and "Module wise" depending upon the prediction question selected.	e" page	On load of the Home page, system loads following data 1. Project dropdown with project list from the database applicable (accessible) to logged in User 2. Prediction Questions dropdown with prediction questions. 3. Trend Parameters dropdown is populated with either or both of the values "Release wise" and "Module wise" depending upon the prediction question selected.
				2	TL User selects project	Single project gets selected	ct	Single project gets selected
				3	TL User selects "Defect Density" as prediction question	The prediction question "Defect Density" should get displayed	ect n	The prediction question "Defect Density" should get displayed
				4	TL User selects "Release" as trend parameter	The trend parameter "Release" should get displayed.	ase" as	The trend parameter "Release" should get displayed.

New test cases

Test Optimization

Existing test cases

[Quality Prediction](#)

[Test Optimization](#)

[Test Coverage](#)

[Adaptive Planning](#)

Project:

Module: ☒ Module 1 ☐ Module 3
☐ Module 2 ☐ Module 4

Optimization:

Overlaps

Use case BoA 2 – Identify testing overlaps

Overlap inside Module 1 between Existing & New test cases

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Project - ABC Module - 1

Identify Testing Overlaps

Redundant test cases

1. If match of keywords is between 70 - 90%

2. Criterion is configurable

Redundant test cases

▼ New	▼ Existing
TC0012	TC0045
TC0111	TC0123
TC0188	TC0356
TC0656	TC04412

Export

Duplicate test cases

▼ New	▼ Existing
TC0312	TC0041
TC0411	TC0143
TC0184	TC0326
TC0676	TC0422

Export

Duplicate test cases

1. If match of keywords is > 90%

2. Criterion is configurable

Test Cases

Test Cases

Test Case Reference ID	Test Scenario	Precondition	Test Case Description	Test Step	Test Case	Expected Results
1	User successfully predicts Defect Density Release Wise.	1.User has logged into the system with TL/PM Role and is on the home page. 2.CRESTA is connected to external defect repository Red mine	This is to verify that the TL user can predict using CRESTA as per the Prediction "Defect Density" and Trend "Release" selected	1	TL user goes to "Home" page to input prediction conditions.	On load of the Home page, system loads following data 1. Project dropdown with project list from the database applicable (accessible) to logged in User 2. Prediction Questions dropdown with prediction questions. 3. Trend Parameters dropdown is populated with either or both of the values "Release wise" and "Module wise" depending upon the prediction question selected.
				2	TL User selects project	Single project gets selected
				3	TL User selects "Defect Density" as prediction question	The prediction question "Defect Density" should get displayed
				4	TL User selects "Release" as trend parameter	The trend parameter "Release" should get displayed.

Module 1 test cases

Test Optimization

[Quality Prediction](#)

[Test Optimization](#)

[Test Coverage](#)

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Project:

Module: ☒ Module 1 ☒ Module 3

☐ Module 2 ☐ Module 4

Optimization:

Module 3 test cases

Overlap between Module 1 & Module 3

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Project - ABC

Identify Testing Overlaps

Redundant test cases

▼ Module 1	▼ Module 3
TC0012	TC0045
TC0111	TC0123
TC0188	TC0356
TC0656	TC04412

Export

Duplicate test cases

▼ Module 1	▼ Module 3
TC0312	TC0041
TC0411	TC0143
TC0184	TC0326
TC0676	TC0422

Export

BoA 3 – Improve Test Coverage

November, 2016

Use Case No.	Role	Question	Use Case Name
MVP	Test Manager	Which application areas require more attention?	Predict Defective Modules
3	Test Manager	Which requirements should be covered more adequately?	Identify scope for adequate test coverage of defective modules
3A	Test Manager	Are these test cases effective in terms of identifying defects?	Measure adequacy & efficiency of test cases
3B	Test Manager	Which application modules require more test cases?	Measure adequacy & efficiency of test cases for high risk modules

Which modules will have difficulties during and after release?

HomeMy pageProjectsHelp

SSS

OverviewActivityIssuesNew issueGanttCalendarNewsDocuments

Issues

▼ Filters

☒ Status

any▼

► Options

✔ Apply

🔄 Clear

💾 Save

✔ # ▼	Tracker	Status	Priority	Module	Subject
<input type="checkbox"/> 1842	Bug	Closed	Normal	Process	PickingList Upload Error
<input type="checkbox"/> 1841	Bug	Closed	High	Interface	Go-Live : Tracking dimension & storage dimension is not editable when an item is data linkage
<input type="checkbox"/> 1832	Bug	Closed	Normal	Process	Replicate net requirement issue in Standard AX 2012 CU7
<input type="checkbox"/> 1831	Bug	Closed	Normal	Process	Replicate net requirement issue in Standard AX 2012 CU7
<input type="checkbox"/> 1830	Bug	Closed	Normal	Process	Replicate net requirement issue in Standard AX 2012 CU7

Modules 1

Modules 2

Modules 3

Modules 1

Modules 2

Modules 3

Historical defects data module wise

Project:

PREDICTION:

Trend:

Project - ABC

Defective Modules Post release

		UCL	LCL	Weightage
Defect Density	<input type="button" value="Calculate"/>	<input type="text" value="98.9"/>	<input type="text" value="30.6"/>	<input type="text" value="15"/>
Defect Leakage	<input type="button" value="Calculate"/>	<input type="text" value="98.9"/>	<input type="text" value="30.6"/>	<input type="text" value="50"/>
Defect Rejection	<input type="button" value="Calculate"/>	<input type="text" value="98.9"/>	<input type="text" value="30.6"/>	<input type="text" value="35"/>

MVP – Predict Defective Modules

Modules 2

Module2
Weighted average prediction Score =

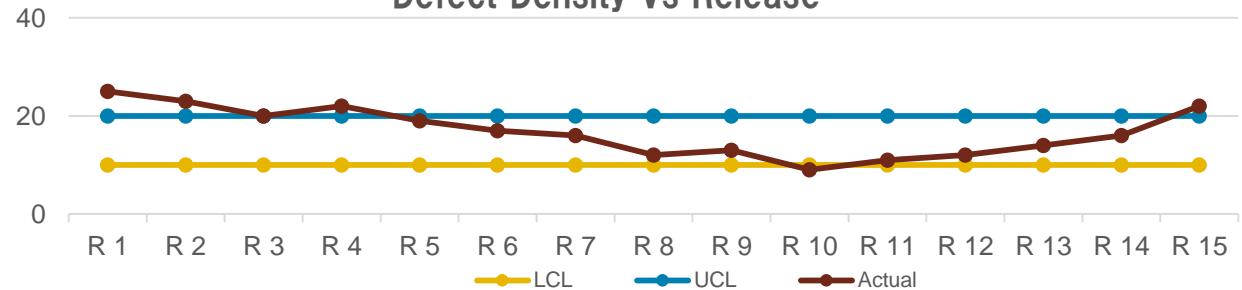
$$[(DD * \text{Weight}) + (DL * \text{Weight}) + (DR * \text{Weight})] / \text{No of metrics}$$

High Risk	Risk	Normal
Module 3	Module 2	Module 1
Module 5		Module 4

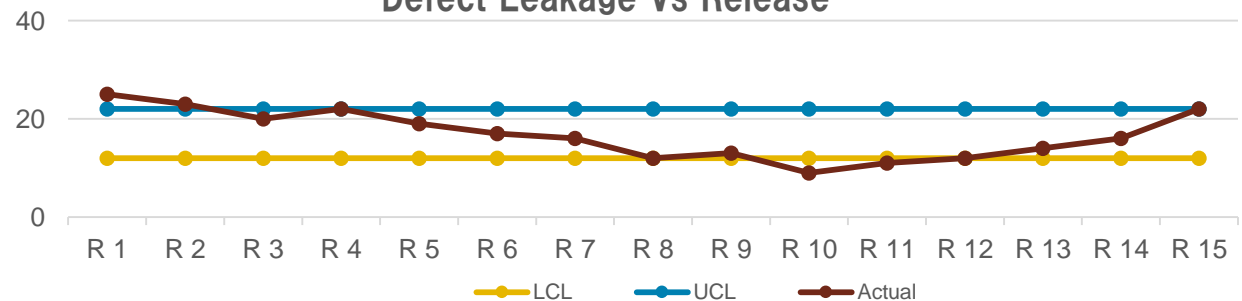
Project manager selects a module to see details

Note – R15 data is predicted data

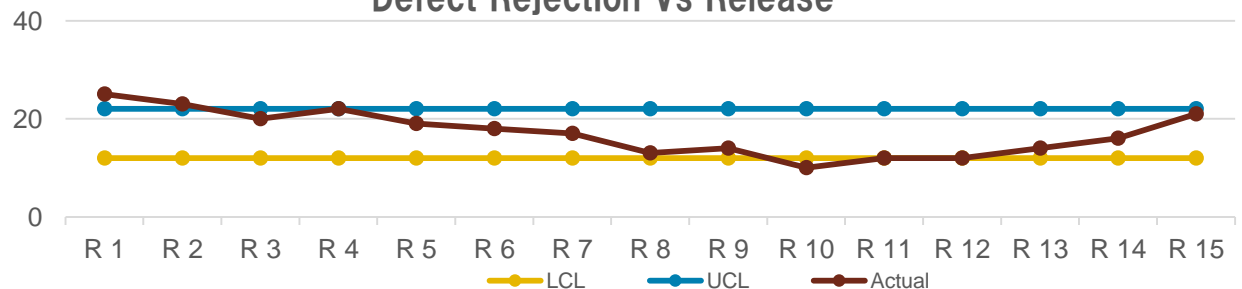
Defect Density Vs Release



Defect Leakage Vs Release



Defect Rejection Vs Release



3 – Identify scope for adequate test coverage of defective modules

Requirements doc

Test Cases

- 7.1. CRESTA should provide interface to setup users & roles.
- 7.2. CRESTA should provide four static roles(refer section 3.4 for actors list):
 - 7.2.1. Project Manager(PM)
 - 7.2.2. Test Lead(TL)
 - 7.2.3. CRESTA Admin(CA)
 - 7.2.4. Guest User(GU)
- 7.3. These 4 roles should be 'READ ONLY'. The Permissions of those CANNOT be modified (Edit/Remove) even by CRESTA Admin
- 7.4. Project Manager
 - 7.4.1. Project manager should have permissions to define metrics for a project
 - 7.4.2. Project manager should have permissions to configure UCL & LCL for various metrics
 - 7.4.3. Project manager should have permissions to monitor metrics & predictions given by CRESTA
- 7.5. Test Lead
 - 7.5.1. Test lead should have permissions to configure UCL & LCL for various metrics
 - 7.5.2. Test lead should have permissions to monitor metrics & predictions given by CRESTA
- 7.6. CRESTA Admin
 - 7.6.1. Only one user should be assigned to CRESTA Admin role
 - 7.6.2. CRESTA admin should have permissions to create new project

	Precondition	Test Case Description	Test Step	Test Case	Expected Results
ts Wise.	1.User has logged into the system with TL/PM Role and is on the home page. 2.CRESTA is connected to external defect repository Red mine	This is to verify that the TL user can predict using CRESTA as per the Prediction "Defect Density" and Trend "Release" selected	1	TL user goes to "Home" page to input prediction conditions.	On load of the Home page, system loads following data 1. Project dropdown with project list from the database applicable (accessible) to logged in User 2. Prediction Questions dropdown with prediction questions. 3. Trend Parameters dropdown is populated with either or both of the values "Release wise" and "Module wise" depending upon the prediction question selected.
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Test case Database

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Test Coverage

Project:

Module:

Requirement:

Historical Data: ☐

Test Coverage

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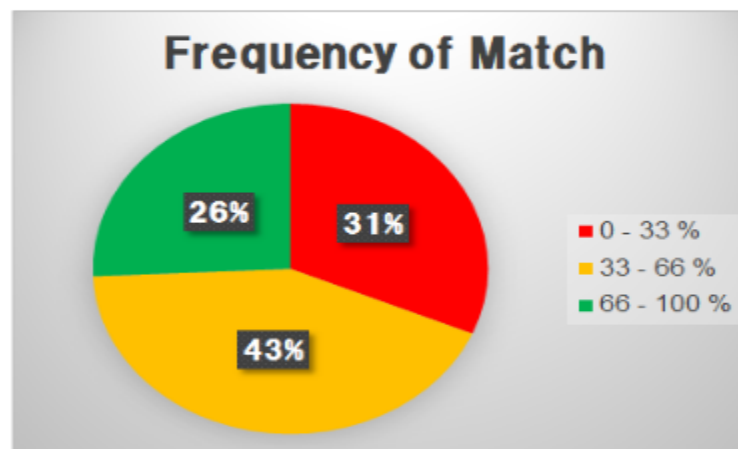
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Project - ABC Module - 3

Identify Test Coverage

Requirement	Bag of words	Frequency of Match %	Test Coverage
Project manager should have permissions to define metrics for a project	Define, metrics	0 - 33	Coverage is poor.
	Permissions	33 - 66	Coverage is average.
	Project, manager	66 - 100	Coverage is good.



3A,B – Measure adequacy & efficiency of test cases

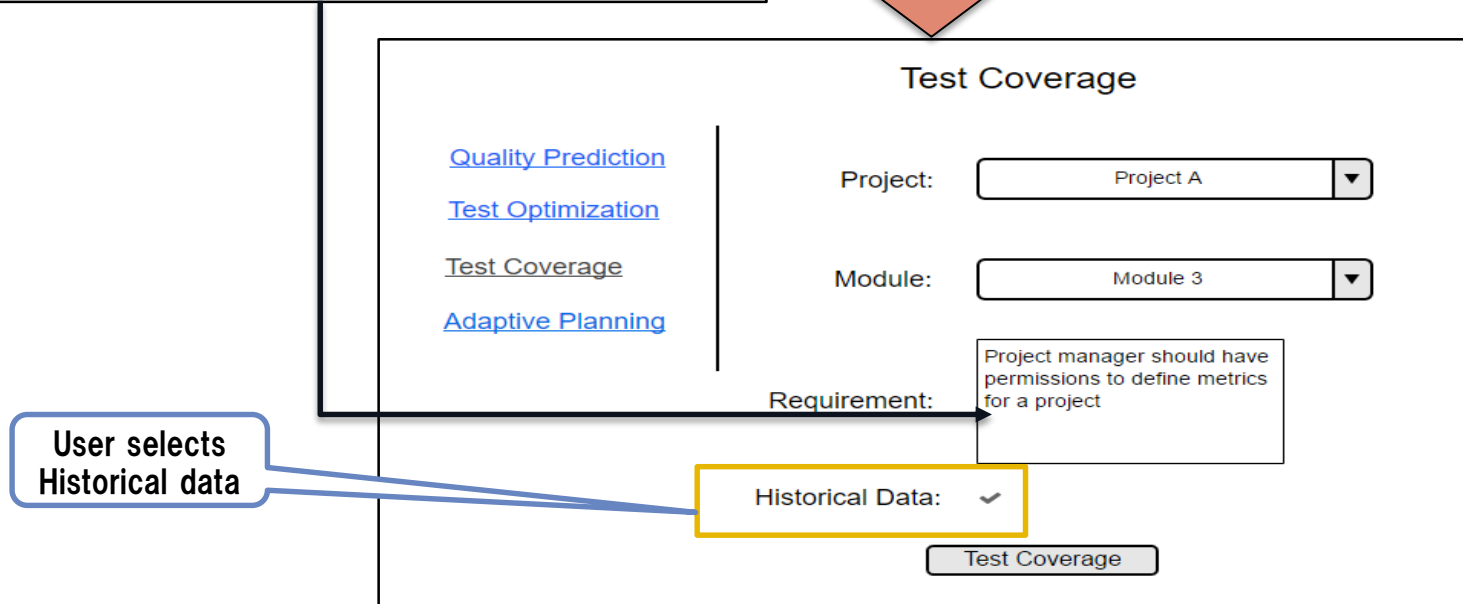
Requirements doc

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Test case Database



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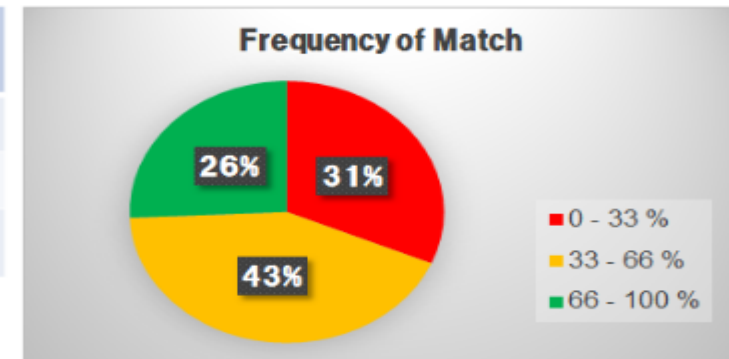
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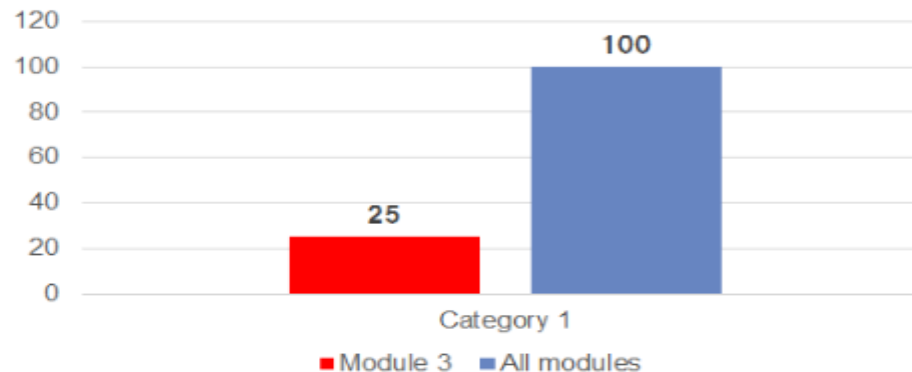
Project - ABC Module - 3

Identify Test Coverage

Requirement	Bag of words	Frequency of Match %	Test Coverage
Project manager should have permissions to define metrics for a project	Define, metrics	0 - 33	Coverage is poor.
	Permissions	33 - 66	Coverage is average.
	Project, manager	66 - 100	Coverage is good.



Defect Detection Efficiency
(Historical Data)

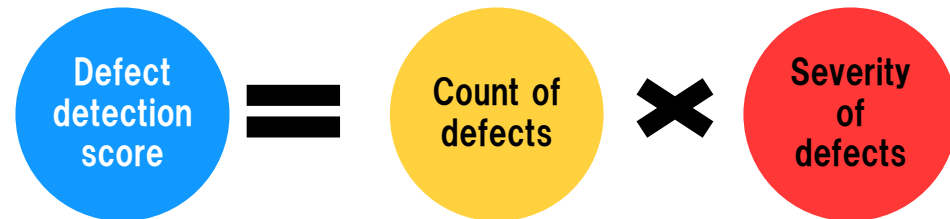


Analyse efficiency of test cases from historical data

Test Case ID	Test Scenario	Defect Detection score
TC0012	User successfully predicts Defect Density Release Wise.	31
TC0032	User ends up in error message when mandatory validation checks are not performed in home page	37

Historical
Test execution data

Severity	Weight age
Minor	1
Major	2
Severe	3
Critical	4



BoA 4 – Adaptive Planning

November, 2016

Use Case No.	Role	Question	Use Case Name
4	Test Manager	How project quality & efficiency to be improved?	Adjust Test Planning
4A	Test Manager	Scheduled reports?	Centralized reporting to disseminate the analysis to leadership team.

4 – Adaptive Planning

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SSS

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Issues

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✓ #	Tracker	Status	Priority	Module	Subject
<input type="checkbox"/> 1842	Bug	Closed	Normal	Process	PickingList Upload Error
<input type="checkbox"/> 1841	Bug	Closed	High	Interface	Go-Live : Tracking dimension & storage dimension is not editable when an item is data linkage
<input type="checkbox"/> 1832	Bug	Closed	Normal	Process	Replicate net requirement issue in Standard AX 2012 CU7.

Monthly

Month	Total efforts (Hours)	Total cost	Schedule variance (Days)	Project ABC Efficiency
Jan	440	\$500	2	
Feb	520	\$600	1	
Mar	480	\$560	0	
Apr	528	\$700	0	
May	400	\$450	1	
Jun	488	\$460	1	

[Quality Prediction](#)

[Test Optimization](#)

[Test Coverage](#)

[Adaptive Planning](#)

Program:

xyz

Project:

ABC

Trend:

Month

Adaptive Planning

4 - Adaptive Planning

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Program - xyz

Project - ABC

Adaptive Planning

Month	Quality	Efficiency
Jan	Green	Red
Feb	Yellow	Yellow
Mar	Red	Green
Apr	Green	Green
May	Yellow	Yellow
Jun	Green	Green
Prediction	Green	Red

Recommendation: Reduce cost by \$100

4A – Centralized reporting to disseminate the analysis to leadership team

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CRESTA

Comprehensive Robotic Engine for Software Test Acceleration

Program - xyz

Project - ABC

Adaptive Planning

Month	Quality	Efficiency
Jan	Green	Red
Feb	Yellow	Yellow
Mar	Red	Green
Apr	Green	Green
May	Yellow	Yellow
Jun	Green	Green
Prediction	Green	Red

Recommendation: Reduce cost by \$100

Report