

CICD - Dashboards

property names	Value	Descriptions
lib	lib	folder to store the dependency RestClient.jar
Dashboard related parameters below		
buildVersion	Any Random Value that is shown in the dashboards.	This value is shown in the dashboard reports, this can be generated randomly as well.
projectName	Name of the project.	Name of the project, that can be used to identify the project on the dashboard, can also be used for filtering data.
Bucket	bucket name in AWS S3	Amazon S3 bucket where dashboard structure will be created
product	Name of the product.	Name of the product, that can be used to identify the product on the dashboard, can also be used for filtering data.
MaxBuilds	A number from 0 to 50	max number of historic builds to maintain in dashboard, This is used for housekeeping, mentioning the number of 25 would keep 25 builds in S3 and would be shown as history.
customer	Customer Name	Name of the customer that would be displayed in the dashboard.
General access parameters below		
environment	environment value	Could be staging, QA or any, mentions about the application environment or the product environment.
aiqCreds	creds.json	AIQ server DNS and login creds
consoleDetails	consoleDetails.json	json file created to write EC2 details once connected
awsCredentials	ec2.creds	AWS credentials with permission solely to start and stop the EC2 instances to be used
Execute Scenario's parameters		
dir	scenarios	folder that contains scenario and resources needed by it
scenario	xxxx.scenario	scenario to be executed by executeScenario
stopOnFailure	true or false	when true will throw exception if all testcases in scenario fails
scenarioResults	scenarioResults	folder where result junit xml files will be created after execution of scenario
scenarioReports	scenarioReports	This is the folder where some final files will be created for the scenario.
Blueprint parameters		
dataset	Folder/xxxx.json	to set override the dataset inside the template
blueprintResults	blueprintResults	Is the folder where AIQ will store the blueprint results, then it will create another folder blueprintReport, where some final files will be created
blueprintReports	blueprintReports	
template	.abpt or .mbpt	blueprint template used to start the blueprint creation or the mobile template to start the mobile blueprint creation
requestMaxDuration	numbers (1000 to 2000 for example)	blueprint setting for generating the slow requests report (timings report)
reportStatusCode	numbers (200, 302, 400, 500 for example)	blueprint setting for reporting requests that has this code or greater as response status code
checkBlueprintResult parameters		
maxFailingRequests	Number (-1 means allow all of the failed requests, 5 means allow only 5 failing requests)	failing requests by status code
minValidationRatio	Number (-1 means allow all of the failed requests, 5 means allow only 5 failing requests)	minimal validation success ratio
maxValidationFailures	Number (-1 means allow all of the failed requests, 5 means allow only 5 failing requests)	max number of allowed validation errors
checkScenarioResult parameters		
maxAllowedFailures	Number (10 for example, if more than 100 test cases fail, the build would be failed)	max number of failing executions
minSuccessRatio	Number (95 for example, means 95 should be the minimum success ratio else the build would fail)	min percentage of success scenarios
AI Regression testing parameters		
logsRemoteFolder	Logs folder path	server logs that will be used by the AI test generation process
outputFolder	outputFolder path	folder where the AI generated scenario and scripts will be created
fileConfig	generateRegressionScenario.json	parameters of the AI generation of scenario and scripts

Dashboards Explained:

The main dashboard looks like the below:

Product All

Environment All

Type All

View	Build Id	Product	Environment	Test Type	Test Name	Date ▲	Duration	Failure(s)	Success Rate	History Results
	00012	Timing	DevTime	Functional Scenario	Internal Test	2020/04/28 13:00 CST	1 min 42 sec	1	50%	
	00011	Timing	DevTime	Web Blueprint	Testing Scenario	2020/04/28 11:16 CST	7 min	0	100%	
	0	devTesting	QA	Web Blueprint	Testing	2020/04/27 10:23 CST	3 min	0	100%	
	0	devTesting	QA	Functional Scenario	Internal	2020/04/27 09:06 CST	2 min 43 sec	0	100%	
	04-27-2020	Appvance Dashboard	Production	Web Blueprint	Appvance Dashboard	2020/04/27 09:03 CST	8 min	0	100%	
	009	Timing	DevTime	Functional Scenario	Parallel_scenario	2020/04/24 15:59 CST	1 min 38 sec	2	33%	
	0003	DevTestings	Developer	Functional Scenario	Internal Testing	2020/04/23 14:55 CST	2 min 13 sec	1	50%	

1. The main dashboard will have all the entries for the scenarios and the AISG run for the application under test
2. The top right will have last updated with the date and time
3. Product is a drop-down field that lists out all the products of the dashboard, remember product was a property that was set in build.xml, and based on the provided value, a dashboard would be created

Product	All	Environment	All	Type	All					
View	All 2nd Functional Scenario Test AJQ Internal Apple Website Appvance Blueprint Test Bulk Scenario Test DemoSiteTest DevTestings FineApp Functional Scenario Test Load Scenario Test Mobile Blueprint Test Performance Scenario Test Web Blueprint Timing Web Blueprint Test Web Testing Web Testing scenario Test									
	Build Id	Product	Environment	Test Type	Test Name	Date ▲	Duration	Failure(s)	Success Rate	History Results
			DevTime	Functional Scenario	Internal Test	2020/04/28 13:00 CST	1 min 42 sec	1	50%	
			DevTime	Web Blueprint	Testing Scenario	2020/04/28 11:16 CST	7 min	0	100%	
			QA	Web Blueprint	Testing	2020/04/27 10:23 CST	3 min	0	100%	
			QA	Functional Scenario	Internal	2020/04/27 09:06 CST	2 min 43 sec	0	100%	
			Production	Web Blueprint	Appvance Dashboard	2020/04/27 09:03 CST	8 min	0	100%	
	009	Timing	DevTime	Functional Scenario	Parallel_scenario	2020/04/24 15:59 CST	1 min 38 sec	2	33%	

4. The environment is again a drop-down field that lists out all the environments, remember environment is again a property that was set in build.xml, and based on the provided value, dashboards would be created or updated
5. Type Lists out all the test types, like functional scenarios, AISG etc

Dashboard | Internal

Last updated: 2020/04/28 13:24 CST

Product All

Environment All

Type All

Functional Scenario

Loadtest Scenario

Mobile Blueprint

Web Blueprint

View	Build Id	Product	Environment	Test Type	Test Name	Date	Duration	Failure(s)	Success Rate	History Results
	00012	Timing	DevTime	Functional Scenario	Internal Test	2020/04/28 13:00 CST	1 min 42 sec	1	90%	
	00011	Timing	DevTime	Web Blueprint	Testing Scenario	2020/04/28 11:16 CST	7 min	0	100%	

6. Build id - is again is a value provided in build.xml, it can be driven to be dynamically generated from other tools like Jenkins.

From Jenkins:

buildNumber=Appvance\$BUILD_NUMBER

\$BUILD_NUMBER is an inbuilt method that creates a build number by itself so every time a pipeline is run, a number would be appended to Appvance (Example: Appvance01)

Within Build.xml:

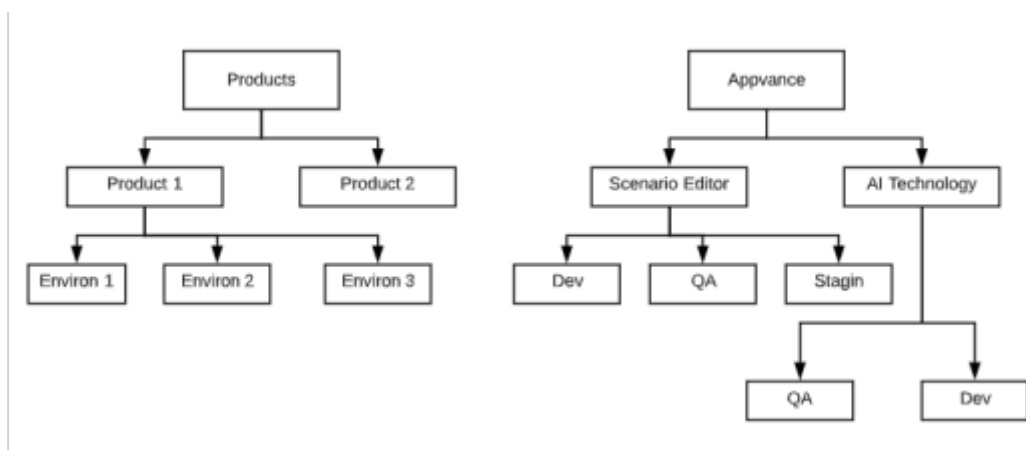
Below example shows picking today's date as the build number which is defined inside build.xml as shown below:

```
<property name="buildVersion" value="${TODAY_MY}" />
<tstamp>
<format property="TODAY_MY" pattern="MM-dd-yyyy" locale="en,US" />
</tstamp>
```

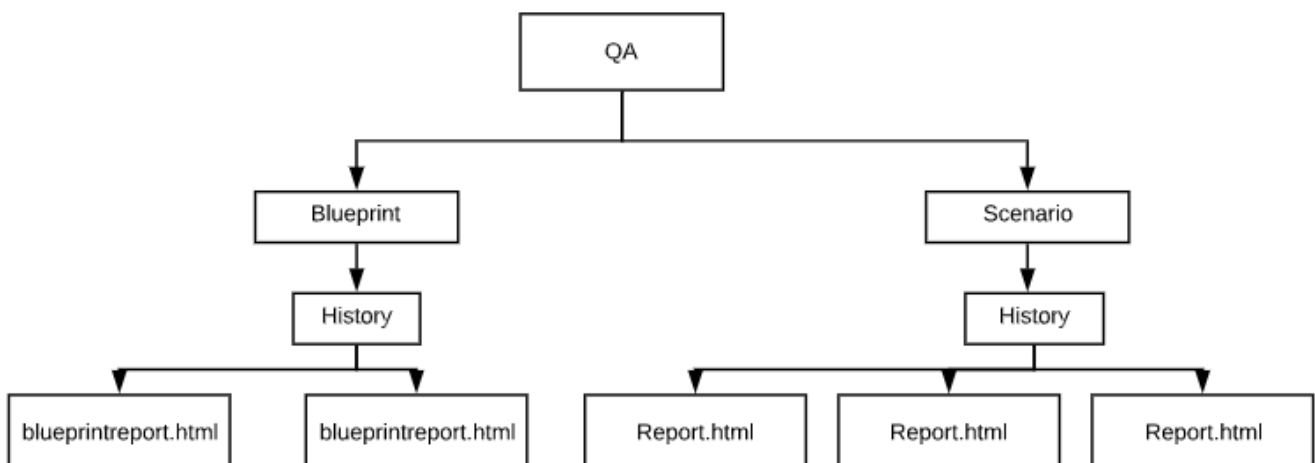
7. Test Name - It is the name of the test scenario name/AISG execution name
8. Date - Date of when the AISG or the test scenario was run
9. Duration - is the pipeline duration
10. Failures - will show the number of script failures for scenarios and the number of validation failures for AISG
11. Success Rate - Success rates in percentage for both Scenarios and AISG
12. Toggle Columns - You have options to toggle columns with Build Id, Product, Environment

Dashboard Dev 2020/09/22 10:18 CST									
Product: All		Environment: All		Type: All		Toggle Columns			
						☒ Build Id ☐ Product ☒ Environment			
View	Build Id	Environment	Test Type		Date	Duration	Failure(s)	Success Rate	History Results
Q	185481865	Staging-ClerkshipscenarioCountDown	Functional Scenario		2020/09/08 11:04 CST	10 min 15 sec	0	100%	Q
Q	2009081012	TestTicket	Web Blueprint		2020/09/08 10:15 CST	2 min	8	11%	Q
Q	2009080858	TestTicketMaster4.02	Web Blueprint	Clerkship	2020/09/08 09:00 CST	1 min	182	27%	Q

Products and Environments:



Environments:



History Results:

Click the icon for each of the entries under History Results to check the history results for a scenario run based on product/Environment/Test Type (AISG or Scenario)

Dashboard Internal										Last updated: 2020/04/28 13:24 CST
Product All		Environment All		Type Web Blueprint						
View	Build Id	Product	Environment	Test Type	Test Name	Date	Duration	Failure(s)	Success Rate	History Results
	0	AIQ-Internals	QA	Web Blueprint	Testing	2020/01/15 16:45 CST	1 min	0	100%	
	0	AIQ-Internals	QA	Functional Scenario	Internal	2020/04/21 10:04 CST	1 min 2 sec	0	100%	
	0	devTesting	QA	Web Blueprint	Testing	2020/04/27 10:23 CST	3 min	0	100%	

AISG:

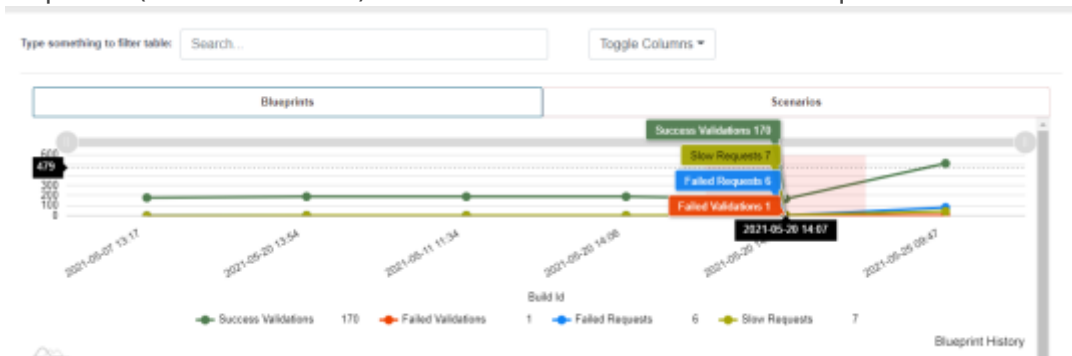
Internal Web Blueprint										Last updated: 2020/04/28 13:23 CST
Type something to filter table: Search...										
Blueprints										
Id	Name	Success Rate	Start Time	Duration	SmartTags	Validators	Extractions	Slow Request	Failed Request	View
[latest] 00022	Demosite	87%	2020/03/27 11:36 CST	43 min	5 1	115 17	3 2	1	0	
00020	Demosite Appvance	80%	2020/03/27 09:59 CST	52 min	5 1	137 22	4 2	3	0	
00019	Demosite Appvance	88%	2020/03/26 08:47 CST	35 min	5 1	80 11	2 3	0	2	

1. It has a search option on top so you can search for something specific, like dates, build number, etc
2. ID is the same as the build number
3. Name is the name of the AISG
4. Success rate gives the success rate of the AISG, if there are some validation failures, those can be checked using Validators
5. Start Time - shows when the AISG was started
6. Duration - shows how long the AISG was run
7. SmartTags - shows all the SmartTags that were used in the Green tick box and also the ones that are not used in the orange box. You can click them for a quick view

Smart Tags Report					X	
#	Smart Tag Name	Type	Found	Failed Actions		
1	searchButton	Action	5	0		
2	searchText	Text	5	0		
3	spanProducts	Action	3	0		
4	homeLink	Action	5	0		
5	bagsLink	Action	5	0		
					CLOSE	

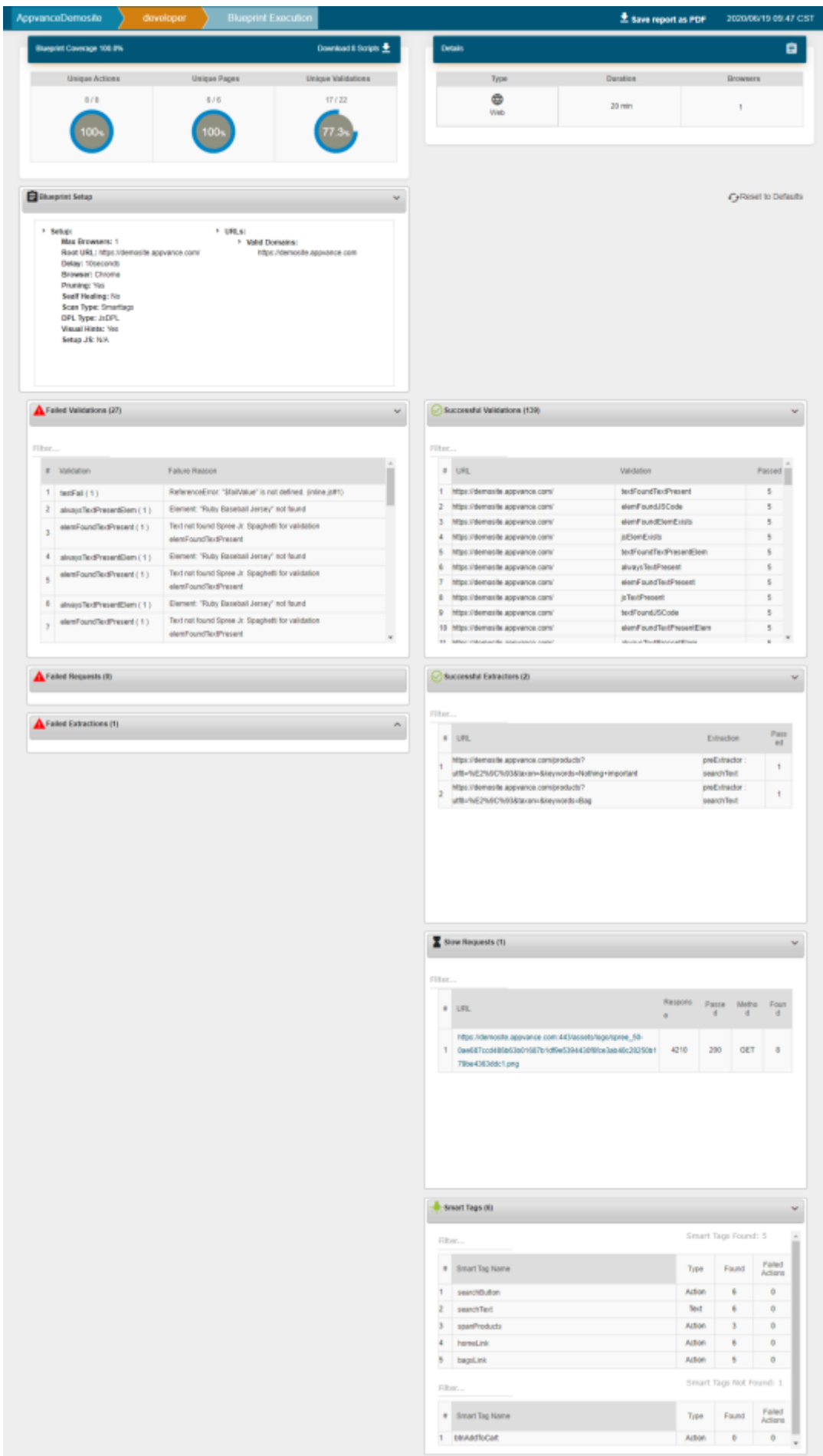
8. Validations - will list all the successful validations and the failed validations, just like SmartTags, you can open the quick view to list out all the validations that were passed and all the validations that were failed

9. Extractions - will list all the successful and failed extractions and you can use the quick view to see the list of successful extractions and the failed ones
10. Slow requests - Depending on the user entry in the build.xml to filter out the slow responses (like 2000 msecs) - this will list out all the slow requests
11. Failed Requests - Depending on the user entry in the build.xml to filter out all the failed requests (302 and above) - this will list out all the failed requests



The graph shows successful and failed validations, slow and failing requests over a period of time. You can mouse hover on both graphs to get more details.

View:



1. Test Coverage shows all the Unique Actions created, Unique pages found statistics and total scripts created, and an option to download all the JS scripts created from the AISG

Coverage is basically:

The list of unique actions is divided by total actions, The list of unique pages divided by total pages found, then both results are summarized and divided into 2, so the coverage is an average of the percentage of actions and pages found, just those values are considered to generate the final value.

2. AISG section details will show the AISG type (Web or Mobile), AISG duration in minutes, and the number of browsers
3. Below sections - Failed Validations, Failed Requests, Failed Extractions, Successful Validations, Successful Extractions, Slow Requests, SmartTags-All can be expanded and collapsed
4. These sections can be dragged and dropped based on user needs, like dragging all the failed sections to one side and all the successful sections to the other side, even if the browser is refreshed, these sections stay as the user made changes
5. Reset to Defaults can be used to re-arrange the sections as default options
6. Each of the sections will have a Filter option to filter out based on the needs

The screenshot displays the AISG report interface with the following sections:

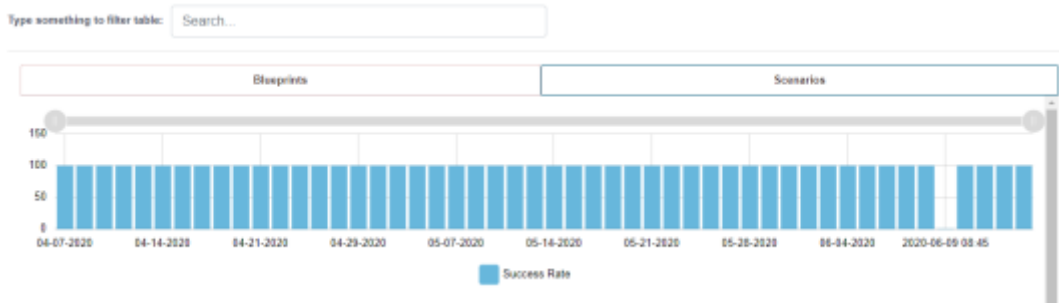
- Test Coverage:** Unique Actions: 260, Unique Pages: 25, Total Scripts: 264. Includes a 'Download Scripts' button.
- Blueprint Details:** Blueprint Type: Web, Blueprint Duration: 7 min, Browsers: 12.
- Failed Requests:** 2 failed request(s). Includes a table with columns: #, Request, Duration, Status, Method, Script. The first entry shows a failed request to a demo site.
- Successful Validations:** 165 validation(s) passed. Includes a table with columns: #, URL, Validation, Passed. The first entry shows a successful validation for a demo site.
- Failed Validations:** (Empty section)
- Failed Extractions:** (Empty section)
- Successful Extractions:** (Empty section)
- Slow Requests:** 6 warning(s).
- Smart Tags:** 7 SmartTag(s).

7. Under failed requests, you can expand a particular request and copy the generated script which can be pasted in JS Edit & Play to be replayed back. The same applies to slow requests as well.
8. The entire report can be downloaded as pdf using **Save report as PDF** on top of the page next to the Last updated

Scenarios:

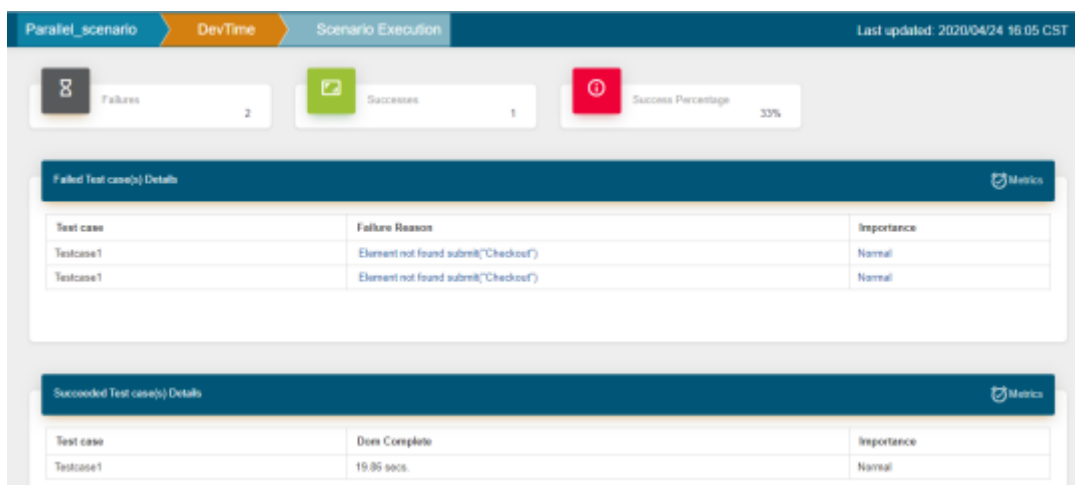
1. Just like a AISG, a search option is available to filter out the entries
2. ID is the build-id
3. NameThen is the scenario name
4. Type shows if it is a functional, performance, or bulk scenario type

5. Initial Time - This shows when the scenario started executing
6. Success/Failure - This shows the list of success test cases and failed test cases, you can click the quick view to see the full list
7. Success percentage - This shows the success percentage
8. Duration - This shows the duration of the scenario run from AIQ. When scenarios are run in parallel, the duration will show the duration of the scenario which took longer. When scenarios are run in sequence, the duration will show the duration of all the scenarios summed up.



You will also be able to view the graphs of history on the success and failure of the scenarios over a period of time

View:



1. On top, it lists out the total Failures, Successes, and Success Percentages
2. Failed test case detailed section lists all the test cases that were failed and a one-line Failure reason with the importance set in the Scenario Editor test case section
3. You can expand each of the test cases to look at more details on the failure like Steps, script and resources to download, Failure snapshot, Instant replay to download, Failure snapshot of step highlighted, Trace, and error logs

Failed Test case(s) Details
Metrics

Test case	Failure Reason	Importance
Testcase1	Element not found submit("Checkout")	Normal

Steps ^

Designer Script & Resources1 - demosite.ds ^
Failure Snapshot 1 - demosite.ds ^
Instant Replay 1 - demosite.ds ^
Screenshot 1 ^
Script Snapshot 1 - demosite.ds ^
Trace Logs ^
Error Logs ^

4. Each of the above details can be expanded to look into more details

Failed Test case(s) Details
Metrics

Test case	Failure Reason	Importance
Testcase1	Element not found submit("Checkout")	Normal

Steps v

Testcase1 Testcase Steps
Node: 127.0.0.1 | Priority: normal | Exec id: 1587765690993 | Tx id: 36384 | Offset: 24

Result: Failed
Failure: java.lang.Exception: Element not found submit("Checkout")
at com.appvance.ds.client.DSPlaybackClient.checkAction(DSPlaybackClient.java:2304)
at com.appvance.ds.client.DSPlaybackClient.click(DSPlaybackClient.java:2486)
at com.appvance.ds.client.DSPlaybackClient.click(DSPlaybackClient.java:2495)
at com.appvance.ds.xmlXMLClient.processStep(XMLClient.java:647)
at com.appvance.ds.xmlXMLClient.processScript(XMLClient.java:149)

Failed Test case(s) Details
Metrics

Test case	Failure Reason	Importance
Testcase1	Element not found submit("Checkout")	Normal

Steps ^

Designer Script & Resources1 - demosite.ds v [Download Script](#)

Failed Test case(s) Details
Metrics

Test case	Failure Reason	Importance
Testcase1	Element not found submit("Checkout")	Normal

Steps ^

Designer Script & Resources1 - demosite.ds ^

Failure Snapshot 1 - demosite.ds v



Testcase1
Element not found submit("Checkout")
Normal

Steps ^

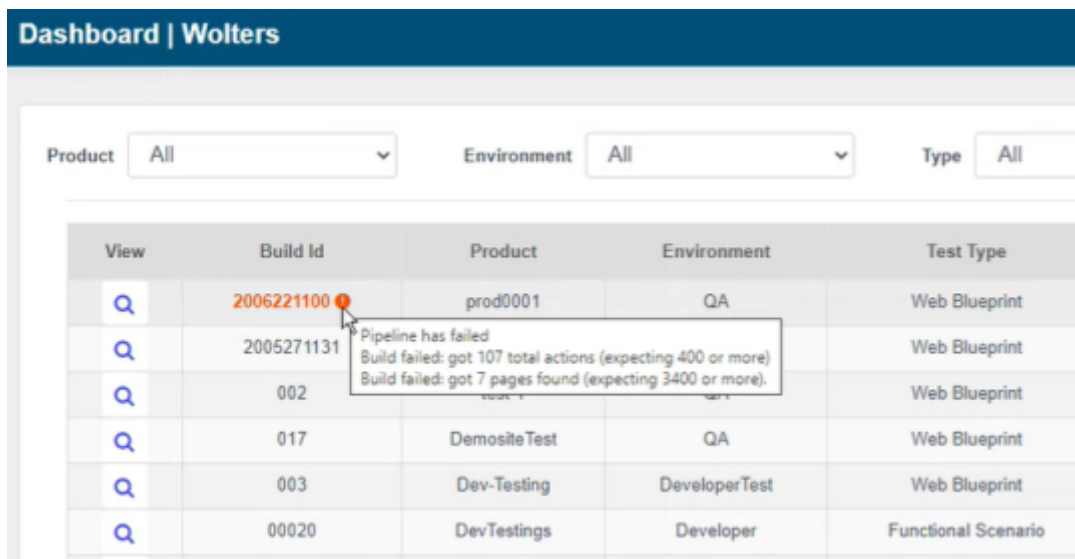
Designer Script & Resources1 - demosite.ds ^
Failure Snapshot 1 - demosite.ds ^
Instant Replay 1 - demosite.ds v [Download Instant Replay](#)

5. The success test case will have the same details excluding the failed screen-shots and failed error logs
6. Previous 5 Execution Pass or Fail - This will give details about a test case consistency over the last 5 executions

Min Actions and Min Pages:

This is an optional field, but if you want to enable it on the dashboards, you should make the following changes.

Based on the entries from the user, min pages, and min actions, the build would be marked as success or failure.



View	Build Id	Product	Environment	Test Type
	2006221100	prod0001	QA	Web Blueprint
	2005271131			Web Blueprint
	002			Web Blueprint
	017	DemositeTest	QA	Web Blueprint
	003	Dev-Testing	DeveloperTest	Web Blueprint
	00020	DevTestings	Developer	Functional Scenario

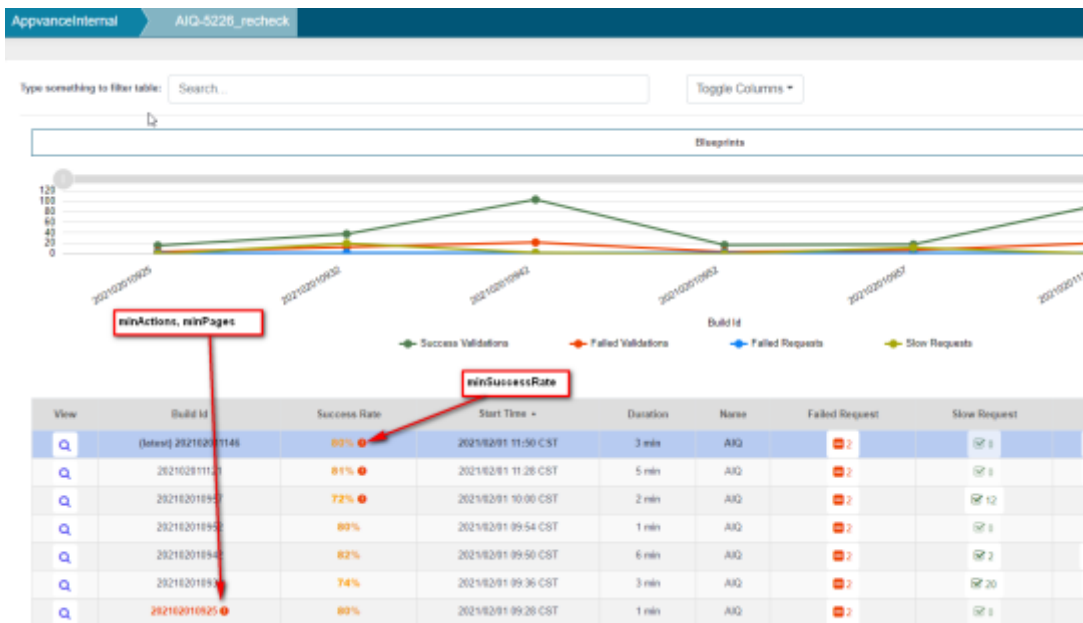
In order to have these changes on dashboards, please modify the build.xml as follows:

All these parameters are required in order to fully display this feature.

```
<property name="minSuccessRate" value="95" /> //minSuccessRate to skip set to "0" zero
```

```
<property name="minActions" value="40" /> // set the minimum expected actions in the AISG, minActions to skip set to -1
```

```
<property name="minPages" value="30" /> // set the minimum expected pages in the AISG, minPages to skip set to -1
```



This would be used in the below ant tags.

- createBlueprint
- consumeBlueprint
- checkBlueprintResults

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If you have any feedback on this topic, please contact us at documentation@appvance.ai

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