Readme

Contents

Deploying	1	
Software requirements		1
Setup steps		1
Starting server		1
Instruction	2	
Application		2
Dashboard		3
Gadget:		5
New Epic Gadget Instance:		5
New User Story Gadget instance:		6
New Assignee and Cycle Gadget instance:		7
Authorize Product-Test Cycle:		8
Database diagram	9	
Back-end diagram	10	
Front-end diagram	11	
Caching	12	
Greenhopper gadget caching:		12
Test Execution Report Querying Rules:	13	
Possible Improvements	14	

Deploying

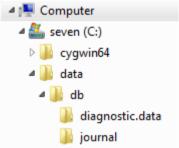
Software requirements

- JDK 8u112: http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html
- Maven 3.3.9: https://maven.apache.org/download.cgi
- MongoDB community 3.41: https://www.mongodb.com/download-center#community

Please download and install them.

Setup steps

- 1. Database
 - Download "data.zip" from "ftp://ftp2.tma.com.vn/nnmchau/Database/"
 - Extract it in to home dir (C:\) like this:



2. Network

- To change/enable/disable proxy option, modify values of *resourcebundle.proxy.ip*, *resourcebundle.proxy.port* in "src/main/resources/internal_conf.properties" file. Note*: Comment out one of them to disable proxy.
- By default, application work on port: 1373. To change it, modify "src/main/java/conf/application.conf".

Starting server

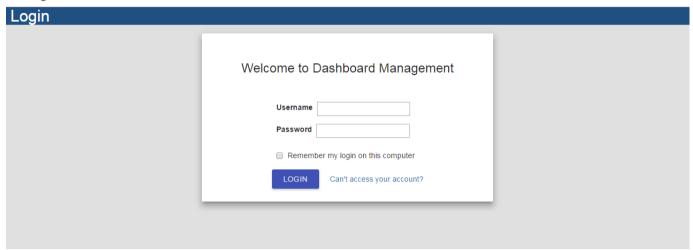
- 1. Run "mongod.exe" from "C:\Program Files\MongoDB\Server\3.2\bin\".
- 2. At the root dir of project, run cmd with command "mvn package ninja:run"

```
http://www.ninjaframework.org
@ninjaframework
5.8.0
eninjaframework
b.8.0
eninjaframework
control of 16:52:16.518 INFO (NinjaJetty) n.l.LifecycleServiceImpl [LifecycleServiceImpl.java:53] Starting Ninja application...
2017-01-05 16:52:16.522 INFO (NinjaJetty) n.l.LifecycleServiceImpl [LifecycleServiceImpl.java:86] Ninja application started in 4ms
2017-01-05 16:52:16.525 INFO (NinjaJetty) o.e.j.s.h.ContextHandler [ContextHandler.java:741] Started o.e.j.s.ServletContextHandlereb1712f36
2017-01-05 16:52:16.610 INFO (NinjaJetty) o.e.j.s.ServletContextHandler.java:741] Started ServletContextHandlereb171.1368
2017-01-05 16:52:16.610 INFO (NinjaJetty) o.e.j.s.ServletContextHandler.java:791 Started de1231ms
2017-01-05 16:52:16.610 INFO (NinjaJetty) n.s.NinjaJetty [NinjaJetty] java:168] Started jetty v9.2.10.v20150310 on <all>
2017-01-05 16:52:16.610 INFO (NinjaJetty) n.s.NinjaJetty [AbstractStandalone.java:513]
2017-01-05 16:52:16.611 INFO (NinjaJetty) n.s.NinjaJetty [AbstractStandalone.java:514] Ninja application running at
2017-01-05 16:52:16.611 INFO (NinjaJetty) n.s.NinjaJetty [AbstractStandalone.java:514] Ninja application running at
2017-01-05 16:52:16.611 INFO (NinjaJetty) n.s.NinjaJetty [AbstractStandalone.java:514] Ninja application running at
2017-01-05 16:52:16.611 INFO (NinjaJetty) n.s.NinjaJetty [AbstractStandalone.java:514] Ninja application running at
2017-01-05 16:52:16.611 INFO (NinjaJetty) n.s.NinjaJetty [AbstractStandalone.java:514] Ninja application running at
2017-01-05 16:52:16.611 INFO (NinjaJetty) n.s.NinjaJetty [AbstractStandalone.java:514] Ninja application running at
2017-01-05 16:52:16.611 INFO (NinjaJetty) n.s.NinjaJetty [AbstractStandalone.java:514] Ninja application running at
2017-01-05 16:52:16.611 INFO (NinjaJetty) n.s.NinjaJetty [AbstractStandalone.java:514] Ninja application running at
2017-01-05 16:52:16.611 INFO (NinjaJetty) n.s.NinjaJetty [AbstractStandalone.java:514] Ninja application running at
2017-01-05 16:52:16.611 INFO (NinjaJetty) n.s.NinjaJetty [AbstractStandalone.java:514
```

Instruction

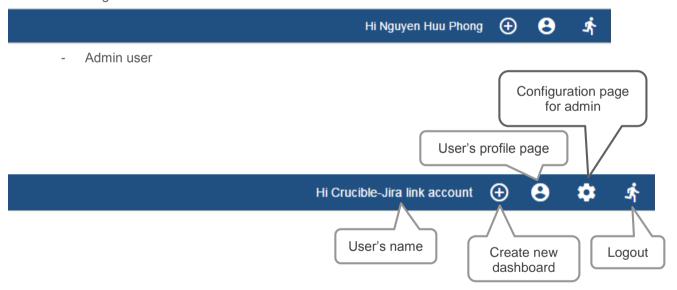
Application

- We strongly recommend using Google Chrome browser.
- Login UI



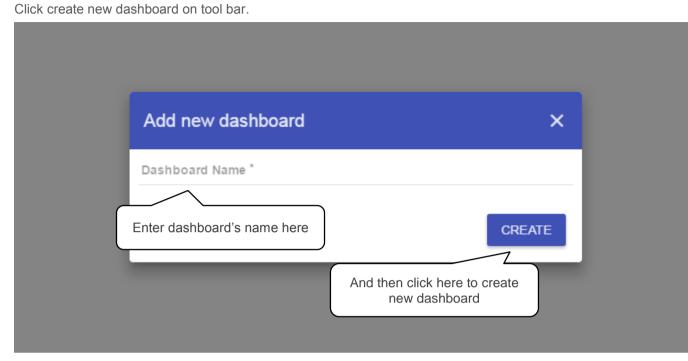
Toolbar

- Regular user

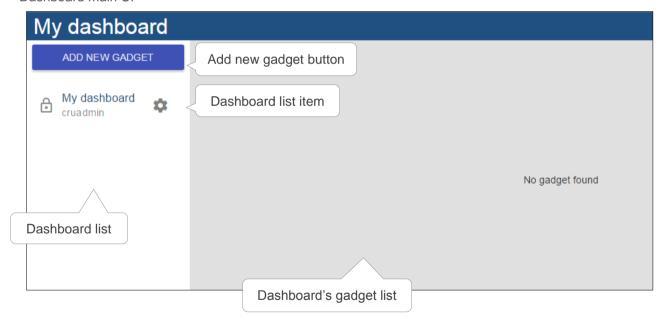


Dashboard

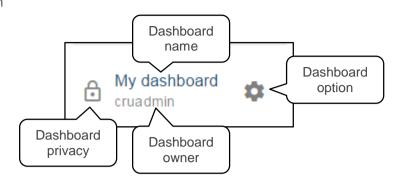
Create Dashboard



Dashboard main UI

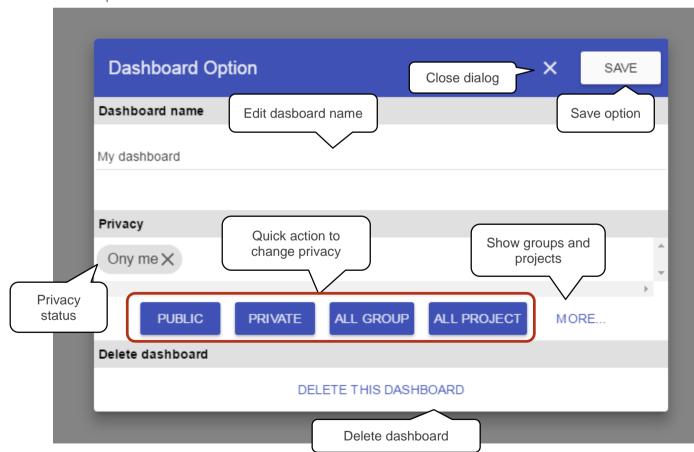


· Dashboard list item



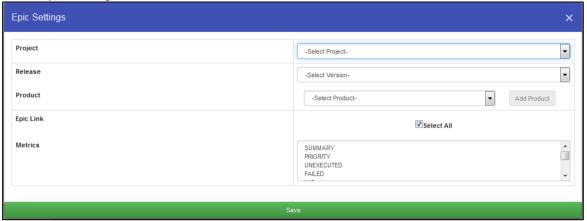
Icon	Privacy status
6	private
•	public
8	Share to specific group or project

Dashboard option UI

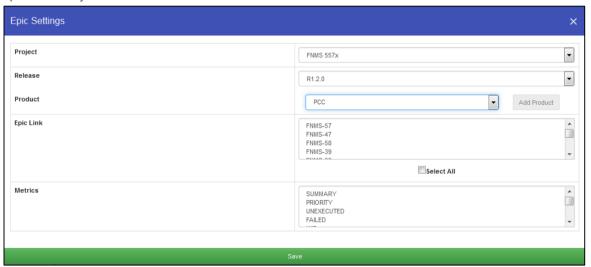


Gadget:

New Epic Gadget Instance

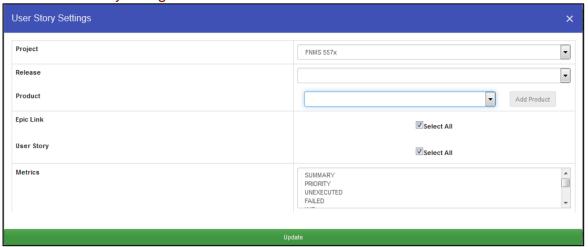


After filling in project, release, and product field, if epic link is not "Select All". Database will query for a list of
epic issue keys.

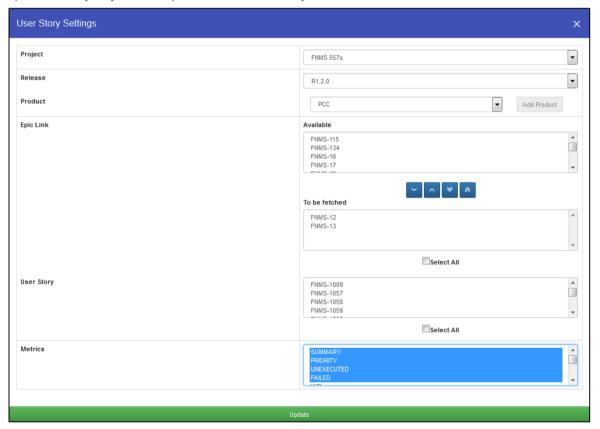


· Select epic link and all the remaining options you want for your table then save gadget.

New User Story Gadget instance:



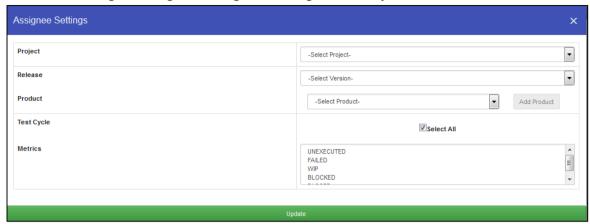
• After filling in project, release, product field. If epic link field is not "Select All". Database will query for a list of epic issue keys. By default epic links and user story are selected all.



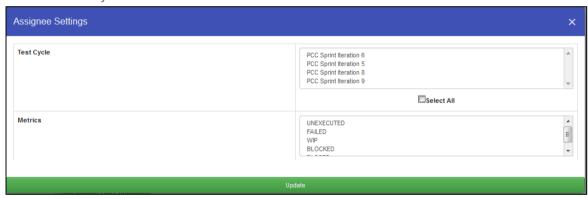
- After obtaining available epic links list, select available epic keys you want to fetch story issues.
- Select user story issue keys you want for the table then update.

New Assignee and Cycle Gadget instance:

Assignee and Test Cycle gadget have the same dialog interface with the only difference is table details once
it's drawn. In Assignee Gadget, all assignees belong to a Test Cycle will be shown.

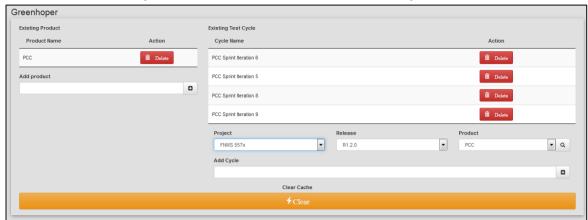


- If Select All Test Cycle is selected, input other fields normally and update gadget.
- If Select All Test Cycle is not selected, project-release-product field will be hidden and a list of Test Cycle commissioned by Jira Administrator will be loaded and shown.



Authorize Product-Test Cycle:

· As a Jira administrator, you can commission new Product and Test Cycle for user to choose from.

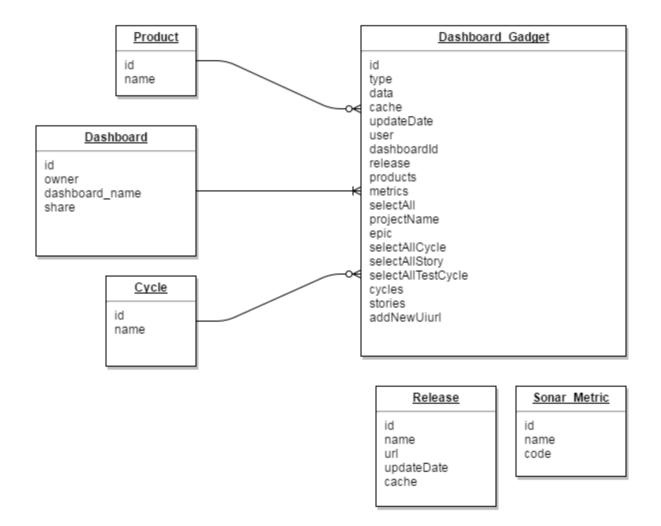


- 1. To add Product, type in Product name and click the button at the end of input field
- 2. To add Test Cycle, type in Test Cycle name and click the button at the end of input field.

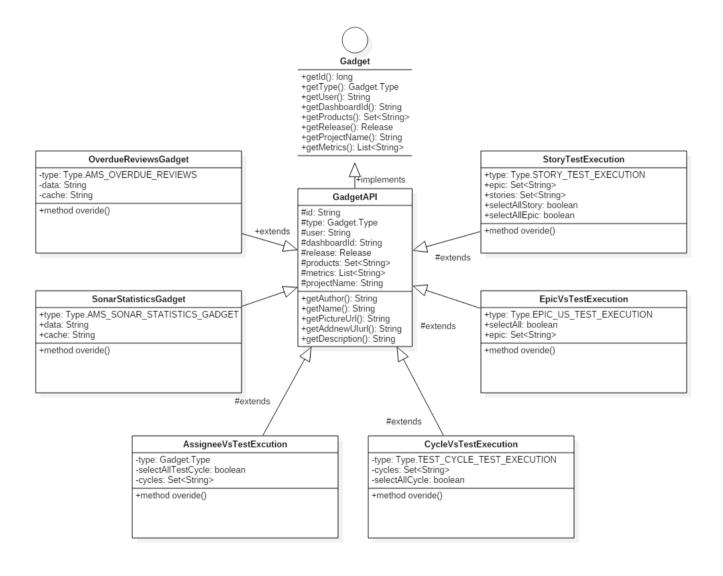


3. Alternatively you can to search for test cycle list, click on the magnifier icon to search for product. Once loading icon disappeared or select field is enabled again, double-click on Add Cycle input field, it should show the search result in the form of drop-down list. Select and add the one you want.

Database diagram

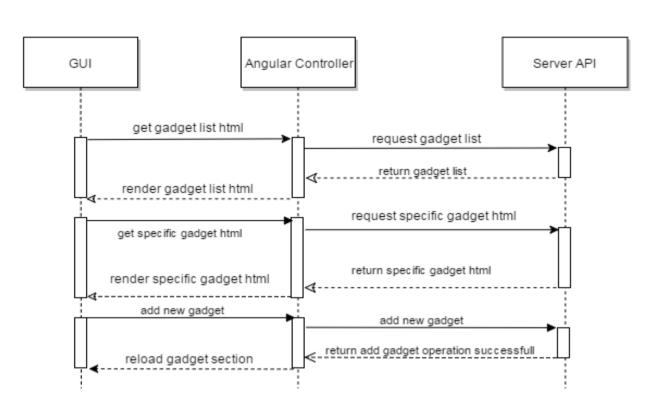


Back-end diagram



Front-end diagram

Add/edit gadget sequence diagram



12 Caching

Caching

Greenhopper gadget caching:

• Data caching duration, login timeout and maximum concurrent threads allowed to fetch data from greenhopper is defined in *internal.conf.properties*.

• In Jira Administrator configuration page, admin can clear the greenhopper cache manually (Equal to internal.conf.clearcache.time)



• Overview:

```
#Greenhopper connection timeout. No timeout if value is 0
resourcebundle.project.timeout=60000
#Maximum records return by greenhopper json.
resourcebundle.search.maxrecords=10000
#Maximum number of concurrent threads
internal.conf.concurrent_thread=20
#Interval(hour) to clear the entire cache including greenhopper data (project list, epic links, test cycle list, assignee list) and gadget data.
internal.conf.clearcache.time=24
#Interval(minute) to clear cache (Greenhopper data not including gadget)
internal.conf.cleardatacache.time=1
#Time to live(minute).The time to live for each cached greenhopper gadget.
internal.conf.gadgetdata.timetolive=10
```

Test Execution Report Querying Rules:

- For Epic issue, fetch Test issue for the first children. If the original epic issue has multiple epic child issues, user story issues, test issues and each of these issues has multiple child then fetch only Test issues belong to the original epic and its user story.
- Only fetch Test issue with "is a test by" issue link for Story issue
- On the other hand, fetch all Test issues inside Epic issue, including Test with "is a test by" link
- Only fetch the newest test execution in Test issue.
- "PLANNED" test metric is gotten from customfield_14809 in return json query.
- "UNPLANNED" test metric is the sum of "PASSED" + "FAILED" + "UNEXECUTED" + "BLOCKED" + "WIP".

Possible Improvements

- Sonar Metric is hardcoded in database, append option to add new sonar metric in Jira Administrator configuration page.
- Greenhopper Test metric and Release are hardcoded in html, append option to add new test metric and Release in Jira Administrator configuration page.