Readme

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# 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:



1. 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

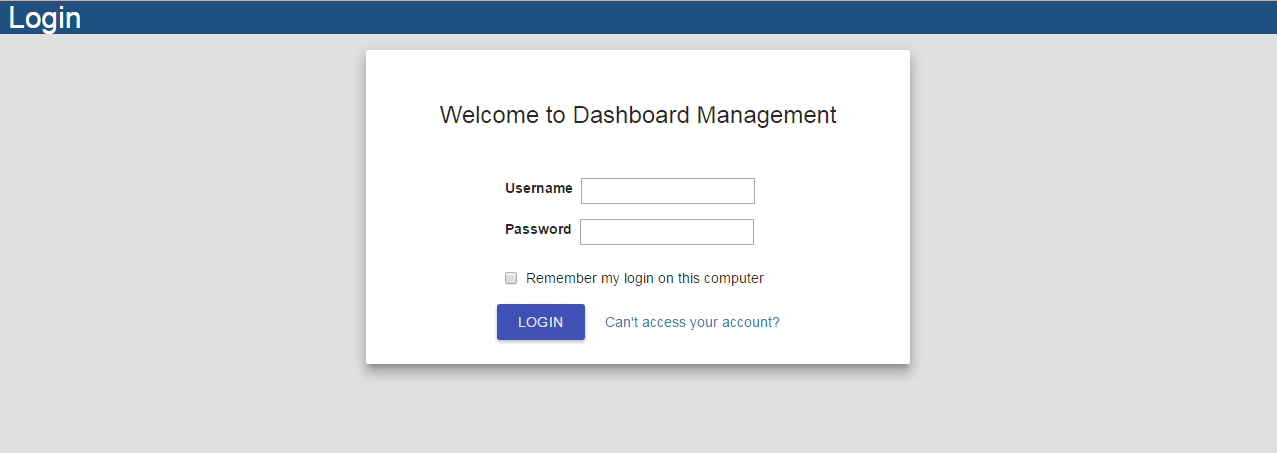
1. Run “mongod.exe” from “C:\Program Files\MongoDB\Server\3.2\bin\”.
2. At the root dir of project, run cmd with command “mvn package ninja:run”



# Instruction

## Application

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



* Toolbar
* Regular user

C:\Users\nnmchau\Desktop\toolbar.PNG

* Admin user



User’s name

Create new dashboard

User’s profile page

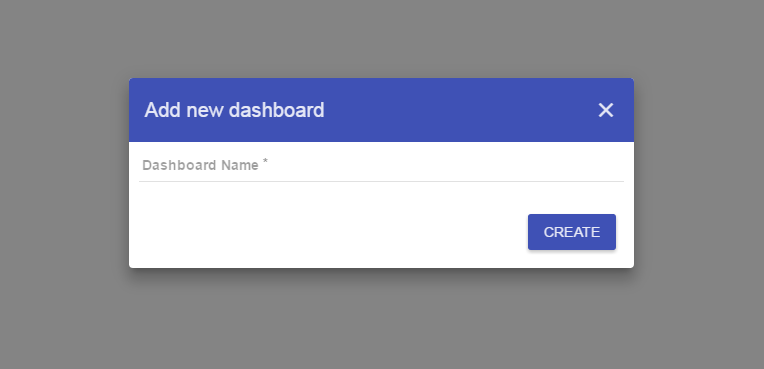
Configuration page for admin

Logout

## Dashboard

* Create Dashboard

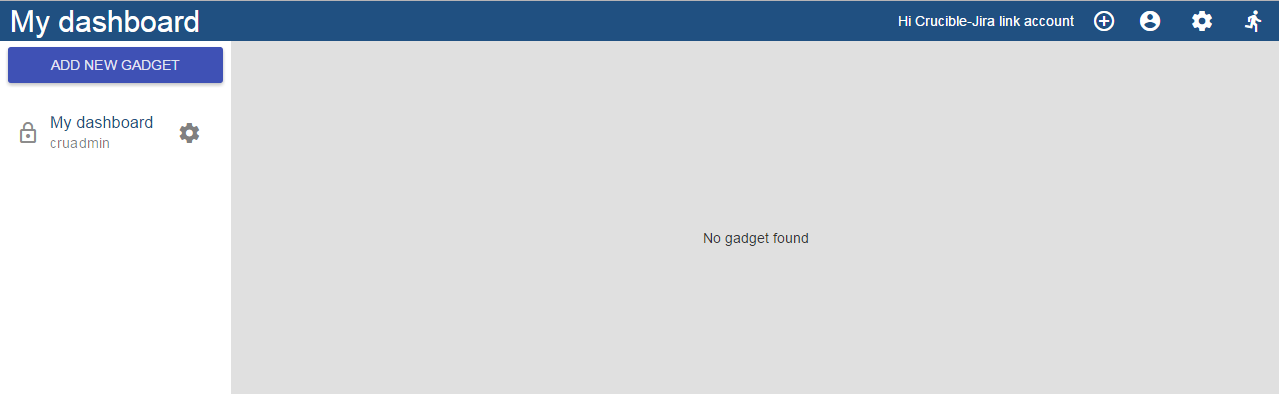
Click create new dashboard on tool bar.



Enter dashboard’s name here

And then click here to create new dashboard

* Dashboard main UI



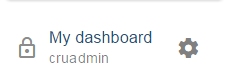
Dashboard list

Dashboard’s gadget list

Dashboard list item

Add new gadget button

* Dashboard list item



Dashboard privacy

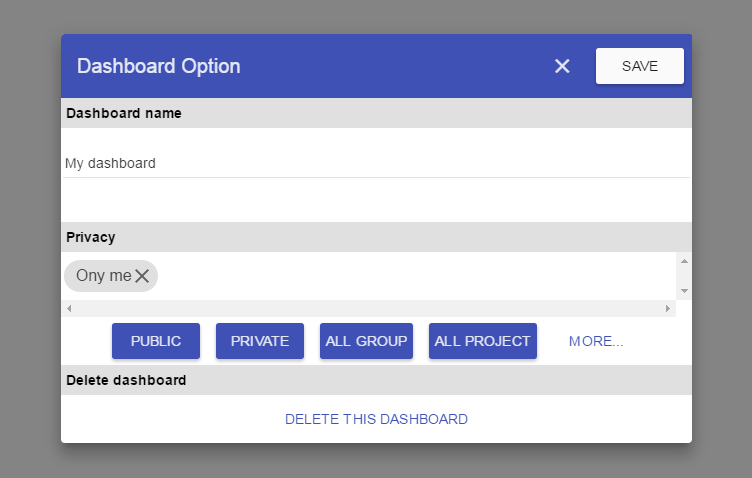
Dashboard owner

Dashboard option

Dashboard name

|  |  |
| --- | --- |
| Icon | Privacy status |
| C:\Users\nnmchau\AppData\Local\Temp\7zEC96B4444\ic_lock_outline_black_24dp_2x.png | private |
| C:\Users\nnmchau\AppData\Local\Temp\7zE4DEF8F75\ic_public_black_24dp_2x.png | public |
| C:\Users\nnmchau\AppData\Local\Temp\7zE066694F7\ic_people_outline_black_24dp_2x.png | Share to specific group or project |

* Dashboard option UI



Save option

Edit dasboard name

Privacy status

Quick action to change privacy

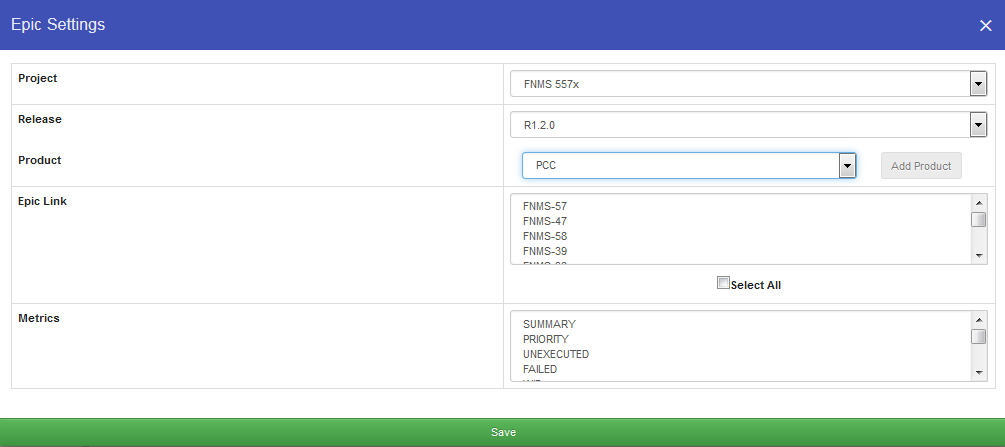
Show groups and projects

Delete dashboard

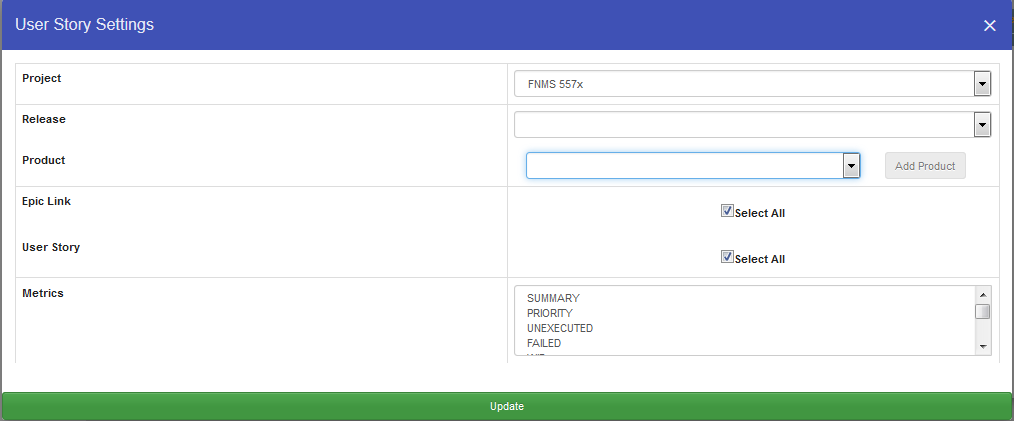
Close dialog

## Gadget:

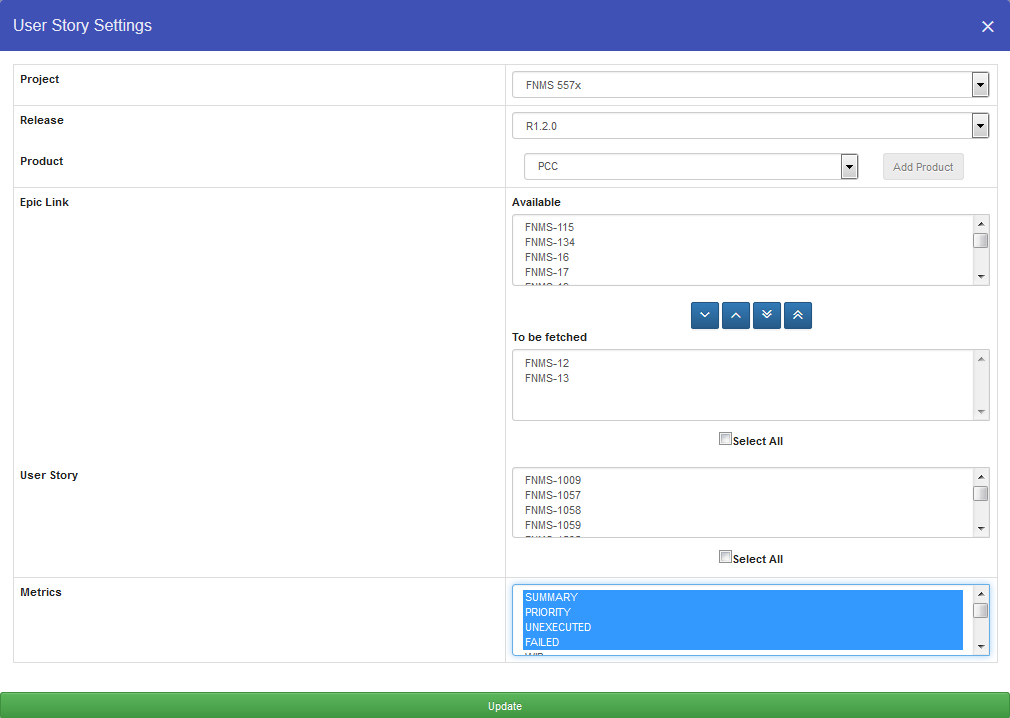
### New Epic Gadget Instance:

* 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:

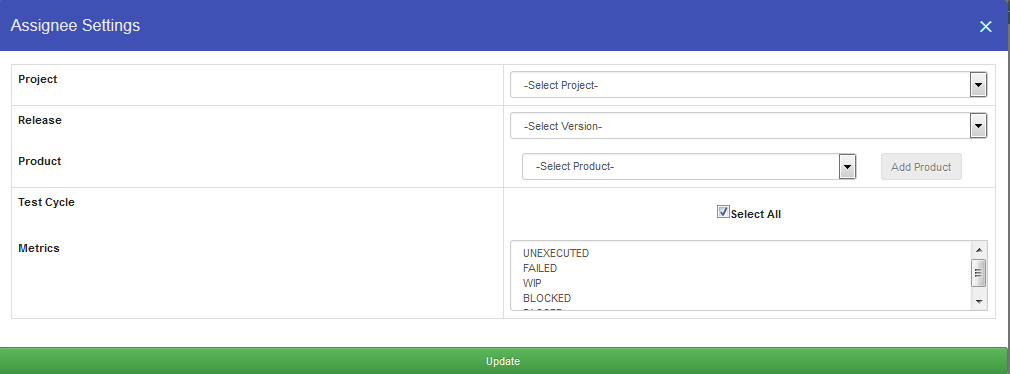
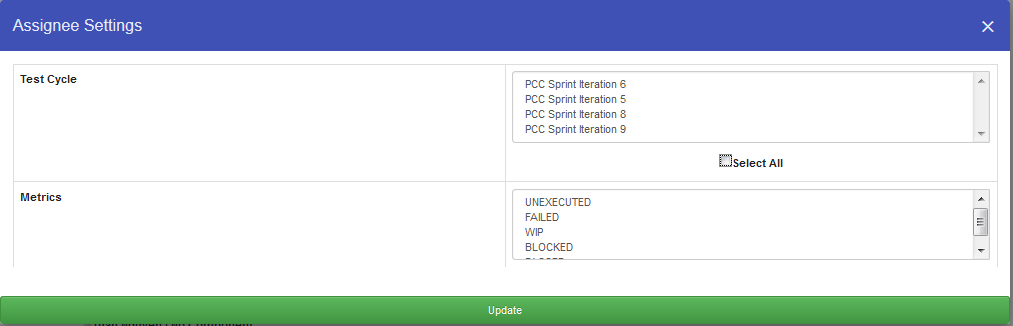


* After filling in project, release, product field. If epic link field is not “Select All". Database will query for a list of epic issue keys.By default epic links and user story are selected all.

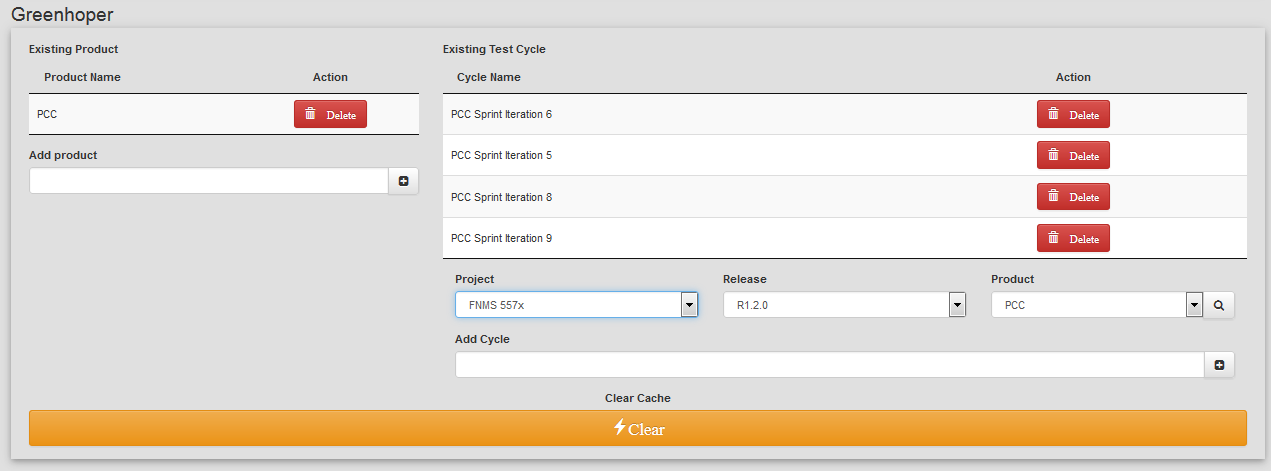


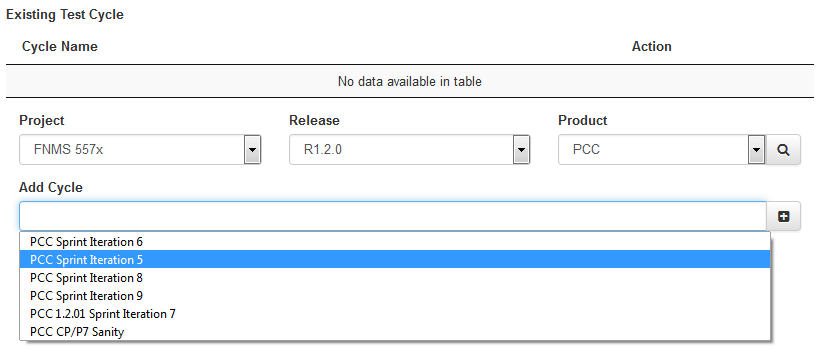
* After obtaining available epic links list, select available epic keys you want to fetch story issues.
* Select user story issue keys you want for the table then update.

### 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:

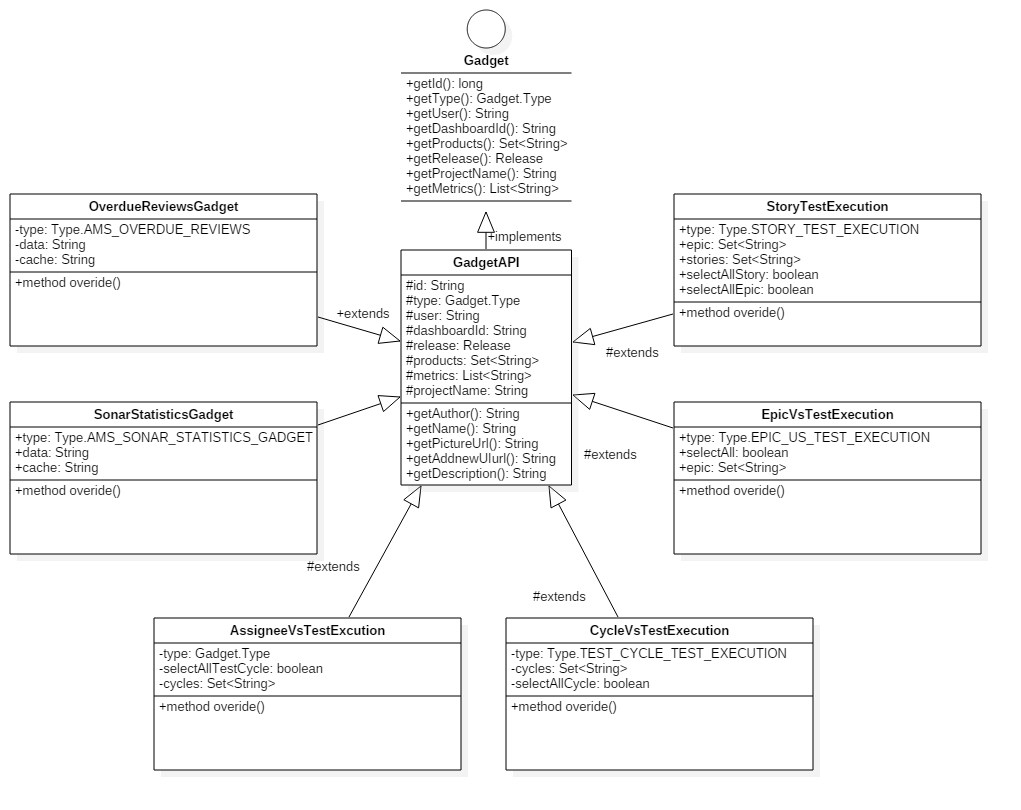
* As a Jira administrator, you can commission new Product and Test Cycle for user to choose from.

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

**C:\Users\dthehung\Downloads\Database (1).png**

# Back-end diagram

****

# Front-end diagram

**C:\Users\dthehung\Downloads\Untitled Diagram (1).png**

# 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.*
* 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 cache (Greenhopper data)

internal.conf.clearcache.time=24

#Interval(minute) to clear cache (Greenhopper data)

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.