



# Crucible and FishEye Basic

Presenter: An Nguyen

## Warm up - Introduction

- Who would be concerned ?
- SCM, Developers..
- After this course developer will have a basic knowledge about Crucible.

## Course Objectives

- At the end of the course, you will have acquired sufficient knowledge to:
- Download, install, licensing Crucible
- Create, configure for a new repositories, project
- Create, modify an review
- Create, manage users/groups

# Agenda

- What is Crucible ?
- Crucible and FishEye relationship
- Where/How to download, install Crucible and licensing
- How to connect to JIRA/SVN
- How to create, configure a new repositories, project
- How to create, modify an review
- Create a permission scheme
- Link permission schema to a project
- Using wiki markup
- Viewing review statistics

## Course Audience and Prerequisite

- The course is for Pm, developers, SCM who have a concern how to manage, review the code
- The following are prerequisites to
  - Windows base, Linux..
  - JDK, Tomcat..

## Duration and Course Timetable

- Course Duration: 3 hours
- Course Timetable:
  - From <time> to <time>
  - Break <x> minutes from <time> to <time>

## Set Up Environment

- To complete the course, your PC must install:
  - JDK 1.6.X or newer



## What is Crucible ?



## What is Crucible ?

- Code reviews = quality code. Review code, discuss changes, share knowledge, and identify defects with Crucible's flexible review workflow. It's code review made easy for Subversion, CVS, Perforce, and more.
- Flexible code reviews
- Threaded comments, inline discussions
- JIRA integration and more
- Iterative reviews
- Distributed teams

## Crucible (v3.4) supported platforms

- Java
  - Oracle JRE/JDK: 1.6, 1.7
  - OpenJDK 1.7 for Linux only
- Operating System
  - Windows, Linux, Mac OS X
  - Run on any platform with JRE or JDK installed
- Database
  - MySQL, PostgreSQL, Oracle, SQL Server, HSQLDB
- Version control systems
  - Subversion, CVS (and CVSNT), Perforce, Git, Mercurial

## Crucible + FishEye



- **FishEye** enables source version control repository information extraction and visualizing complex reports.
- **Crucible** enables code reviews management and performing.
- Both of these products can run in isolation but usually installed to work together on production environment
- Crucible installation package includes the files required for FishEye
- **FishEye** will manage repositories and user if installed with **Crucible**



**Where & how to download, install  
Crucible and licensing?**

## Where to download ? – For Windows

<https://www.atlassian.com/software/crucible/download>

### Download and Try Crucible Free for 30 Days

The Crucible download includes FishEye. FishEye functionality is only available with a valid FishEye license. If you are evaluating Crucible, an evaluation license is automatically generated for FishEye as well.

All Platforms

#### Crucible 3.4.4 64 bit Windows Installer

204.1 MB • Released 20-May-2014 ([Release notes](#) | [Upgrade notes](#) | [MD5](#))

Download

#### Crucible 3.4.4 32 bit Windows Installer

208.5 MB • Released 20-May-2014 ([Release notes](#) | [Upgrade notes](#) | [MD5](#))

Download

#### Crucible 3.4.4

159.4 MB • Released 20-May-2014 ([Release notes](#) | [Upgrade notes](#) | [MD5](#))

Download

**atlassian-crucible-3.4.4-x64.exe** ←

# Where to download ? – For Linux

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Download

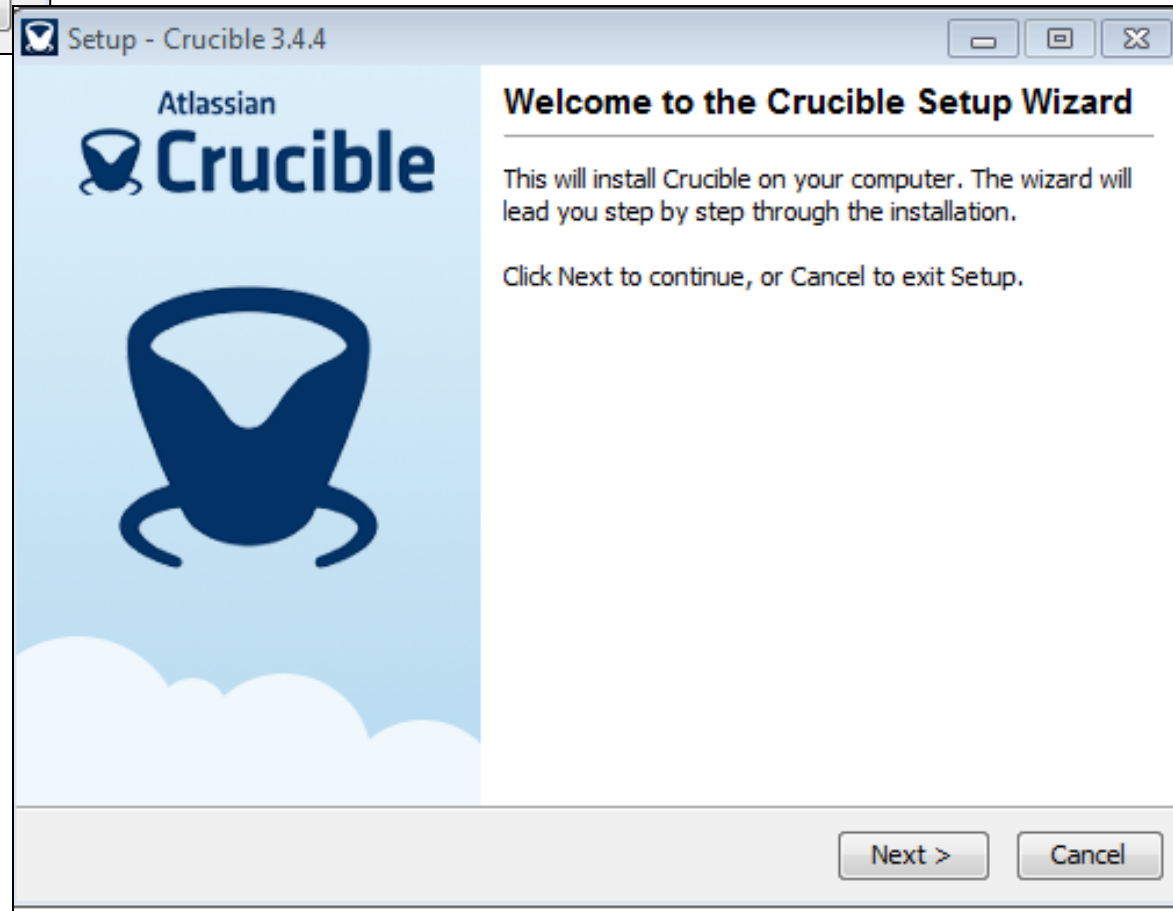
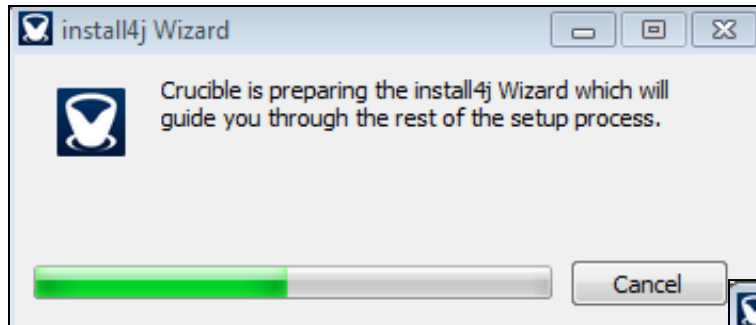
### Crucible 3.4.4

159.4 MB • Released 20-May-2014 ([Release notes](#) | [Upgrade notes](#) | [MD5](#))

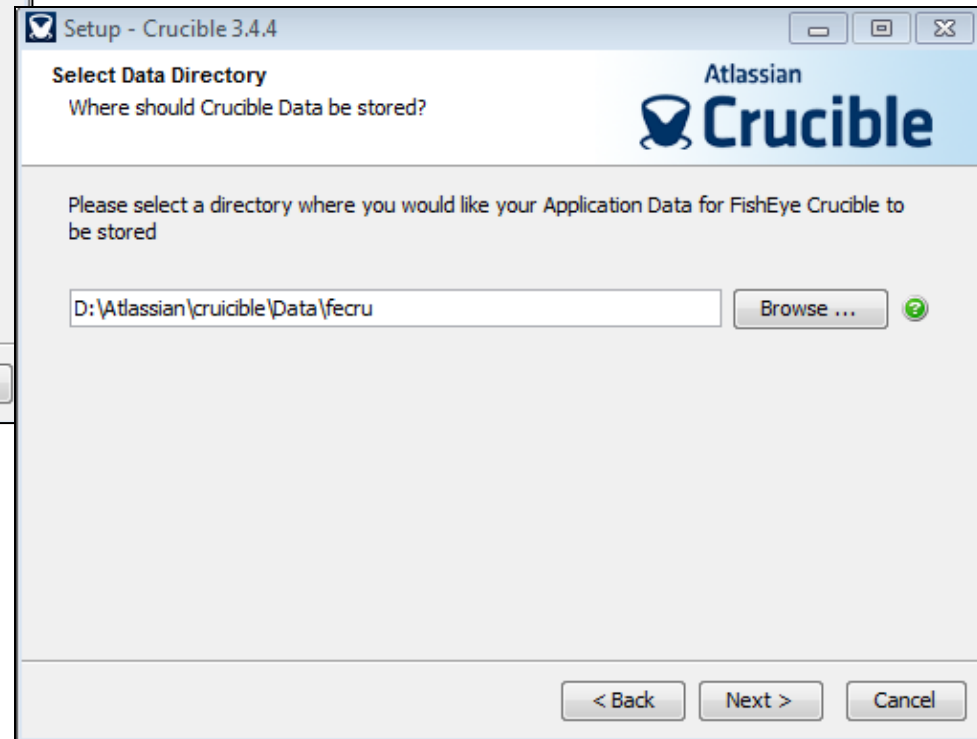
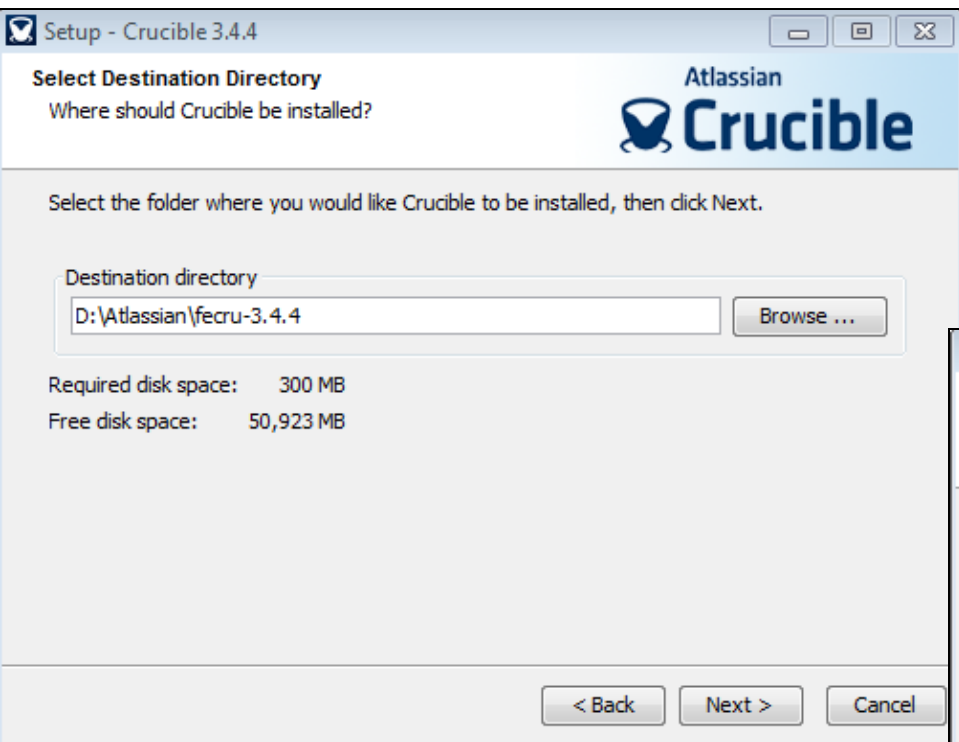
Download

**crucible-3.4.4.zip** ←

# Install Crucible – version for Windows

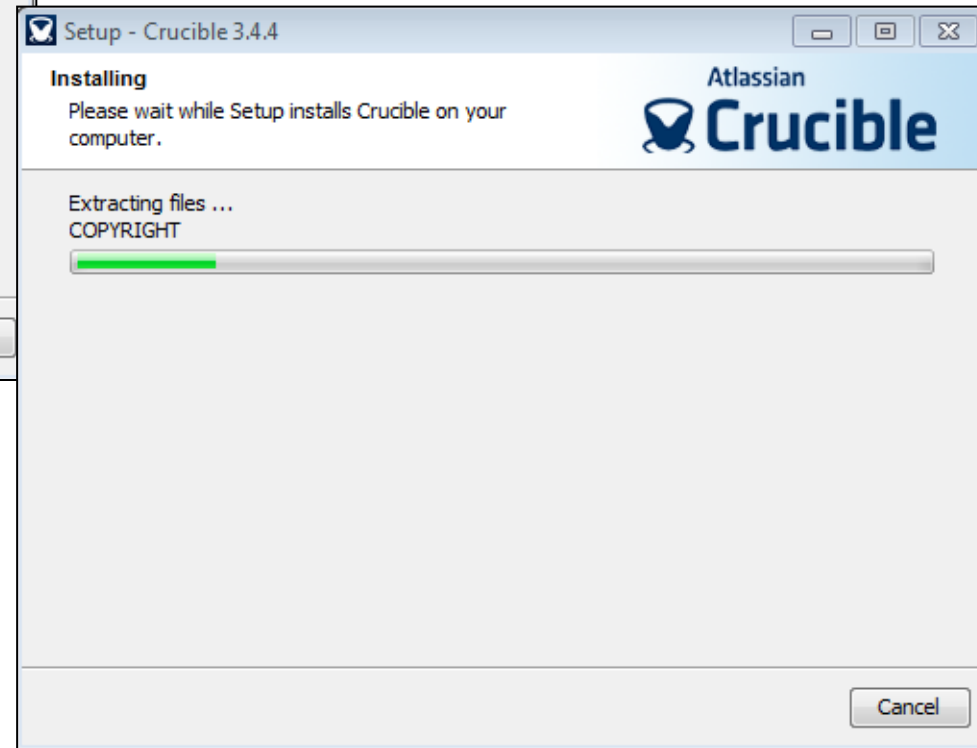
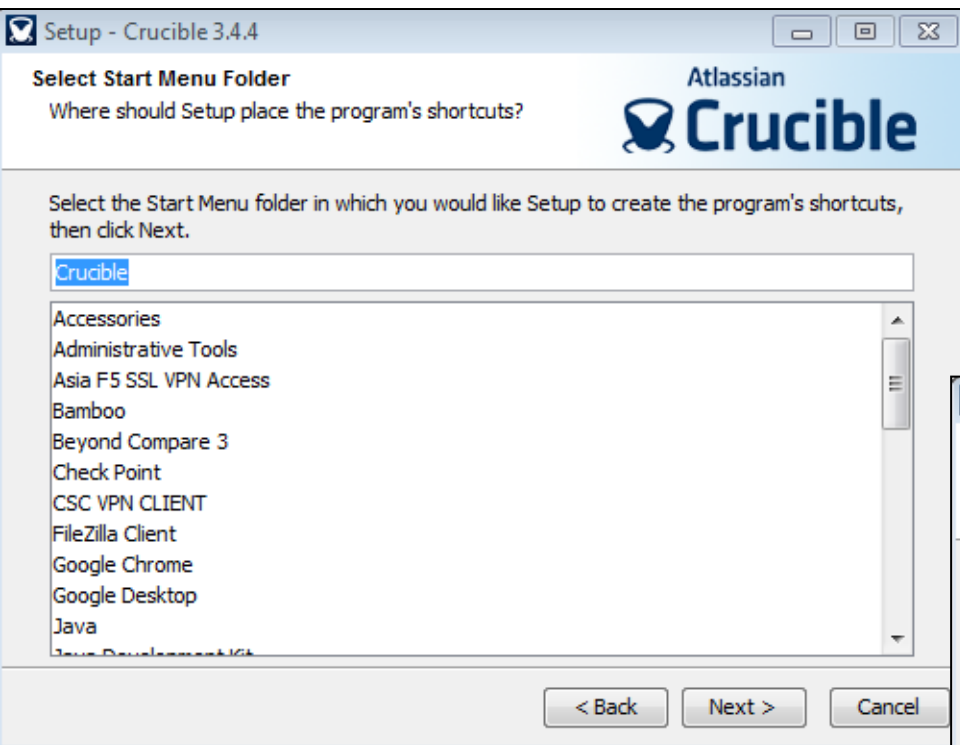


# Install Crucible – version for Windows (con't)

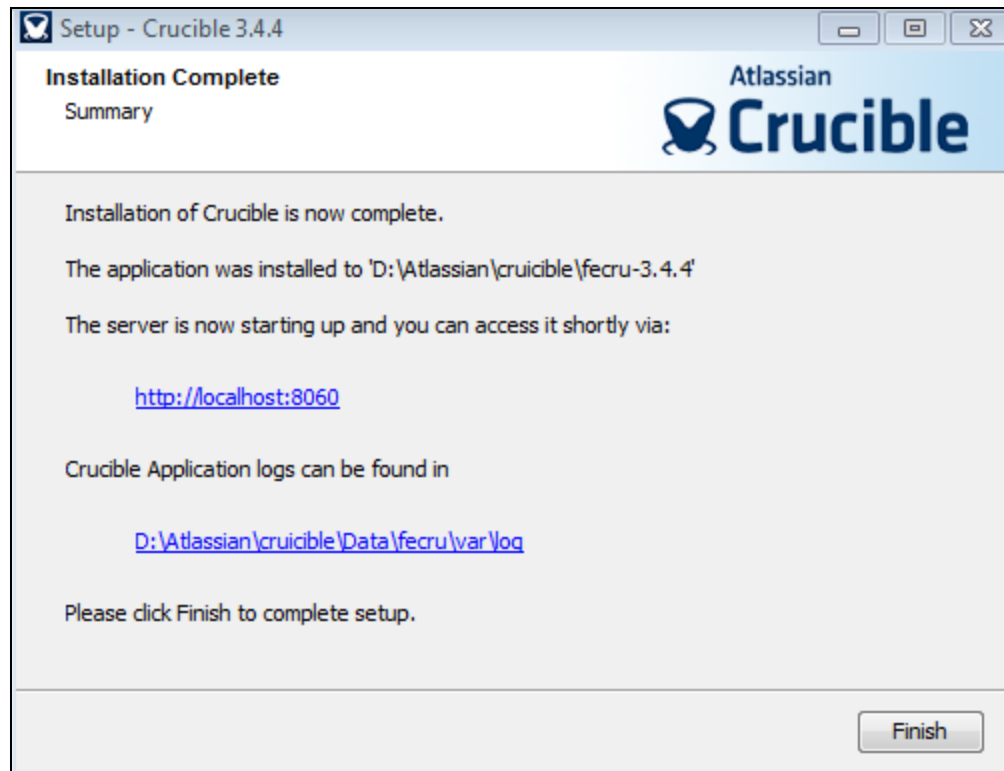




# Install Crucible – version for Windows (con't)



## Install Crucible – version for Windows (con't)



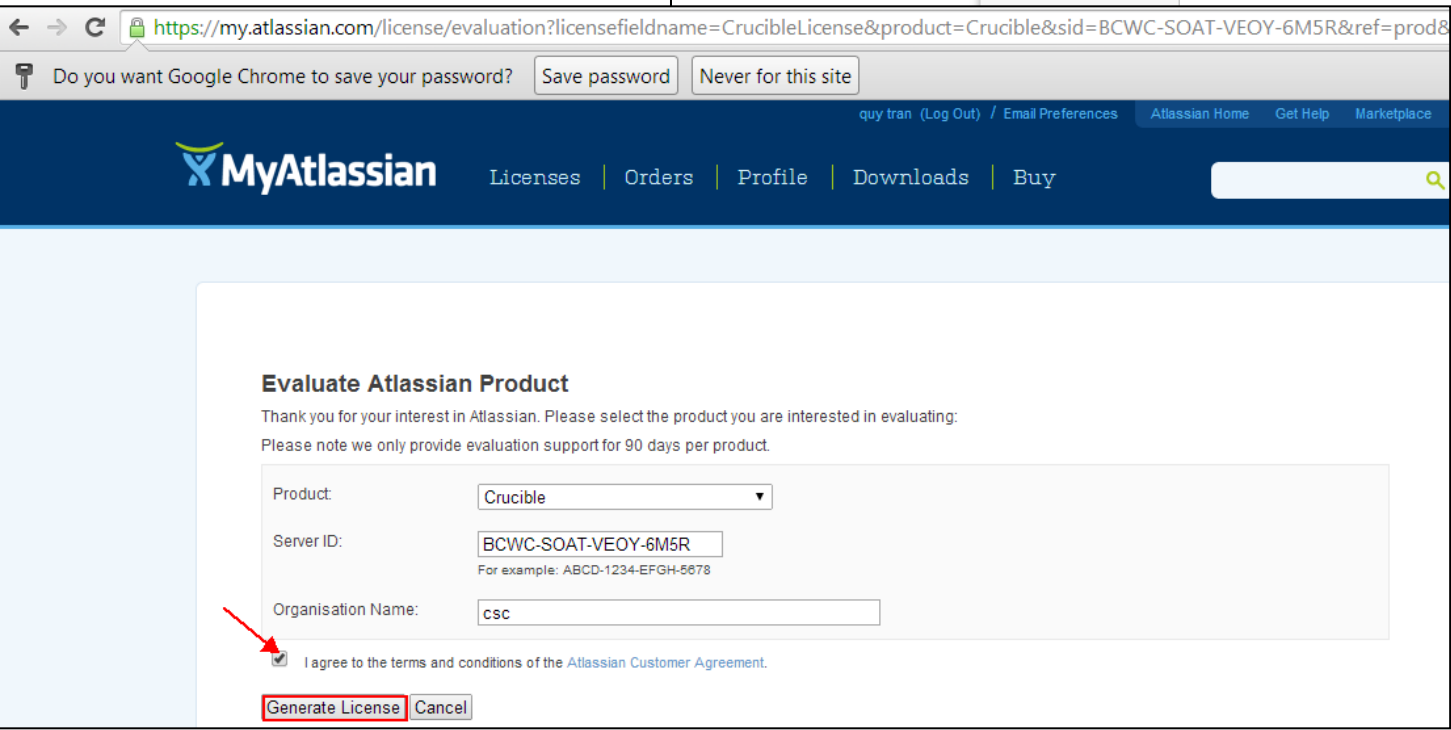
## Install Crucible – version for Linux

1. Check supported platforms
2. Download and install Java
  - Check java version
  - *Set JAVA\_HOME if not already set*
3. Create a dedicated user on the machine for Crucible
  - No admin privileges.
  - Should be a non-privileged user with read, write and execute access on the Crucible home (install) directory and instance (data) directory.
  - Should only have read access to your repositories
4. Download Crucible and extract to desired folder or run the installation wizard
  - <https://www.atlassian.com/software/crucible/download>

## Post installation configuration

- Setup Crucible data storage directory
  - Use the same storage directory as FishEye if installed
  - Make sure path to storage directory is different from Crucible home dir
  - Add environment variable `FISHEYE_INST="path/to/<FishEye instance directory>"`
  - Copy `/config.xml` from FishEye home dir to `FISHEYE_INST`
- Start
  - Crucible home dir/bin/start.bat or start.sh
- Stop
  - Crucible home dir/bin/stop.bat or stop.sh

# Licensing



# Licensing (con't)

Welcome to the Crucible setup 3.4.4

**1. License**

**2. Inclusions**

**3. Connect to JIRA**

**4. Admin Password**

**5. Done**

✓ Success! Your license key has been accepted.

**Please Note!**

This evaluation version of Crucible runs together with FishEye, Atlassian's powerful repository browsing and monitoring tool.

Crucible is significantly enhanced by FishEye's search and browse capabilities. [Learn more](#)

**FISHEYE**

Revisions	Activity	Users	Reports	Source	Reviews
1151	1151	padding-left: 20px	1151	1151	padding-left: 20px
1152	1152	margin-left: 20px	1152	1152	margin-left: 20px
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1189	1189	margin-left: 20px	1189	1189	margin-left: 20px
1190	1190	margin-left: 20px	1190	1190	margin-left: 20px
1191	1191	margin-left: 20px	1191	1191	margin-left: 20px
1192	1192	margin-left: 20px	1192	1192	margin-left: 20px
1193	1193	margin-left: 20px	1193	1193	margin-left: 20px
1194	1194	margin-left: 20px	1194	1194	margin-left: 20px
1195	1195	margin-left: 20px	1195	1195	margin-left: 20px
1196	1196	margin-left: 20px	1196	1196	margin-left: 20px
1197	1197	margin-left: 20px	1197	1197	margin-left: 20px
1198	1198	margin-left: 20px	1198	1198	margin-left: 20px
1199	1199	margin-left: 20px	1199	1199	margin-left: 20px
1200	1200	margin-left: 20px	1200	1200	margin-left: 20px

Next

→ Now the license key has been accepted

A grayscale background image showing a pair of hands holding a large, curved, white architectural model. The hands are positioned on the left and right sides of the model, which is held up and slightly curved. The background is blurred, showing what appears to be a desk with some papers or a keyboard.

## How to connect to Jira, create & configure a new repositories, project?

## Connect to JIRA



Welcome to the Crucible setup 3.4.4

1. License

2. Inclusions

3. Connect to JIRA

4. Admin Password

5. Done

### Connect to JIRA

If you have JIRA 4.3 or later, Crucible can use JIRA for user management. This is not recommended for more than 500 users. [Learn more here.](#)

JIRA Base URL:


For example: <http://jira.mycompany.com> or <http://mycompany.com/jira>

Admin Username:

This username must have system administrator rights on your JIRA server.

Admin Password:

[Advanced Options...](#)



Welcome to the Crucible setup 3.4.4

1. License

2. Inclusions

3. Connect to JIRA

4. Admin Password

5. Done

### Set administrator password

The administrator password can be used to access the Administration section of Crucible.

Create password:

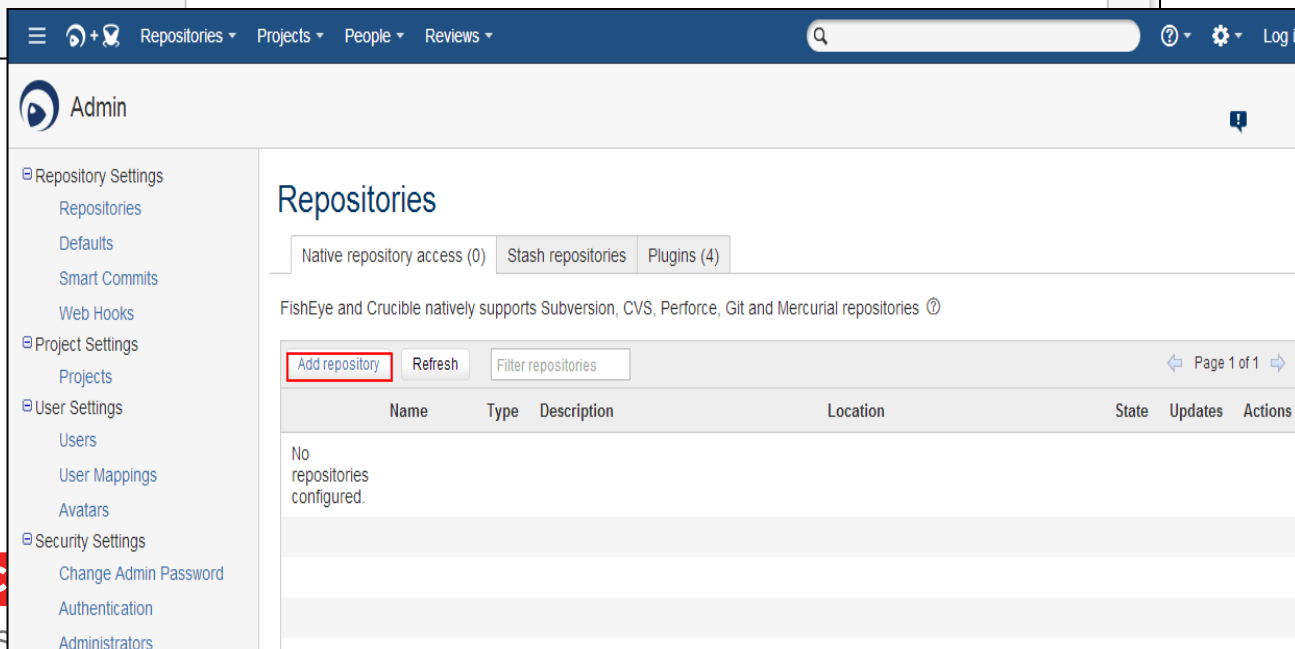
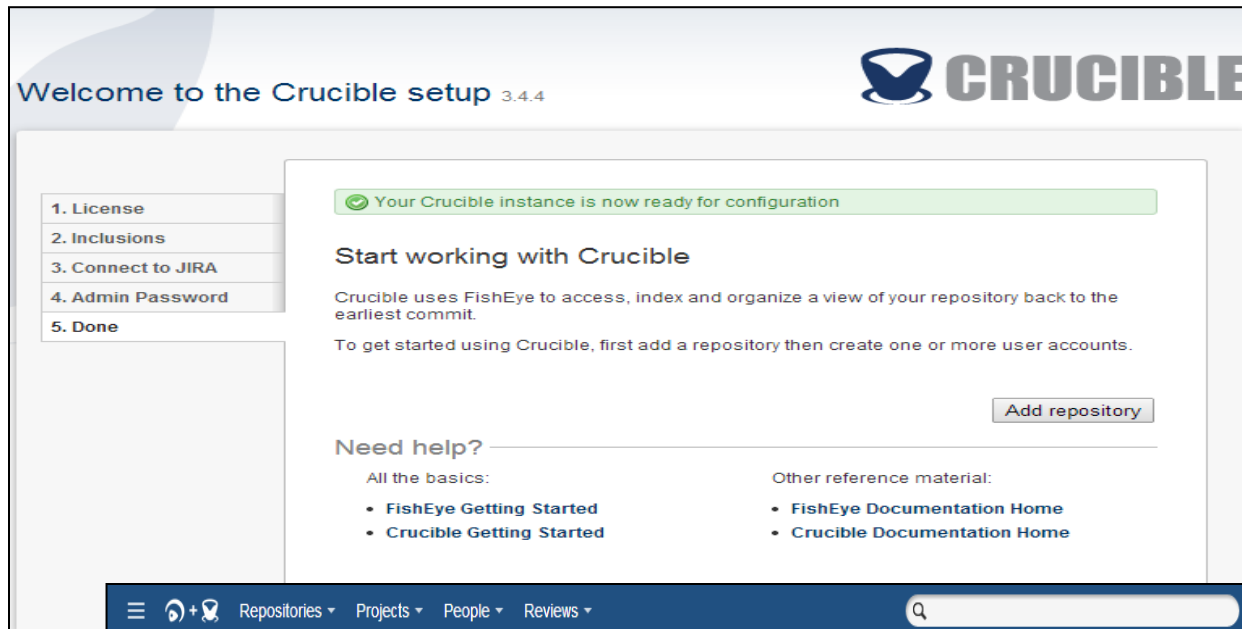
Confirm password:

[Next](#)

-It requires to put the admin password  
-Put the password then click on "Next" button



# Create a repository



- Log in as Administration account
- Chose Repositories tab
- Click on Add repositories button

## Create a repository (con't)

Add Repository - Page 1 of 3

**Basic Details**

Repository Type:

Name:  ?

Description:  ?

- Chose repositories type
- Name for Repositories

Add Repository - Page 2 of 3

**SVN Connection Details**

SVN URL:  ?

Path:  ?  
The sub-tree within your repository that FishEye should index and display. If this value is '.' (or empty), then the whole repository will be indexed and displayed.

Username:  ?

Password:  ?

☐ Show advanced settings

- Put the SVN link
- User name
- Password
- Click on “Test Connection” for test
- Click on Next button

# Create a repository (con't)

## Testing Connection

Repository URL `http://20.203.6.93/repos/INTEGRAL/BASE/Trunk/Integral7.7/Life` does not match  
URL returned from repository: `http://20.203.6.93/repos/INTEGRAL`  
Connection succeeded..

Close

## Add Repository - Page 3 of 3

### Final Settings

Store Diff Info: ☒

Enable Repository ☒

After Adding:

### Checkout URL

Users can see a URL for checking out the repository's code.

☒ Use the system default settings for showing checkout urls

Show URL ☒

URL

Test Connection

Back

Next

Add

Cancel

- Click on  
“Add” button

## Repositories

Native repository access (1)

Stash repositories

Plugins (4)

FishEye and Crucible natively supports Subversion, CVS, Perforce, Git and Mercurial repositories

Add repository

Refresh

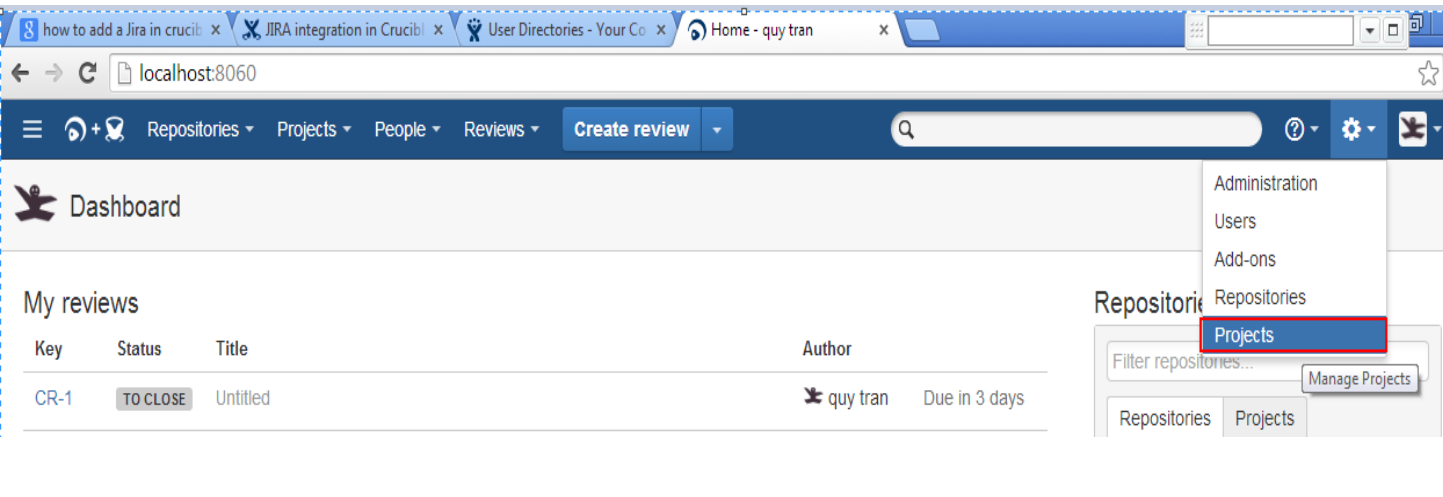
Filter repositories

Page 1 of 1

Name	Type	Description	Location	State	Updates	Actions
Integral-Life	Subversion	this SVN is for Integral-Life	http://20.203.6.93/repos/INTEGRAL/BASE/Trunk/Integral7.7/Life	Running	Queued	
<div>  Info           Re-creating cross-repository index         </div>						

- After creating  
successfully a  
Repositories

# Create a Project



- Log in as Administration account
- Chose Project tab
- Click on “Add a new Project” button

## Projects <sup>?</sup>

A project is a set of Crucible content combined with a set of customisable FishEye content.

Key	Name	Default Repository	Default Moderator	Default Reviewer Users	Default Reviewer Groups	Default Review Time	Crucible Settings
AA-1	AAA	Group	user 1			No time restriction	<a href="#">Edit</a>   <a href="#">Delete</a>
CR	Default Project					5 weekdays	<a href="#">Edit</a>

[Add a new project](#)

# Create a Project (con't)

## Edit Project ⓘ

### Identification

Name

Key

### Content

Default Repository

☒ Store the contents of files in reviews

### Permissions scheme ⓘ

Permission scheme

### Moderator ⓘ

☒ Enable the Moderator role for this project

Default moderator

### Default reviewers ⓘ

☐ By default, allow anyone to join reviews after creation

Users

Groups  Start typing a group name then press enter to select.

### Allowed review participants ⓘ (Leave blank to let all users access this project)

Users

Groups  Start typing a group name then press enter to select.

### Review duration ⓘ

Default duration

Default duration in week days

### Default review objectives ⓘ

Default objectives

Preview

**Save** Cancel

- Put all the  
info of Project  
- Click on  
“Save” button

# Create a Project (con't)

## Projects <sup>?</sup>

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AA-1	AAA	Group	user 1			No time restriction	<a href="#">Edit</a>   <a href="#">Delete</a>
CR	Default Project					5 weekdays	<a href="#">Edit</a>

Add a new project

# Create a new User

- Users are inherited from Jira
- Users can be created :
- Log in as admin user
- Chose User tab
- Click on Add users
- Put all info required
- Click on “Add” button

## Users ⓘ

The User Browser allows you to browse all the users in the system. Filters allow you to limit the users that you see.  
Displaying users 1 to 5 of 5. [Reset filter](#)

Filter  In group Any  Add user

User	Display name	Email	Auth	Admin	Action
★ Inguyen58	Nguyen Cong Long	Inguyen58@csc.com	crowd	true	<a href="#">Delete</a>   <a href="#">Logout</a>   <a href="#">Rename</a>   <a href="#">Reset Captcha</a>   <a href="#">Edit</a> <input type="checkbox"/>
✈ qtran	quy tran	qtran22@csc.com	crowd	true	<a href="#">Delete</a>   <a href="#">Logout</a>   <a href="#">Rename</a>   <a href="#">Reset Captcha</a>   <a href="#">Edit</a> <input type="checkbox"/>
★ u1	user 1	u1@csc.com	crowd	false	<a href="#">Delete</a>   <a href="#">Logout</a>   <a href="#">Rename</a>   <a href="#">Reset Captcha</a>   <a href="#">Edit</a> <input type="checkbox"/>
★ u2	user 2	u2@csc.com	crowd	false	<a href="#">Delete</a>   <a href="#">Logout</a>   <a href="#">Rename</a>   <a href="#">Reset Captcha</a>   <a href="#">Edit</a> <input type="checkbox"/>
★ u3	User u3	u3@csc.com	built-in	false	<a href="#">Delete</a>   <a href="#">Logout</a>   <a href="#">Rename</a>   <a href="#">Reset Captcha</a>   <a href="#">Edit</a> <input type="checkbox"/>

Bulk actions Delete

## Add New User ⓘ

### Information about the new user

Username

Display name

Email

☒ Enabled in Crucible

Auth type built-in

Password

Confirm password

Add

## Users ⓘ

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Displaying users 1 to 6 of 6. [Reset filter](#)

Filter  In group Any  Add user

User	Display name	Email	Auth	Admin	Action
★ Inguyen58	Nguyen Cong Long	Inguyen58@csc.com	crowd	true	<a href="#">Delete</a>   <a href="#">Logout</a>   <a href="#">Rename</a>   <a href="#">Reset Captcha</a>   <a href="#">Edit</a> <input type="checkbox"/>
✈ qtran	quy tran	qtran22@csc.com	crowd	true	<a href="#">Delete</a>   <a href="#">Logout</a>   <a href="#">Rename</a>   <a href="#">Reset Captcha</a>   <a href="#">Edit</a> <input type="checkbox"/>
★ u1	user 1	u1@csc.com	crowd	false	<a href="#">Delete</a>   <a href="#">Logout</a>   <a href="#">Rename</a>   <a href="#">Reset Captcha</a>   <a href="#">Edit</a> <input type="checkbox"/>
★ u2	user 2	u2@csc.com	crowd	false	<a href="#">Delete</a>   <a href="#">Logout</a>   <a href="#">Rename</a>   <a href="#">Reset Captcha</a>   <a href="#">Edit</a> <input type="checkbox"/>
★ u3	User u3	u3@csc.com	built-in	false	<a href="#">Delete</a>   <a href="#">Logout</a>   <a href="#">Rename</a>   <a href="#">Reset Captcha</a>   <a href="#">Edit</a> <input type="checkbox"/>
★ u4	User u4	u4@csc.com	built-in	false	<a href="#">Delete</a>   <a href="#">Logout</a>   <a href="#">Rename</a>   <a href="#">Reset Captcha</a>   <a href="#">Edit</a> <input type="checkbox"/>

Bulk actions Delete

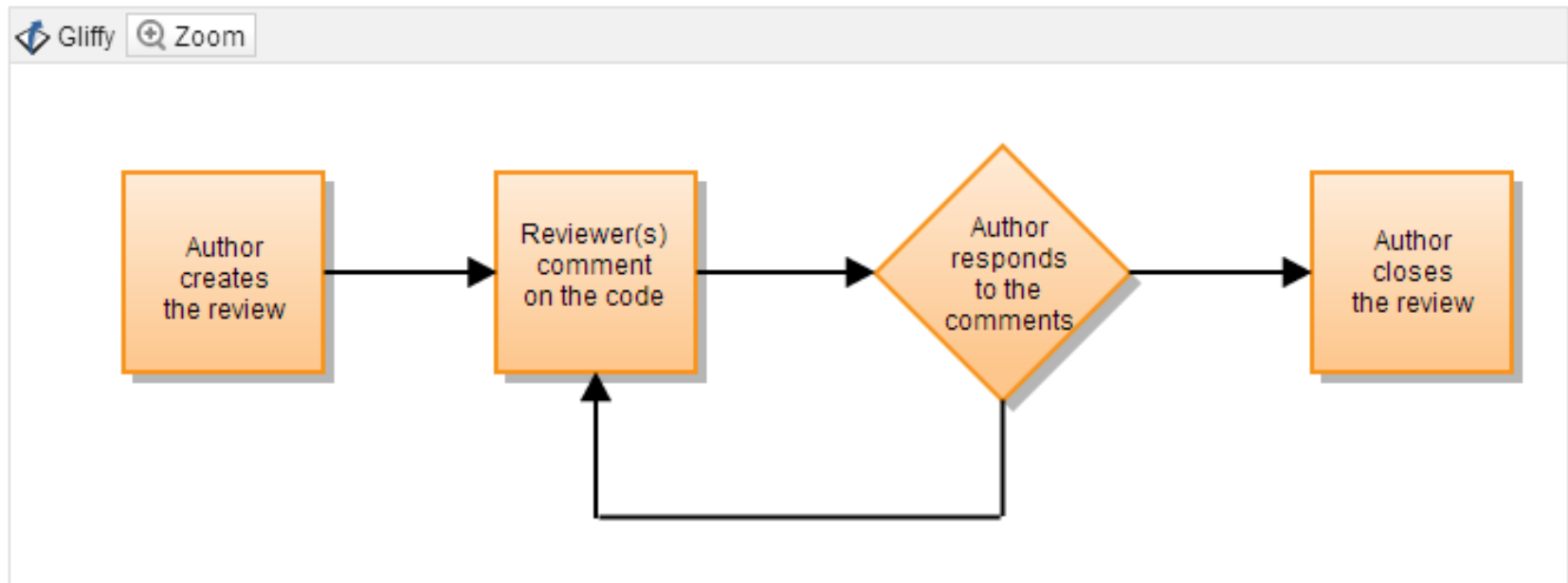


## How to create, modify a review?

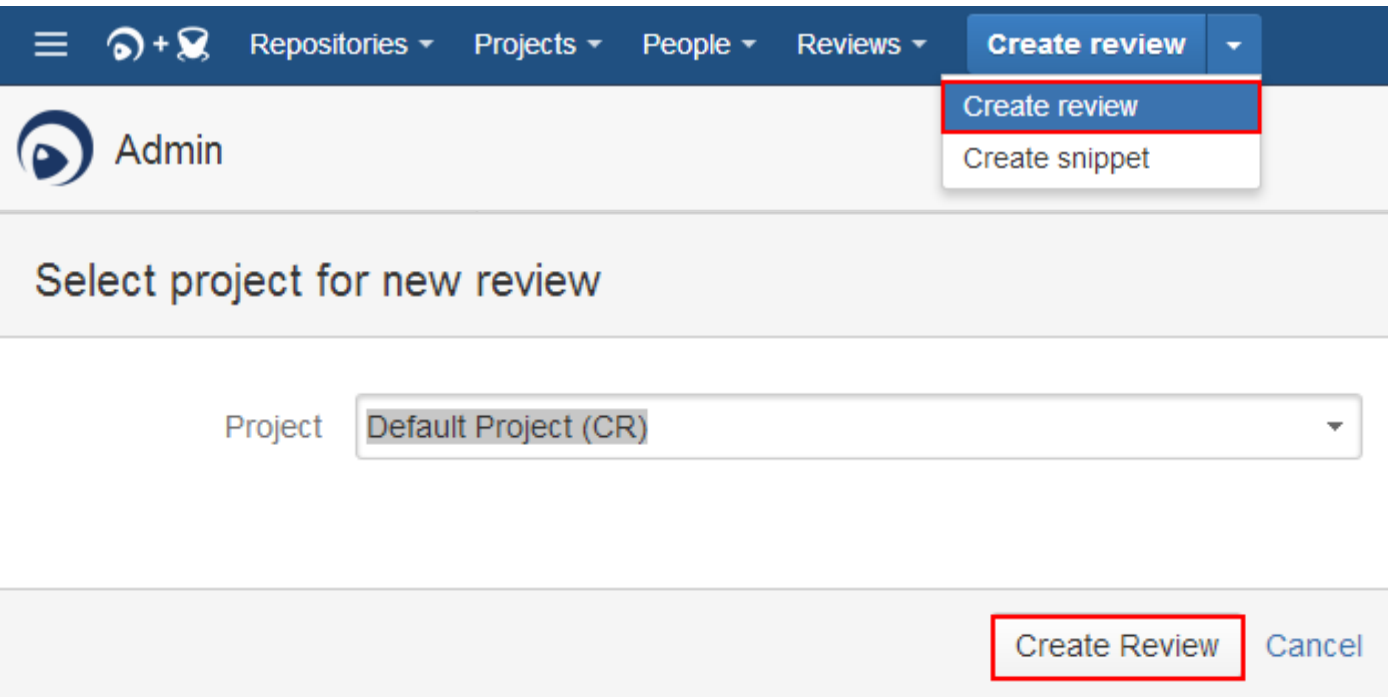


# Review process

Diagram: Workflow for One-to-One Reviews



## Create a review



Admin

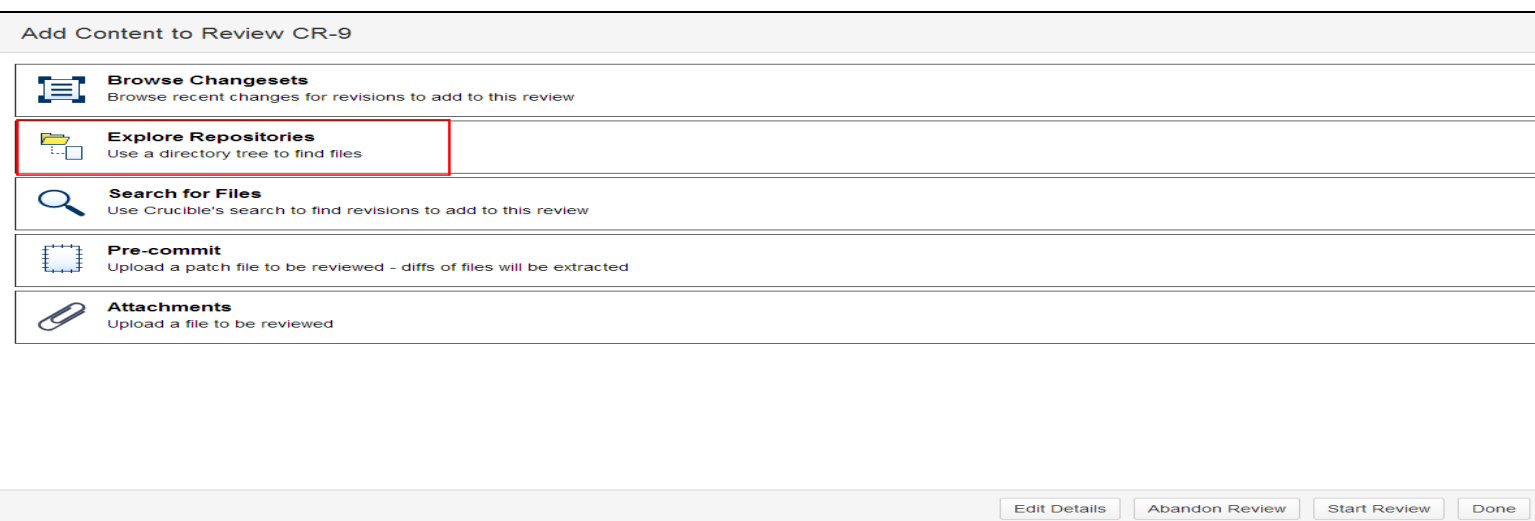
Select project for new review

Project

[Create Review](#) [Cancel](#)

- Log in as Admin user
- Chose Create review tab

- Chose Project to review
- Click on "Create Review" button



Add Content to Review CR-9

**Browse Changesets**  
Browse recent changes for revisions to add to this review

**Explore Repositories**  
Use a directory tree to find files

**Search for Files**  
Use Crucible's search to find revisions to add to this review

**Pre-commit**  
Upload a patch file to be reviewed - diffs of files will be extracted

**Attachments**  
Upload a file to be reviewed

[Edit Details](#) [Abandon Review](#) [Start Review](#) [Done](#)

- Click on "Edit Detail" button

# Update a review

**Edit Review Details CR-9**

Project: CR

Title: [Click to add title](#)

Author: **quy tran** Moderator: **quy tran**

Reviewers:  [Suggest reviewers...](#) ☒ Allow anyone to join

user 1

user 2

Objectives:

Due Date:

Linked Review:  [Link](#)

Linked Issue:  [Link](#)

Invited Reviewers:  [Invite](#)

☒ u1; ☒ u2;

[Add Content](#) [Abandon Review](#) [Start Review](#) [Done](#)

- Add the users who will review code (u1, u2).
- Write an object for review
- Click on “Start Review” button.

**Default Project CR-11** [Edit Details](#) [Close](#) [Tools](#)

**OPEN** for a few seconds | due in 6 days

*Untitled*

CR-11

[Details](#) [Objectives](#) [General Comments](#)

Number of files included: 0

**Details** [Edit](#)

Participant	Role	Time Spent	Comments	Latest Comment
<a href="#">quy tran</a>	Author & Moderator	0m		
<a href="#">user 2</a>	Reviewer - 0% reviewed			
<a href="#">user 1</a>	Reviewer - 0% reviewed			
<b>Total</b>		<b>0m</b>	<b>0</b>	

**Objectives** [Edit](#)

review code with u1,u2

**General Comments** [Edit](#)

There are no general comments on this review. [Add a general comment.](#)

- We are on a review now.
- Click on the “+” to add the content
- Content means the chosen source code to review

# Add content to a review

## Add Content to Review CR-11

Repository:

Add to Review as:  [Remove all revisions from review](#)

Files in Group/

- CSGroupAsiaApp/
- CSGroupAsiaEAR/
  - src/main/application/META-INF/
    - pom.xml
- CSGroupAsiaWeb/
  - src/main/
    - java/com/
      - csc/groupasia/web/
        - AppConfigListener.java
        - AppVarsBuilder.java
        - AppVarsManagementFilter.java
        - AppVarsPostProcessor.java
        - EncodingFilter.java
        - FirstServlet.java
        - GroupAsiaControllerServlet.java
        - LoginServlet.java
        - LogoutServlet.java
        - ScreenToControllerMap.java
        - SessionAppVarsStore.java
        - SessionCleaner1.java
        - TestServlet.java
        - UIServlet.java

NAME	REV
<input checked="" type="checkbox"/> AppConfigListener.java	125816 by Nguyen58
<input checked="" type="checkbox"/> AppVarsBuilder.java	125816 by Nguyen58
<input checked="" type="checkbox"/> AppVarsManagementFilter.java	125816 by Nguyen58
<input type="checkbox"/> AppVarsPostProcessor.java	125816 by Nguyen58
<input type="checkbox"/> EncodingFilter.java	125816 by Nguyen58
<input type="checkbox"/> FirstServlet.java	125816 by Nguyen58
<input type="checkbox"/> GroupAsiaControllerServlet.java	125816 by Nguyen58
<input type="checkbox"/> LoginServlet.java	125816 by Nguyen58
<input type="checkbox"/> LogoutServlet.java	125816 by Nguyen58
<input type="checkbox"/> ScreenToControllerMap.java	125816 by Nguyen58
<input type="checkbox"/> SessionAppVarsStore.java	125816 by Nguyen58
<input type="checkbox"/> SessionCleaner1.java	125816 by Nguyen58
<input type="checkbox"/> TestServlet.java	125816 by Nguyen58
<input type="checkbox"/> UIServlet.java	125816 by Nguyen58

[Add More Content](#) [Edit Details](#) [Abandon Review](#) [Done](#)

- Browse to Project to add files that need to review
- After files are chosen, click on “Done” button

## Add content to a review (con't)

CR-11

Details

Participant	Role	Time Spent	Comments	Latest Comment
<a href="#">quy.tran</a>	Author & Moderator	1m		
<a href="#">user 2</a>	Reviewer - 0% reviewed			
<a href="#">user 1</a>	Reviewer - 0% reviewed			
<b>Total</b>		<b>1m</b>	<b>0</b>	

**Objectives** [Edit](#)

review code with u1,u2

**General Comments**

There are no general comments on this review. [Add a general comment.](#)

Details

Objectives

General Comments

Number of files included: 3

Group (root)

CSCGroupAsiaWeb/src/main/java/com/csc/gr...

[AppConfigListener.java](#)

[AppVarsBuilder.java](#)

[AppVarsManagementFilter.java](#)

/CSCGroupAsiaWeb/.../web/AppConfigListener.java **Added**

125816

[Add a file comment.](#) Click on source lines to add an inline comment.

1 package com.csc.groupasia.web;

who code this line ?

Autosaved at 10:09 AM

```

2
3 import javax.servlet.ServletContext;
4 import javax.servlet.ServletContextEvent;
5 import javax.servlet.ServletContextListener;
6 import javax.xml.parsers.FactoryConfigurationError;
7
8 import com.quipoz.framework.util.AppConfig;
9 import com.quipoz.framework.util.log.QFLogger;
10
11 /**
12  * Class to initialize AppConfig on start up
13  *
14  * @author htran50
15  *
16  */
17 public class AppConfigListener implements ServletContextListener {
18
19     @Override
20     public void contextDestroyed(ServletContextEvent contextEvent) {
21
22     }
23
24     @Override
25     public void contextInitialized(ServletContextEvent contextEvent) {
26         configLogging();
27

```

- The chosen files are ready for review

- Click on the file to review

- Chose the code review

- Click at the line of code

- A text box appear then we can write the comment in here

- After writing comment click on "Post" button

## Add content to a review (con't)

Default Project  
CR-11

OPEN for a few minutes | due in 6 days

Ticket #IBD-1338 Create the branch Integrall7.7 in Trunk

Author   
Moderator   
Reviewers

CR-11 2

Details  
Objectives  
General Comments  
Number of files included: 3  
Group (root):  
CSCGroupAsiaWeb/src/main/java/com/csc/gr  
AppConfigListener.java 2  
AppVarsBuilder.java  
AppVarsManagementFilter.java

/CSCGroupAsiaWeb/.../web/AppConfigListener.java Added 2

125816

Add a file comment. Click on source lines to add an inline comment.

1 package com.csc.groupasia.web;

quy.tran says: 10:09  
who code this line ?  
Reply Leave Unread Create Issue

u2 code this line, but he is died....

Post Cancel

Quote Source

```
2
3 import javax.servlet.ServletContext;
4 import javax.servlet.ServletContextEvent;
5 import javax.servlet.ServletContextListener;
6 import javax.xml.parsers.FactoryConfigurationError;
7
8 import com.quipoz.framework.util.AppConfig;
9 import com.quipoz.framework.util.log.QPLogger;
10
```

- User u1 log in
- Open the review CR-11
- U1 will see the comments
- U1 review code and write his comment also
- Then u1 post his comment by click on “Post” button

## Add content to a review (con't)

Default Project  
CR-11

OPEN for 11 mins | due in 6 days

Ticket #IBD-1338 Create the branch Integrall7.7 in Trunk

Author

Moderator

Reviewers

CR-11 2

Details  
Objectives  
General Comments  
Number of files included: 3

Group (root.)

- CSCGroupAsiaWeb/src/main/java/com/csc/gro
  - AppConfigListener.java 2
  - AppVarsBuilder.java
  - AppVarsManagementFilter.java

/CSCGroupAsiaWeb/.../web/AppConfigListener.java Added 2

125816

[Add a file comment.](#) Click on source lines to add an inline comment.

quv tran says: 10:09

who code this line ?

[Reply](#) [Leave Unread](#) [Create Issue](#) [comment on skipped line 1](#)

user 1 says: 10:12

u2 code this line, but he is died....

[Reply](#) [Leave Unread](#) [Create Issue](#) [comment on skipped line 1](#)

No,...im still alive..u3 is dead, not me

[Post](#) [Keep as Draft](#) [Discard](#) Autosaved at 10:20 AM [Quote Source](#)

```

1 package com.csc.groupasia.web;
2
3 import javax.servlet.ServletContext;
4 import javax.servlet.ServletContextEvent;
5 import javax.servlet.ServletContextListener;
6 import javax.xml.parsers.FactoryConfigurationError;
7
8 import com.quipoz.framework.util.AppConfig;
9 import com.quipoz.framework.util.log.QFLogger;

```

[user 1 is also viewing this review](#)

- User u2 log in
- Open the review CR-11
- U2 will see the quytran's comment and u1's comment
- U2 review code and write his comment also
- Then u2 post his comment by click on "Post" button

# Add content to a review (con't)

The screenshot displays the Crucible and Fisheye code review interface. At the top, the review session is identified as 'Default Project CR-11'. Below this, a status bar shows 'OPEN for a few seconds | due in 6 days' and the title 'Untitled'. The interface is divided into three main sections: a left sidebar for project navigation, a central review area, and a bottom code editor.

**Left Sidebar:** Contains a tree view of the project structure. The selected path is 'CSCGroupAsiaWeb/src/main/java/com/csc/gr...'. The files listed are 'AppConfigListener.java 3 (2)', 'AppVarsBuilder.java', and 'AppVarsManagementFilter.java'.

**Central Review Area:** Displays the review session details. It shows the file path '/CSCGroupAsiaWeb/.../web/AppConfigListener.java' with a green 'Added' label and '3 (2)' comments. A red circle highlights a specific line of code. Below this, a list of comments is shown, each with a user avatar, text, and a timestamp. A red box highlights the first three comments:

- quy tran says:** who code this line ? (10:09)
- user 1 says:** u2 code this line, but he is died.... (10:12)
- user 2 says:** No..im still alive..u3 is dead, not me (10:18)

Each comment has a 'Reply' button and a 'Leave Unread' button. A 'Create Issue' button is also present. A blue box at the bottom of the review area indicates 'user 1 is also viewing this review'.

**Bottom Code Editor:** Shows the source code for 'AppConfigListener.java'. The code includes package declarations, imports, and a class definition. The line numbers are visible on the left side of the editor.

- User to reload page then see u1's comment and u2's comment
- So like chat, we nearly get the comment from the reviewer at the same time.
- The code we see here are like a mirror, so we're not able to change or influence to the code in SVN



## Add content to a review (con't)

Default Project  
CR-11

OPEN for a few seconds | due in 6 days

Untitled

Author  
Moderator  
Reviewers

CR-11

Details  
Objectives  
General Comments  
Number of files included: 3  
Group (root)

CSCGroupAsiaWeb/src/main/java/com/csc/gr...

AppConfigListener.java 3 (2)  
AppVarsBuilder.java  
AppVarsManagementFilter.java

/CSCGroupAsiaWeb/.../web/AppConfigListener.java Added 3 (2)

125816

Add a file comment. Click on source lines to add an inline comment.

quy tran says: 10:09  
who code this line ?  
Reply Edit Delete Create Issue comment on skipped line 1

user1 says: 10:12  
u2 code this line, but he is died...  
Reply Leave Unread Create Issue comment on skipped line 1

user 2 says: 10:18  
No...im still alive..u3 is dead, not me  
Reply Leave Unread Create Issue comment on skipped line 1

```
1 package com.csc.groupasia.web;
2
3 import javax.servlet.ServletContext;
4 import javax.servlet.ServletContextEvent;
5 import javax.servlet.ServletContextListener;
6 import javax.servlet.annotation.WebInitParam;
```

- After finishing the review, just easily to click on the “Close” button to close the review
- We finished a flow of code review

Review Dashboard

My Reviews

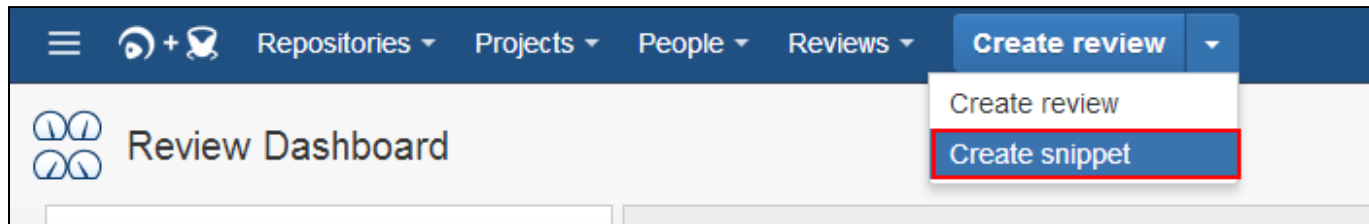
Inbox (0)  
To Review (0)  
Ready to Close (0)  
In Draft (0)  
Require My Approval (0)  
Outbox (1)  
Out For Review (0)  
Completed (1)  
Archive (4)  
Closed (3)  
Abandoned (1)

Archive 4 Reviews

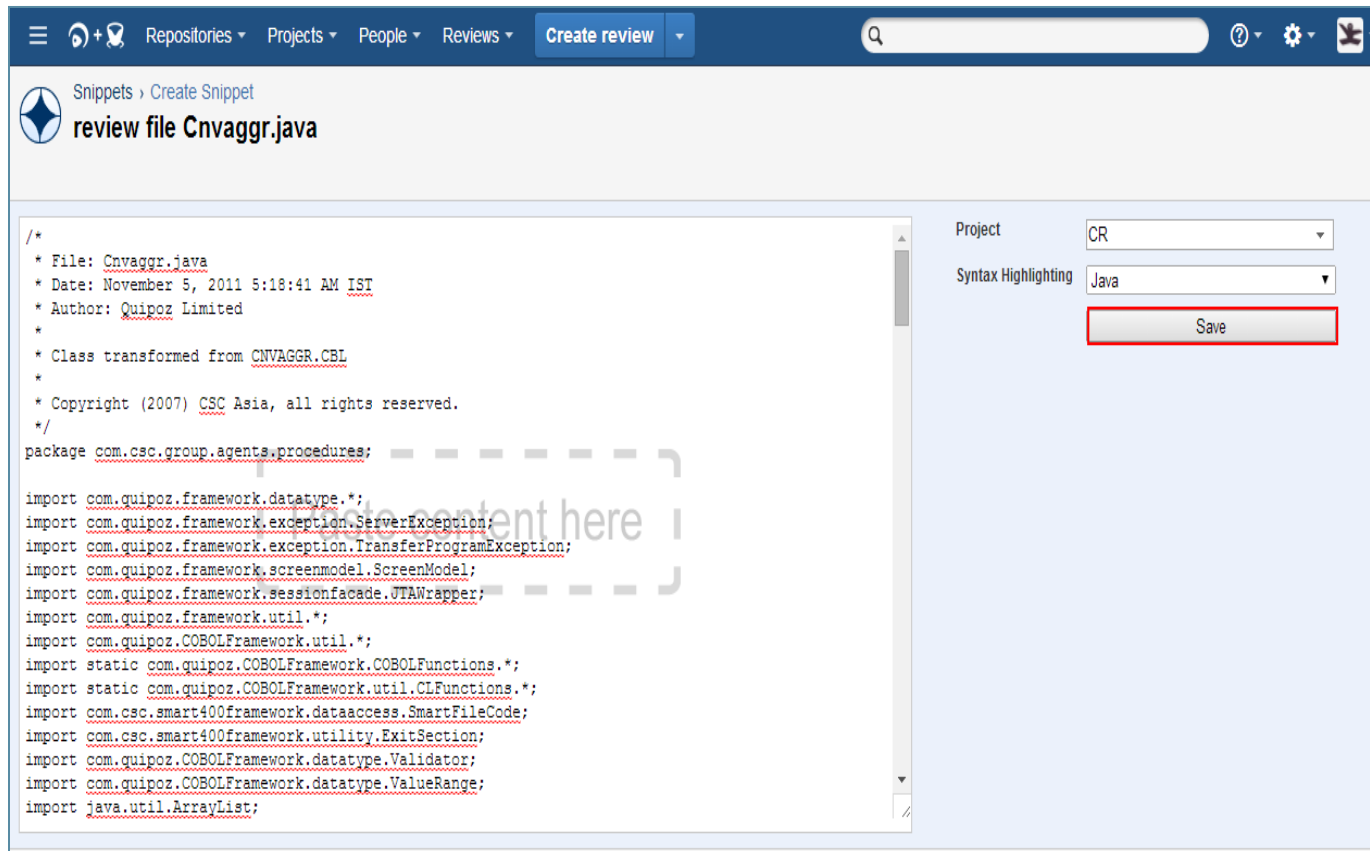
State	Review	Owner	Name	Files	Comments	Age	Due	Reviewers
Closed	AA-1-4		Ticket #BD-1338 Create the branch Integrall7.7 in Trunk	1	4	3 days		
Closed	CR-9			0	0	4 hours		
Dead	CR-10			0	0	4 hours	in 6 days	
Closed	CR-11		Ticket #BD-1338 Create the branch Integrall7.7 in Trunk	3	3	4 hours		

- The review stayed in archive
- We can reopen or see it again in future

# Create an Snippet



- Log in as Admin user
- Chose Create snippet tab



- Add the title
- Put the review source code into the content
- Chose project
- Chose syntax highlighting
- Click on “Save” button

## Create an Snippet (con't)

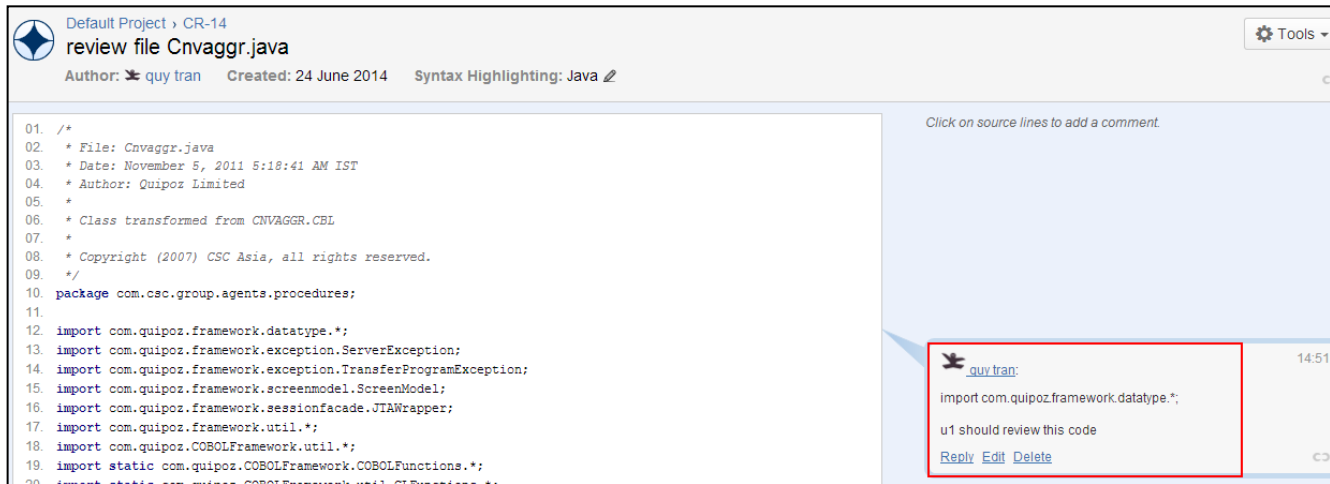
The screenshot shows a web browser at the URL `localhost:8060/snippet/CR-14`. The interface includes a navigation bar with links for Repositories, Projects, People, and Reviews, along with a 'Create review' button. The main content area displays the snippet details for 'Default Project > CR-14', showing the file 'Cnvaggr.java' reviewed by 'quy tran' on '24 June 2014'. The code is in Java and includes a multi-line comment at the top and several import statements. A sidebar on the right allows for adding comments to specific source lines.

```

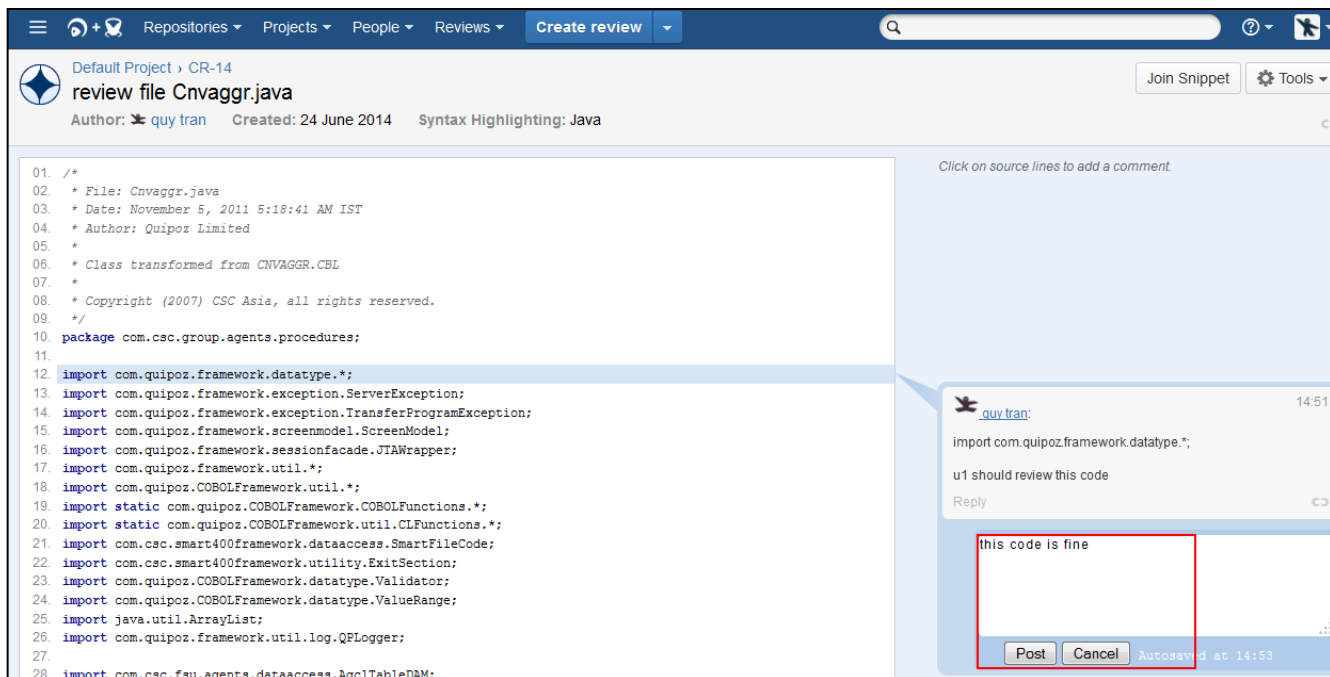
01. /*
02.  * File: Cnvaggr.java
03.  * Date: November 5, 2011 5:18:41 AM IST
04.  * Author: Quipoz Limited
05.  *
06.  * Class transformed from CNVAGGR.CBL
07.  *
08.  * Copyright (2007) CSC Asia, all rights reserved.
09.  */
10. package com.csc.group.agents.procedures;
11.
12. import com.quipoz.framework.datatype.*;
13. import com.quipoz.framework.exception.ServerException;
14. import com.quipoz.framework.exception.TransferProgramException;
15. import com.quipoz.framework.screenmodel.ScreenModel;
16. import com.quipoz.framework.sessionfacade.JTAWrapper;
17. import com.quipoz.framework.util.*;
18. import com.quipoz.COBOLFramework.util.*;
19. import static com.quipoz.COBOLFramework.COBOLFunctions.*;
20. import static com.quipoz.COBOLFramework.util.CLFunctions.*;
21. import com.csc.smart400framework.dataaccess.SmartFileCode;
22. import com.csc.smart400framework.utility.ExitSection;
23. import com.quipoz.COBOLFramework.datatype.Validator;
24. import com.quipoz.COBOLFramework.datatype.ValueRange;
25. import java.util.ArrayList;
26. import com.quipoz.framework.util.log.QPLogger;
  
```

- After saving it has name CR-14
- Copy the link then send to the user who will join the review  
EX: send this link to u1

# Create an Snippet (con't)



- User quytran  
send a comment to  
u1



-u1 log in  
-Past the link that  
quytran sent"  
<http://localhost:8060/snippet/CR-14>"  
-U1 see the code  
review and  
quytran's comment  
-U1 reply his  
comment

# Create an Snippet (con't)

The screenshot displays the Crucible web interface for a code review. The top navigation bar includes links for Repositories, Projects, People, Reviews, and a 'Create review' button. The current review is titled 'review file Cnvaggr.java' by author 'quy tran', created on June 24, 2014. The code being reviewed is a Java file named 'Cnvaggr.java' with syntax highlighting. A comment by 'user 1' is visible, stating 'this code is fine'. A red box highlights the comment, and a red arrow points to it. The code snippet shows imports and package declarations for 'com.csc.group.agents.procedures' and 'com.quipoz.framework.datatype.\*'.

```
01. /*
02.  * File: Cnvaggr.java
03.  * Date: November 5, 2011 5:18:41 AM IST
04.  * Author: Quipoz Limited
05.  *
06.  * Class transformed from CNVAGGR.CBL
07.  *
08.  * Copyright (2007) CSC Asia, all rights reserved.
09.  */
10. package com.csc.group.agents.procedures;
11.
12. import com.quipoz.framework.datatype.*;
13. import com.quipoz.framework.exception.ServerException;
14. import com.quipoz.framework.exception.TransferProgramException;
15. import com.quipoz.framework.screenmodel.ScreenModel;
16. import com.quipoz.framework.sessionfacade.JTAWrapper;
17. import com.quipoz.framework.util.*;
18. import com.quipoz.COBOLFramework.util.*;
19. import static com.quipoz.COBOLFramework.COBOLFunctions.*;
20. import static com.quipoz.COBOLFramework.util.CLFunctions.*;
21. import com.csc.smart400framework.dataaccess.SmartFileCode;
22. import com.csc.smart400framework.utility.ExitSection;
23. import com.quipoz.COBOLFramework.datatype.Validator;
24. import com.quipoz.COBOLFramework.datatype.ValueRange;
25. import java.util.ArrayList;
26. import com.quipoz.framework.util.log.QPLogger;
27.
28. import com.csc.fsu.agents.dataaccess.AgolTableDAM;
29. import com.csc.group.agents.dataaccess.AggrTableDAM;
30. import com.csc.smart.recordstructures.Varcom;
31. import com.csc.smart400framework.printing.PrinterSpool;
32.
```

Click on source lines to add a comment.

**Comments:**

- quy tran:** 14:51  
import com.quipoz.framework.datatype.\*;  
u1 should review this code  
[Reply](#) [Edit](#) [Delete](#)
- user 1:** 14:53  
this code is fine  
[Reply](#)

- Quaytran reload page and see the u1's comment

## Create an Snippet (con't)

The screenshot shows the Crucible interface for reviewing a file named 'Cnvaggr.java'. The file content is displayed on the left, and a right-hand pane shows comments and a 'Tools' menu. The 'Tools' menu is open, and the 'Close' button is highlighted with a red box. Other options in the menu include 'Download Snippet as Text', 'Delete', 'Add to Favourites', and 'Print'.

- After finishing the review, just easily to click on the “Close” button to close the review
- We finished a flow of snippet code review

The screenshot shows the 'Review Dashboard' in Crucible. On the left is a sidebar with navigation links like 'Inbox (0)', 'To Review (0)', 'Ready to Close (0)', 'In Draft (0)', 'Require My Approval (0)', 'Outbox (1)', 'Out For Review (0)', 'Completed (1)', 'Archive (4)', 'Closed (3)', and 'Abandoned (1)'. The main area is titled 'My Snippets' and contains a table with the following data:

Snippet	Name	Created By	Comments	Date
CR-14	review file Cnvaggr.java		2	24 June 2014

The row for 'CR-14' is highlighted with a red box. Below the table, there are links for 'My Open Snippets (0)' and 'My Snippets (1)', with the latter being highlighted with a red box.

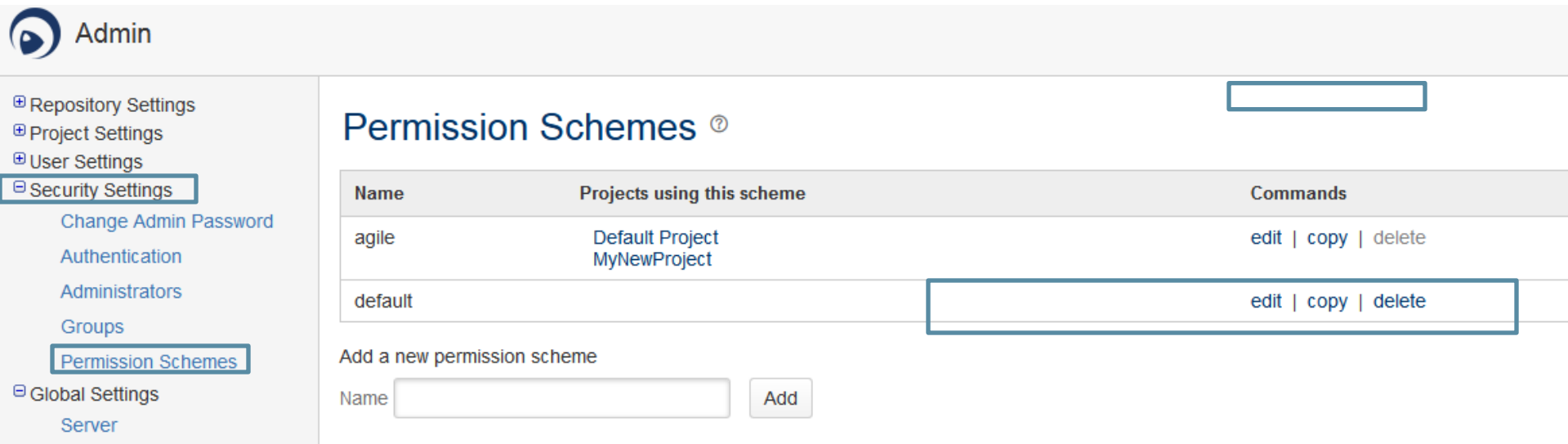
- The review stayed in My snippets
- We can reopen or see it again in future

## Permission scheme

- A permission scheme provides a set of permissions for a Crucible user/group/role to perform a particular action on Crucible

## Create a permission scheme

- Under **Security Settings**, select **Permission Schemes** to bring up Permission Schemes screen



The screenshot shows the Admin interface for Crucible. On the left is a sidebar with navigation links: Repository Settings, Project Settings, User Settings, Security Settings (highlighted), Change Admin Password, Authentication, Administrators, Groups, Permission Schemes (highlighted), Global Settings, and Server. The main content area is titled "Permission Schemes" with a help icon. Below the title is a table with three columns: Name, Projects using this scheme, and Commands. The table lists two schemes: "agile" (used by Default Project and MyNewProject) and "default" (with a highlighted edit/copy/delete button). Below the table is a form to "Add a new permission scheme" with a "Name" input field and an "Add" button. A search bar is visible at the top right of the main content area.

Name	Projects using this scheme	Commands
agile	Default Project MyNewProject	edit   copy   delete
default		edit   copy   delete

Add a new permission scheme

Name



# Edit a permission scheme

## Edit Permission Scheme <sup>?</sup>

TestNew	Rename
Permissions <sup>?</sup>	Users / Groups / Review Roles
<b>Abandon</b> Ability to abandon (i.e. cancel) a review.	• <b>Review Roles:</b> Creator, Author, Moderator <a href="#">edit</a>
<b>Approve</b> Ability to approve a review (i.e. issue it to the reviewers).	• <b>Review Roles:</b> Creator, Author, Moderator <a href="#">edit</a>
<b>Close</b> Ability to close a review or snippet once it has been summarized.	• <b>Review Roles:</b> Reviewer, Creator, Author, Moderator <a href="#">edit</a>
<b>Comment</b> Ability to add or remove a comment on a review.	• <b>All logged in users:</b> true • <b>Review Roles:</b> Reviewer, Creator, Author, Moderator <a href="#">edit</a>
<b>Complete</b> Ability to indicate they have completed a review.	• <b>Review Roles:</b> Reviewer <a href="#">edit</a>
<b>Create</b> Ability to create a review or snippet.	• <b>All logged in users:</b> true <a href="#">edit</a>
<b>Delete</b> Ability to permanently delete a review or snippet.	• <b>Review Roles:</b> Creator, Author, Moderator <a href="#">edit</a>
<b>Edit Review Details</b> Ability to change review details including the set of revisions being reviewed.	• <b>Review Roles:</b> Reviewer, Creator, Author, Moderator <a href="#">edit</a>
<b>Re-Open</b> Ability to re-open a closed review or snippet.	• <b>Review Roles:</b> Reviewer, Creator, Author, Moderator <a href="#">edit</a>
<b>Recover</b> Ability to recover an abandoned review.	• <b>Review Roles:</b> Reviewer, Creator, Author, Moderator <a href="#">edit</a>
<b>Reject</b> Ability to reject a review submitted for approval.	• <b>Review Roles:</b> Creator, Author, Moderator <a href="#">edit</a>
<b>Submit</b> Ability to submit a review to the moderator for approval.	• <b>Review Roles:</b> Creator, Author, Moderator <a href="#">edit</a>
<b>Summarize</b> Ability to summarize a review.	<a href="#">edit</a>
<b>Uncomplete</b> Ability to indicate they have not completed a review, after indicating they have completed a review.	• <b>Review Roles:</b> Reviewer <a href="#">edit</a>
<b>View</b> Ability to view a review or snippet.	• <b>Anonymous users:</b> true • <b>All logged in users:</b> true • <b>Review Roles:</b> Reviewer, Creator, Author, Moderator <a href="#">edit</a>

- On the left hand side are the available actions in Crucible
- On the right hand side are the different Roles that has permission to carry out the action on the left

# Edit a permission scheme

## Edit User Action <sup>?</sup>

*Abandon: Ability to abandon (i.e. cancel) a review.*

☐ Allow all logged in users

Individuals

Groups

Review participants

☐ Reviewer

☒ Creator

☒ Author

☒ Moderator

- In this example, Creator, Author and Moderator are allowed to do Abandon action on a review.
- Additional individual can also be added

## Link permission schema to a project

- Go to Projects screen, click Edit then choose a Permission scheme

### Projects <sup>?</sup>

A project is a set of Crucible content combined with a set of customisable FishEye content.

Key	Name	Default Repository	Default Moderator	Default Reviewer Users	Default Reviewer Groups	Default Review Time	Crucible Settings	Fish
CR	Default Project					5 weekdays	<a href="#">Edit</a>	<a href="#">Edit</a>
MP	MyNewProject	MySubVersion	(Moderator role disabled)			No time restriction	<a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">Edit</a>

[Add a new project](#)

#### Content

Default Repository

MySubVersion

☒ Store the contents of files in reviews



#### Permissions scheme <sup>?</sup>

Permission scheme

TestNew

## Using wiki markup

- Crucible enable adding wiki markup to style comments and other text fields on a code review
- When editing/adding a comment or Objectives field, the user can includes many different wiki mark-up.
- Clicking the question mark will open a list of available markup to use

Participant	Role	Time Spent	Comm
 <a href="#">First User</a>	Author & Moderator	6m	3
 <a href="#">User 2</a>	Reviewer - 0% reviewed		
<b>Total</b>		<b>6m</b>	<b>3</b>

### Objectives [Edit](#)

First objective  
Second objective



## Using wiki markup

- Here is the short list of commonly used markup
- For example, add \* around a word/phrase make it bold

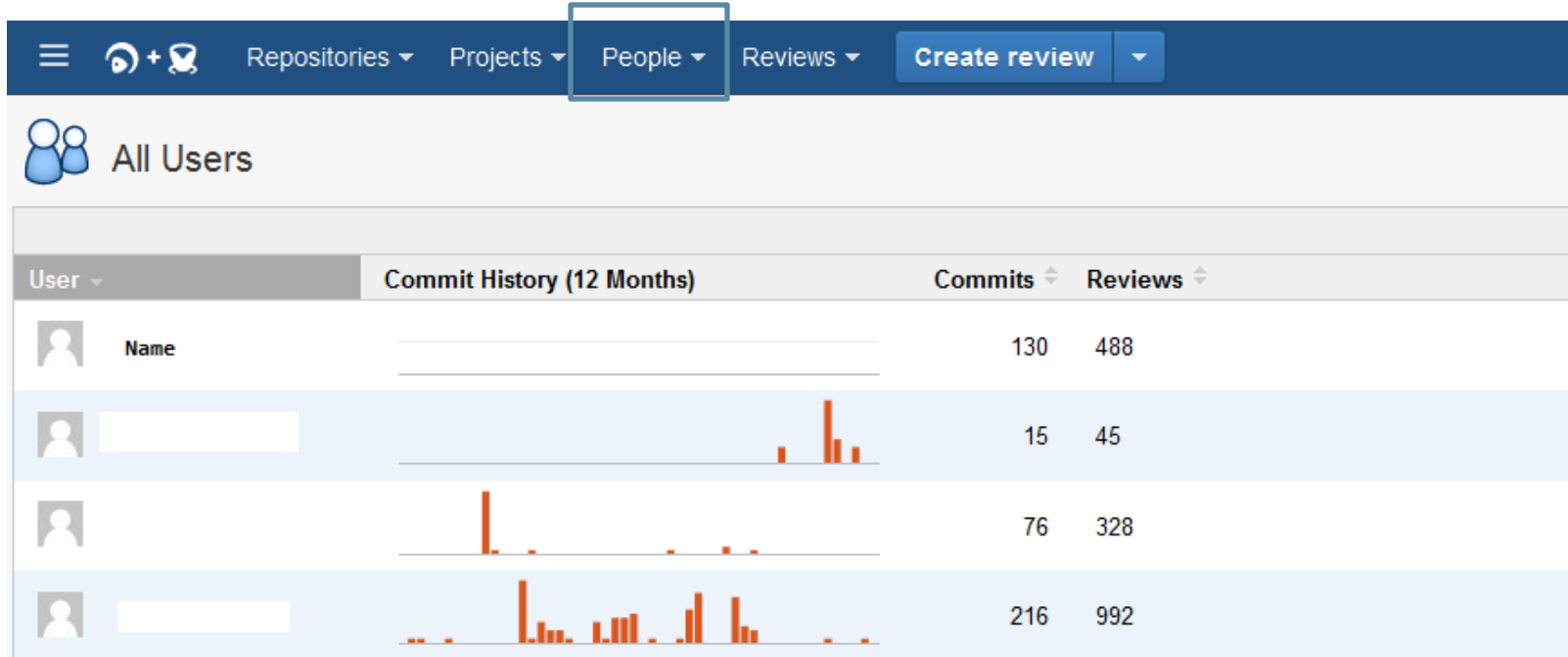
### Wiki Markup Tips

Notation	Description
[Crucible Review CR-1 CR-1]	Creates a link to a Crucible review or FishEye artifact using the internal key reference for the item.  Example: [Crucible Review CR-1 CR-1]
[Atlassian Crucible http://atlassian.com/crucible]	Creates a link to an external resource, special characters that come after the URL and are not part of it must be separated with a space. External links are denoted with an arrow icon. Example: Atlassian Crucible
{cs:id=1 rep=FE}	Render a link to the changeset Example: 1
*bold*	Makes text appear <b>bold</b> .
_italic_	Makes text appear in <i>italics</i> .
+underline+	Makes text appear <u>underlined</u> .
??citation??	Makes text appear in — <i>citation</i> form.
-strikethrough-	Makes text appear <del>struck through</del> .
^superscript^	Makes text appear in <sup>superscript</sup> .

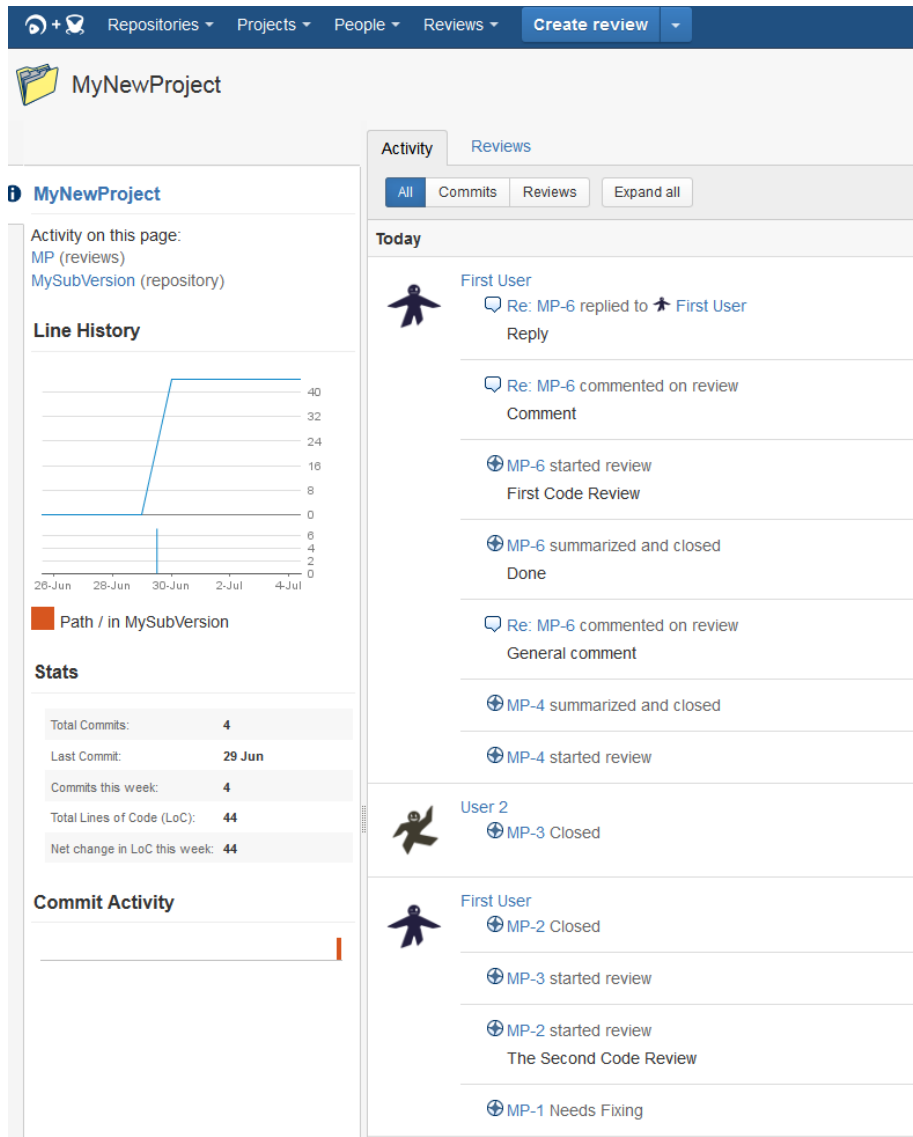
Full Wiki MarkupClose

## People statistics

- Click People then either select a recently selected user or All Users
- The People commit report show the total number of Commits and the total number of Reviews a user has done on a project.



# Project statistics



- Activity and Review reports
- In the right hand pane, is the activity stream relating to this project.
- In the left hand pane, are various statistics charts relating to the project in context. This panel contains a chart showing the lines of code added to the repository, graphed over time.



Q&A



## References

- <https://confluence.atlassian.com/display/CRUCIBLE/Starting+to+use+Crucible>
- <https://confluence.atlassian.com/display/CRUCIBLE/Using+Crucible>



**Thank You!**



BUSINESS SOLUTIONS  
TECHNOLOGY  
OUTSOURCING

## Revision History

Date	Version	Description	Updated by	Reviewed and Approved By