

CTIP를 위한
환경 구축
REDMINE, GIT, JUNIT

Subject : Software Modeling

Professor : 유준범

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OUTLINE

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Bug Tracker | Redmine | Installation

II. GIT

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III. JUnit

JUnit? | How to use? | JUnit Assert Class | JUnit Annotation

IV. CTIP

CTIP? | Setting

I. Redmine

Bugtracker | Redmine | Installation

I. Redmine

Bugtracker?

- ✓ 프로젝트 단위로 Issue 관리
- ✓ 사용자 관리 (설정, 권한 등)
- ✓ E-mail 알림 기능
- ✓ Issue 번호로 소스 버전 관리 시스템과 연동

I. Redmine

Bugtracker?

✓ Mantis (2000)



✓ Jira (2002)



✓ Redmine (2006)



I. Redmine

Redmine?

- ✓ 많은 프로젝트를 관리
- ✓ Time tracking
- ✓ 웹 기반
- ✓ Git와 연동
- ✓ Role-based access 제어

I. Redmine

How to Install?



Redmine [Follow](#)

www.redmine.org | Open Source

Bitnami Redmine Stack provides a one-click install solution for Redmine. Download installers and virtual machines or run your own Redmine server in the cloud.

Redmine is a very popular Rails-based open source bug tracker to help you manage issues and tasks for multiple projects. It is extremely flexible, features a built-in wiki, time tracking, custom fields, role-based access, SCM integration (including git), and support for multiple projects. Redmine has many of the same features you'd find in an enterprise bug tracking system, but of course it's open source and completely free software. Redmine has an clean interface that makes it easy to define your first project and get started.

Redmine Features

With Redmine, you can define multiple projects and track issues on each project independently. Users can have different roles on each project and Redmine also supports custom issue types and workflows. The interface is easy to use and activity feeds ensures that users are always up-to-date on issue status changes. Finally, Redmine is easily customizable with plugins freely available in the [Redmine Plugin Directory](#).

HOST IN THE CLOUD

 LAUNCH	 LAUNCH	 LAUNCH
----------------------------	----------------------------	----------------------------

LOCAL INSTALL

[DOWNLOAD REDMINE INSTALLER](#)

[bitnami-redmine-3.0.1-0-windows-in...](#)
Version 3.0.1

OTHER OPTIONS

- [All Redmine Installers](#)
- [Redmine Virtual Machines](#)
- [Redmine Docker Container](#)

I. Redmine

How to Install?



I. Redmine

How to Install?

설치

SMTP 설정

기본 메일 서버 설정

사용자명

패스워드

재입력

SMTP 호스트

SMTP 포트 번호

보안 접속

BitNami Installer

< 뒤로 다음 > 취소

설치

BitNami Redmine Stack 설치 마법사 완료 중

컴퓨터에 BitNami Redmine Stack 설치를 완료했습니다.

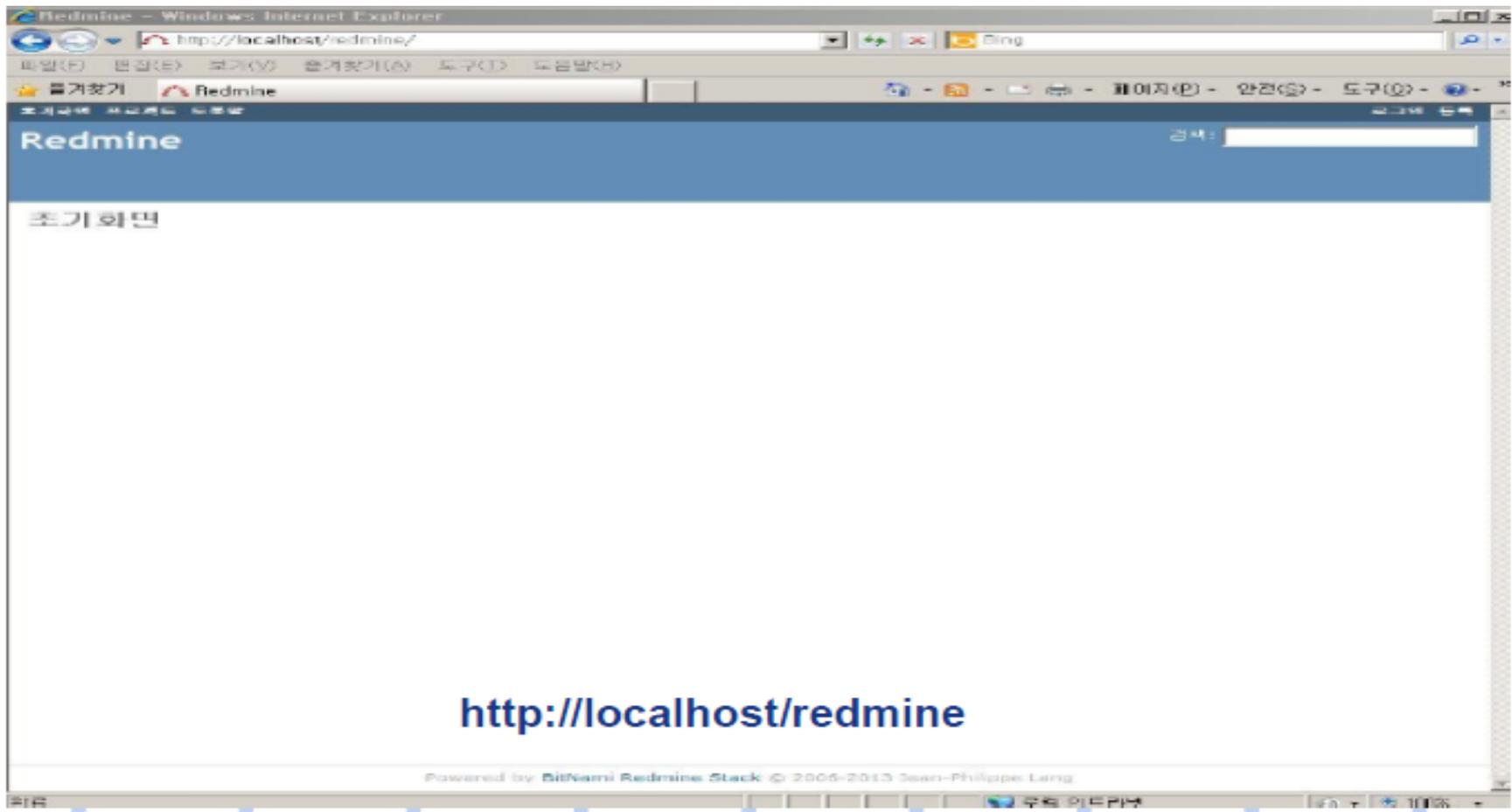
Redmine 어플리케이션 구동

BitNami

< 뒤로 마침 취소

I. Redmine

How to Install?



I. Redmine

How to Install?

Home My page Projects Help Logged in

JaGoSI

Search:

Overview Activity Roadmap Issues New issue News Documents Wiki Files Repository

Overview

Java GForge SOAP Interface

- Subprojects: [GForge](#)

 **Issue tracking**

- Bug: 3 open on 60
- Feature: 7 open on 84

[View all issues](#)

 **Members**

Reporter: [kamaa -](#), [manager -](#), [somebody -](#), [Karl Heinz Marbaise](#)

I. Redmine

How to Install?

Home My page Projects Administration Help

Logged in as admin My account Sign out

Redmine

Search:

Projects

 [New project](#)

Filters

Status :

Project ▲	Description	Subprojects	Public	Created		
JaGoSI	Java GForge SOAP Interface	0	✓	10/01/2008	 Archive	 Delete
SOA - Component	This is main SOA Component	5	✓	10/05/2008	 Archive	 Delete
SOA - DAO	The DAO of the SOA Component. Data Access Object layer.	0	✓	10/06/2008	 Archive	 Delete
SOA - Integration Test	The Integration Test module for SOA connector	0	✓	10/06/2008	 Archive	 Delete
SOA - Tomcat	The SOA Tomcat package	0	✓	10/06/2008	 Archive	 Delete
SOA - Web-Service	This is the web-service of the SOA Component.	0	✓	10/06/2008	 Archive	 Delete
SOA - WSDL	The WSDL's for the Web-Service	0	✓	10/06/2008	 Archive	 Delete
SupoSE	The Subversion Repository Search Engine	0	✓	09/29/2008	 Archive	 Delete
Svrbook	The Subversion Book Translation	0		10/02/2008	 Archive	 Delete

(1-9/9) | Per page: 25, 50, 100

I. Redmine

How to Install?

Role: Manager

Name *

Issues can be assigned to this role

Permissions

Project				
<input checked="" type="checkbox"/> Edit project	<input checked="" type="checkbox"/> Select project modules	<input checked="" type="checkbox"/> Manage members	<input checked="" type="checkbox"/> Manage versions	
Boards				
<input checked="" type="checkbox"/> Manage boards	<input checked="" type="checkbox"/> Add messages	<input checked="" type="checkbox"/> Edit messages	<input checked="" type="checkbox"/> Delete messages	
Documents				
<input checked="" type="checkbox"/> Manage documents	<input checked="" type="checkbox"/> View documents			
Files				
<input checked="" type="checkbox"/> Manage files	<input checked="" type="checkbox"/> View files			
Issue tracking				
<input checked="" type="checkbox"/> Manage categories	<input checked="" type="checkbox"/> Add issues	<input checked="" type="checkbox"/> Edit issues	<input checked="" type="checkbox"/> Manage issue relations	<input checked="" type="checkbox"/> Add issue notes
<input checked="" type="checkbox"/> Edit issue notes	<input checked="" type="checkbox"/> Edit own issue notes	<input checked="" type="checkbox"/> Move issues	<input checked="" type="checkbox"/> Delete issues	<input checked="" type="checkbox"/> Manage public queries
<input checked="" type="checkbox"/> Save queries	<input checked="" type="checkbox"/> View gantt	<input checked="" type="checkbox"/> View calendar		
News				
<input checked="" type="checkbox"/> Manage news	<input checked="" type="checkbox"/> Comment news			
Repository				
<input checked="" type="checkbox"/> Manage repository	<input checked="" type="checkbox"/> Browse repository	<input checked="" type="checkbox"/> View changesets		
Time tracking				
<input checked="" type="checkbox"/> Log time	<input checked="" type="checkbox"/> View time entries	<input checked="" type="checkbox"/> Edit time entries	<input checked="" type="checkbox"/> Edit own time entries	
Wiki				
<input checked="" type="checkbox"/> Manage wiki	<input checked="" type="checkbox"/> Rename wiki pages	<input checked="" type="checkbox"/> Delete wiki pages	<input checked="" type="checkbox"/> View wiki pages	<input checked="" type="checkbox"/> Edit wiki pages

[Check all](#) | [Uncheck all](#)

I. Redmine

How to Install?

[Home](#) [My page](#) [Projects](#) [Administration](#) [Help](#)

Logged in as admin [My account](#) [Sign out](#)

Redmine

Search:

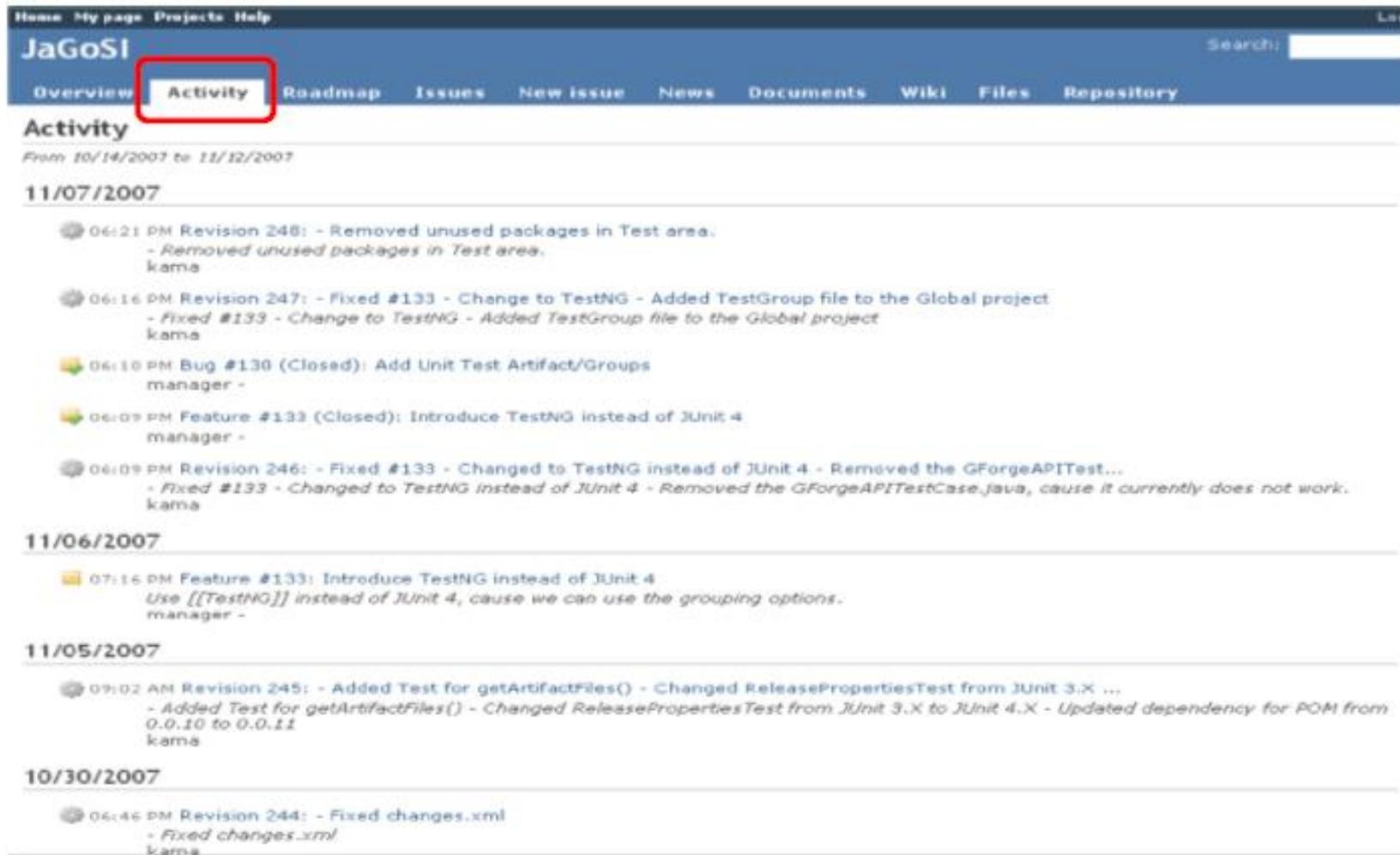
Trackers

[New tracker](#)

Tracker	Sort	
Bug	    	Delete
Feature	    	Delete
Support	    	Delete

I. Redmine

How to Install?



The screenshot displays the Redmine web interface for the JaGoSI project. The top navigation bar includes links for Home, My page, Projects, and Help. The main navigation menu features Overview, Activity (highlighted with a red box), Roadmap, Issues, New issue, News, Documents, Wiki, Files, and Repository. A search bar is located on the right side of the navigation bar. The page title is "Activity", and the date range is "From 10/14/2007 to 11/12/2007". The activity log is organized by date, with sections for 11/07/2007, 11/06/2007, 11/05/2007, and 10/30/2007. Each entry includes a timestamp, a user icon, and a description of the activity.

Home My page Projects Help

JaGoSI Search:

Overview **Activity** Roadmap Issues New issue News Documents Wiki Files Repository

Activity

From 10/14/2007 to 11/12/2007

11/07/2007

- 06:21 PM Revision 246: - Removed unused packages in Test area.
- Removed unused packages in Test area.
kama
- 06:16 PM Revision 247: - Fixed #133 - Change to TestNG - Added TestGroup file to the Global project
- Fixed #133 - Change to TestNG - Added TestGroup file to the Global project
kama
- 06:10 PM Bug #130 (Closed): Add Unit Test Artifact/Groups
manager -
- 06:09 PM Feature #133 (Closed): Introduce TestNG instead of JUnit 4
manager -
- 06:09 PM Revision 246: - Fixed #133 - Changed to TestNG instead of JUnit 4 - Removed the GForgeAPITest...
- Fixed #133 - Changed to TestNG instead of JUnit 4 - Removed the GForgeAPITestCase.java, cause it currently does not work.
kama

11/06/2007

- 07:16 PM Feature #133: Introduce TestNG instead of JUnit 4
Use `[[TestNG]]` instead of JUnit 4, cause we can use the grouping options.
manager -

11/05/2007

- 09:02 AM Revision 245: - Added Test for getArtifactFiles() - Changed ReleasePropertiesTest from JUnit 3.X ...
- Added Test for getArtifactFiles() - Changed ReleasePropertiesTest from JUnit 3.X to JUnit 4.X - Updated dependency for POM from 0.0.10 to 0.0.11
kama

10/30/2007

- 06:46 PM Revision 244: - Fixed changes.xml
- Fixed changes.xml
kama

I. Redmine

How to Install?

Home My page Projects Help Lo

JaGoSI

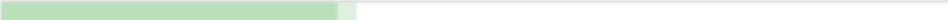
Search:

Overview Activity **Roadmap** Issues New issue News Documents Wiki Files Repository

Roadmap

 Milestone 0.0.11

Due in 9 days (10/17/2008)

 38%

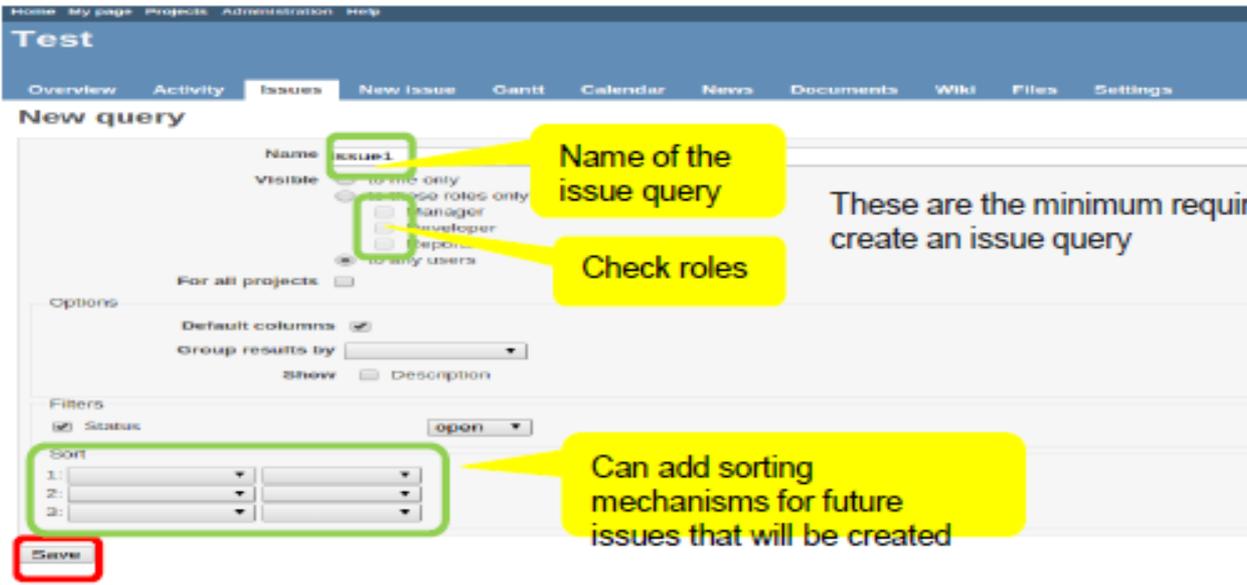
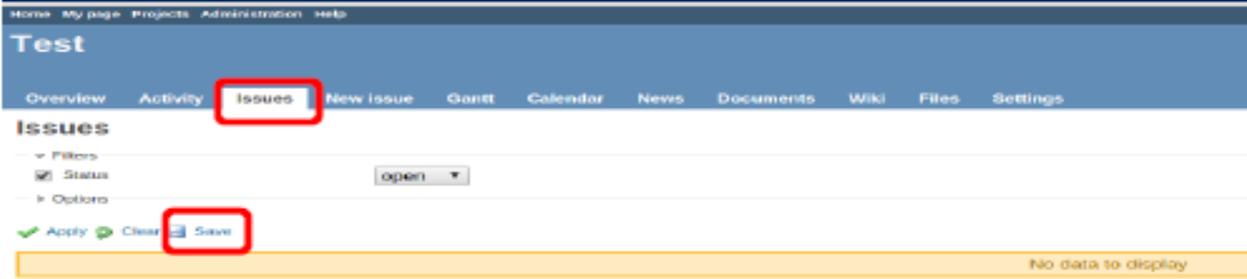
5 closed (36%) 9 open (64%)

Related issues

- Feature #16: Exception if not correctly authenticated via login()
- Feature #19: JaGoSI Error Handling
- Feature #81: Class JaGoSIProjectTask
- Feature #83: Compiling with debug activated
- Feature #84: Configure the Upload limit for Files
- Feature #104: Fixe Maven 2 Build package
- Feature #106: Get to run the auto generated Unit Tests of Axis
- ~~Feature #133~~: Introduce TestNG instead of JUnit 4
- ~~Feature #134~~: Update Copyright Year

I. Redmine

How to Install?



What is issue query?
It is like an bulletin board for future issues that will be created.
A background for the 'ticketing system'



What is ticketing system?
computer software package that manages and maintains lists of issues, as needed by an organization (Wikipedia)

I. Redmine

How to Install?

Home My page Projects Administration Help

Test

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

✓ Successful update.

issue1

▼ Filters

Status

open ▼

▼ Options

Columns

Available Columns

- Project
- Parent task
- Author
- Category
- Target version
- Start date
- Due date
- Estimated time
- Spent time
- % Done

Selected Columns

- Tracker
- Status
- Priority
- Subject
- Assignee
- Updated

Select descriptions of future issues that will be created

Group results by **Project** ▼

Show Description

I. Redmine

How to Install?

Overview Activity Issues **New Issue** Gantt Calendar News Documents Wiki Files Settings

New issue

Tracker: Bug

Subject:

Description:

Status: New

Priority: Normal

Assignee:

Files: No file chosen (Maximum size: 5 MB)

Watchers:

Parent task:

Start date: 2015-04-03

Due date:

Estimated time: Hours

% Done: 0%

[Preview](#)

New issue name

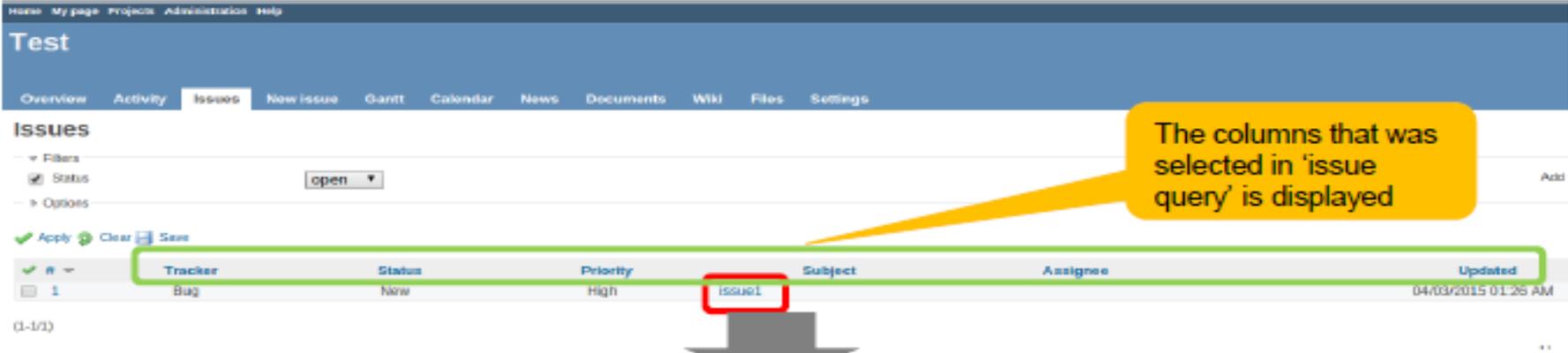
Issue description

These are the minimum requirements to create a new issue

Select 'status' (new, closed, rejected etc.) and 'priority'

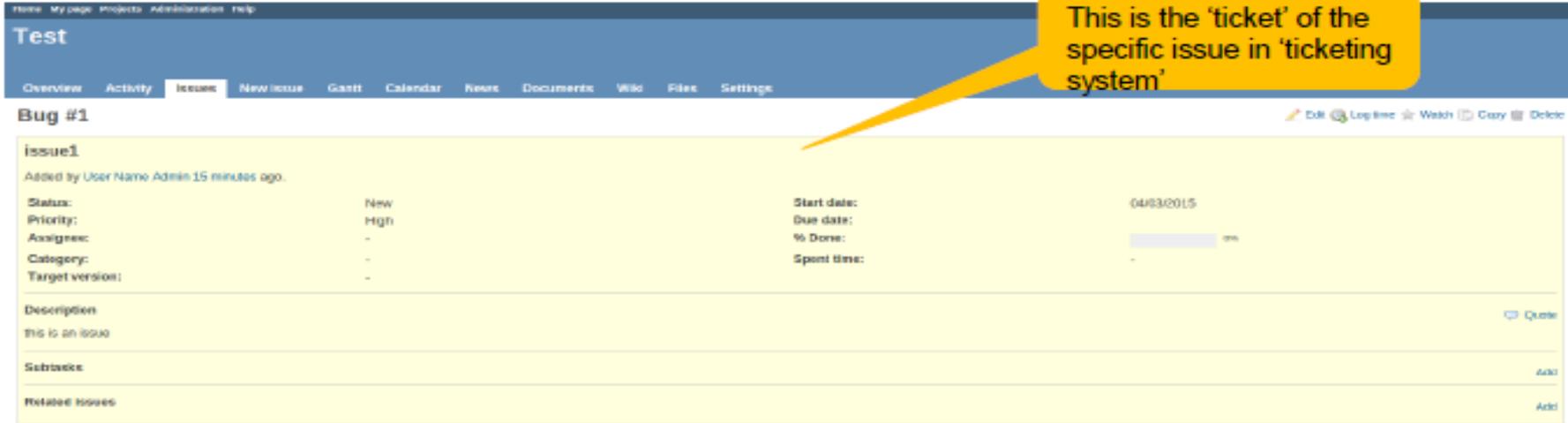
I. Redmine

How to Install?



The screenshot shows the 'Issues' list in Redmine. The columns 'Tracker', 'Status', 'Priority', 'Subject', 'Assignee', and 'Updated' are highlighted with a green box. A red box highlights the 'ISSUE1' link in the 'Subject' column. A yellow callout bubble points to the green box with the text: 'The columns that was selected in 'issue query' is displayed'. A large grey arrow points from the 'ISSUE1' link down to the next screenshot.

#	Tracker	Status	Priority	Subject	Assignee	Updated
1	Bug	New	High	ISSUE1		04/03/2015 01:26 AM



The screenshot shows the details for 'Bug #1'. A yellow callout bubble points to the issue details with the text: 'This is the 'ticket' of the specific issue in 'ticketing system''. The issue details include:

- Issue #1
- Added by User Name Admin 15 minutes ago.
- Status: New
- Priority: High
- Assignee: -
- Category: -
- Target version: -
- Start date: 04/03/2015
- Due date: -
- % Done: 0%
- Spent time: -

There are sections for Description, Subtasks, and Related issues.

I. Redmine

How to Install?

The screenshot shows the Redmine web interface. At the top, there is a navigation bar with the title "Test" and several menu items: Overview, Activity, Issues, New Issue, Gantt, **Calendar** (highlighted with a red box), News, Documents, Wiki, Files, and Settings. Below the navigation bar, the "Calendar" section is active. It includes a "Filters" section with a checked "Status" filter set to "open". The calendar is set to the month of "April" for the year "2015". A yellow callout bubble points to a bug issue on Friday, April 3rd, with the text "You can see that the issue is added today". The calendar grid shows dates from 14 to 18 for the current week. A legend at the bottom left explains the issue icons: a green arrow for "Issue beginning this day", a red arrow for "Issue ending this day", and a red diamond for "Issue beginning and ending this day".

Test

Overview Activity Issues New Issue Gantt **Calendar** News Documents Wiki Files Settings

Calendar

Filters

Status open

Month April Year 2015 Apply Clear

« March | May »

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
14	29	30	31	1	2 Bug #1: issue1	3
15	5	6	7	8	9	10
16	12	13	14	15	16	17
17	19	20	21	22	23	24
18	26	27	28	29	30	1

➡ Issue beginning this day
➤ Issue ending this day
◆ Issue beginning and ending this day

II. GIT

Revision Control | GIT | Installation | GitHub

II. GIT

Revision Control

- ✓ 버전 관리 시스템
- ✓ 소스코드 관리 시스템
- ✓ 문서 관리 시스템

II. GIT

Revision Control

- ✓ CVS (1990)
- ✓ Apache SVS (2000)
- ✓ Mercurial (2005)
- ✓ Git(2005)

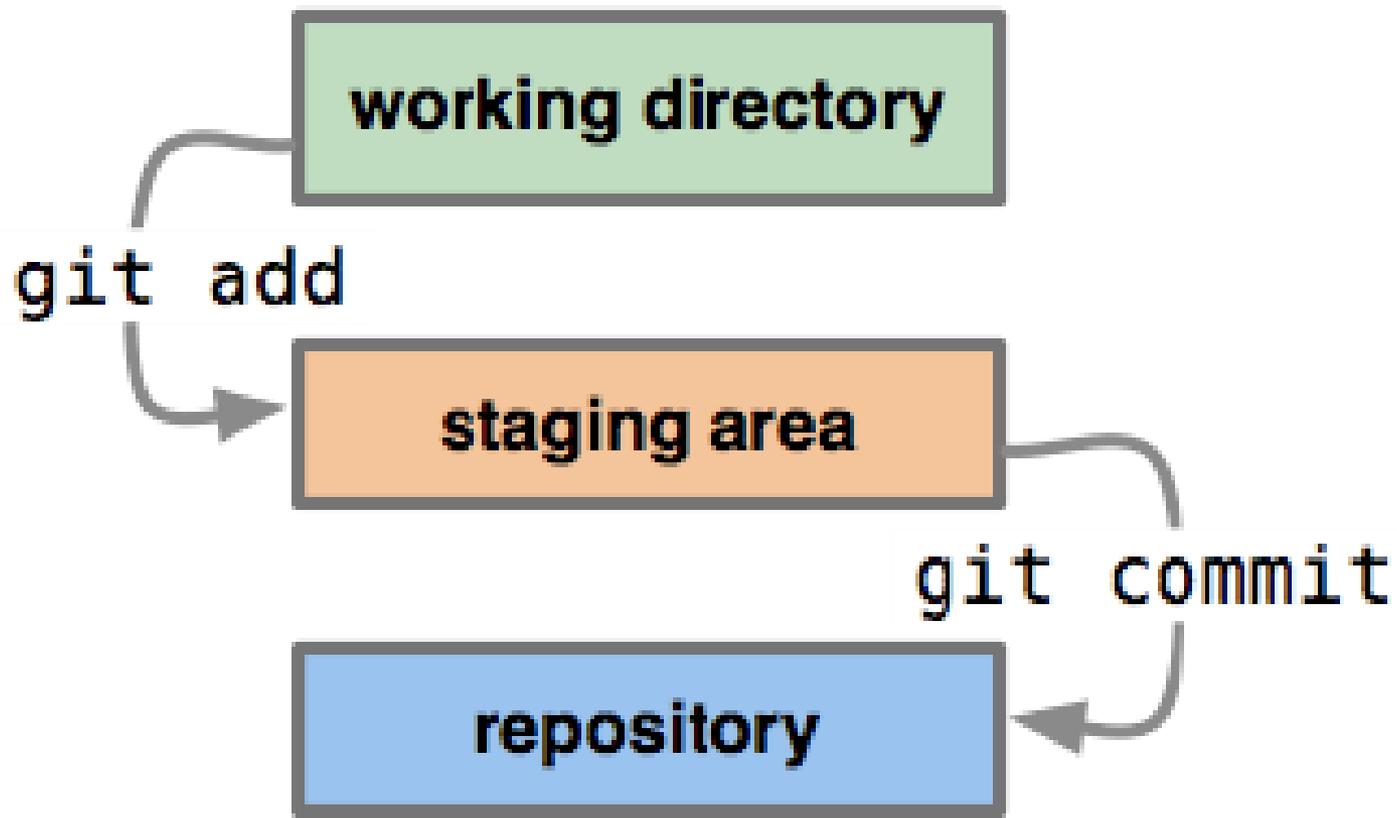
II. GIT

GIT?

- ✓ 버전의 분산 관리
- ✓ 효율성
- ✓ Github
- ✓ Online
- ✓ Branching

II. GIT

Git Staging



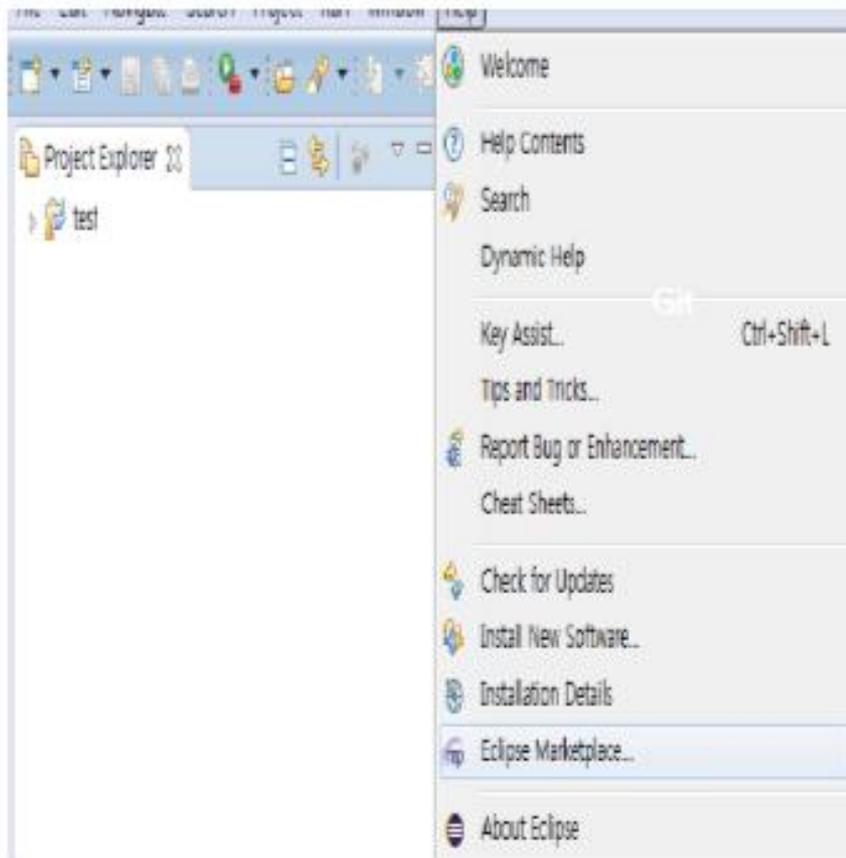
II. GIT

Git Branching



II. GIT

How to Install?

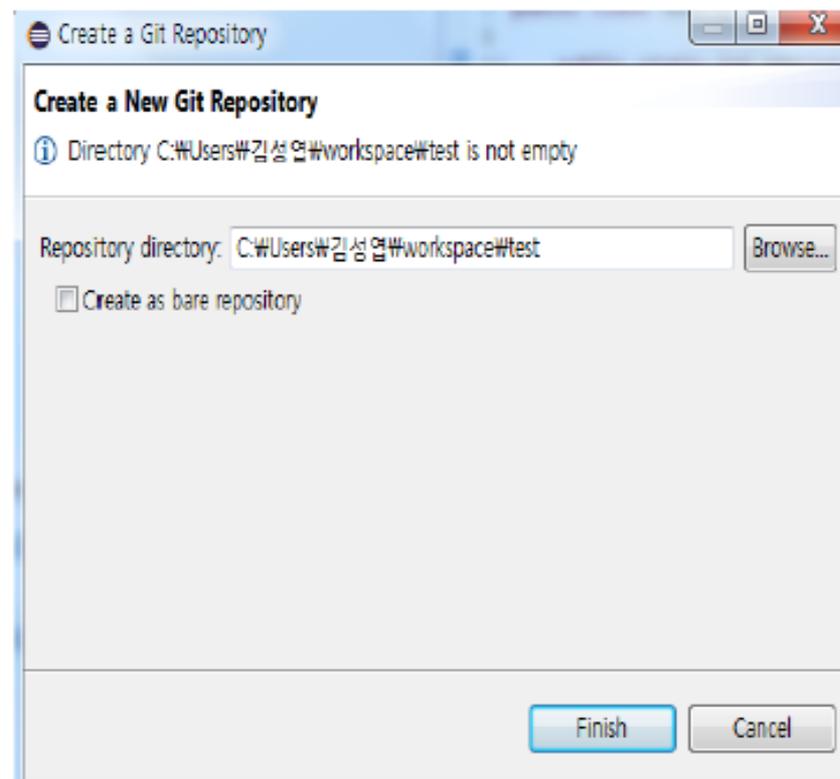
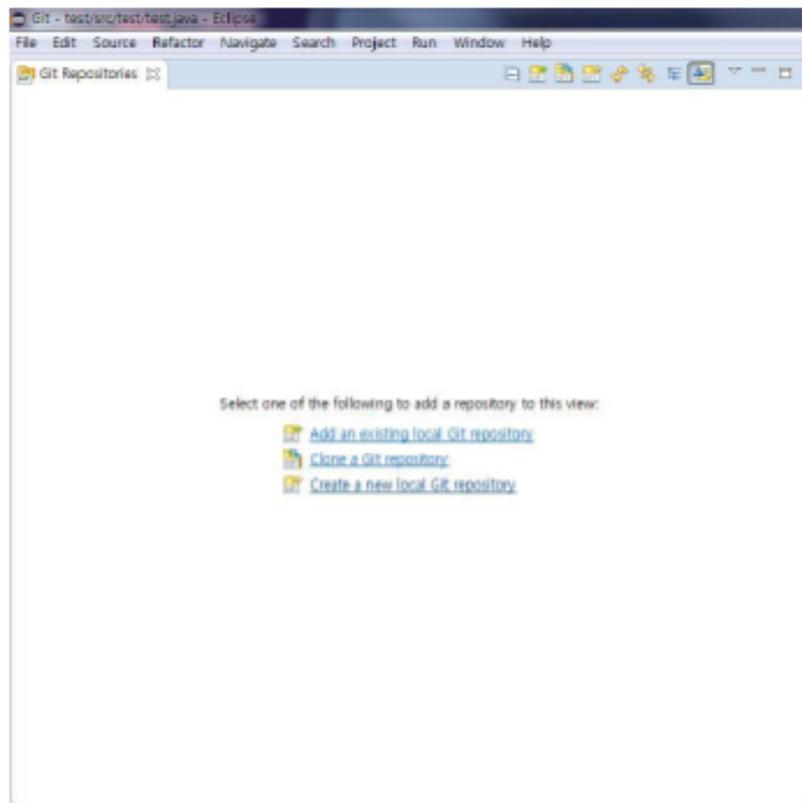


II. GIT

How to Install?

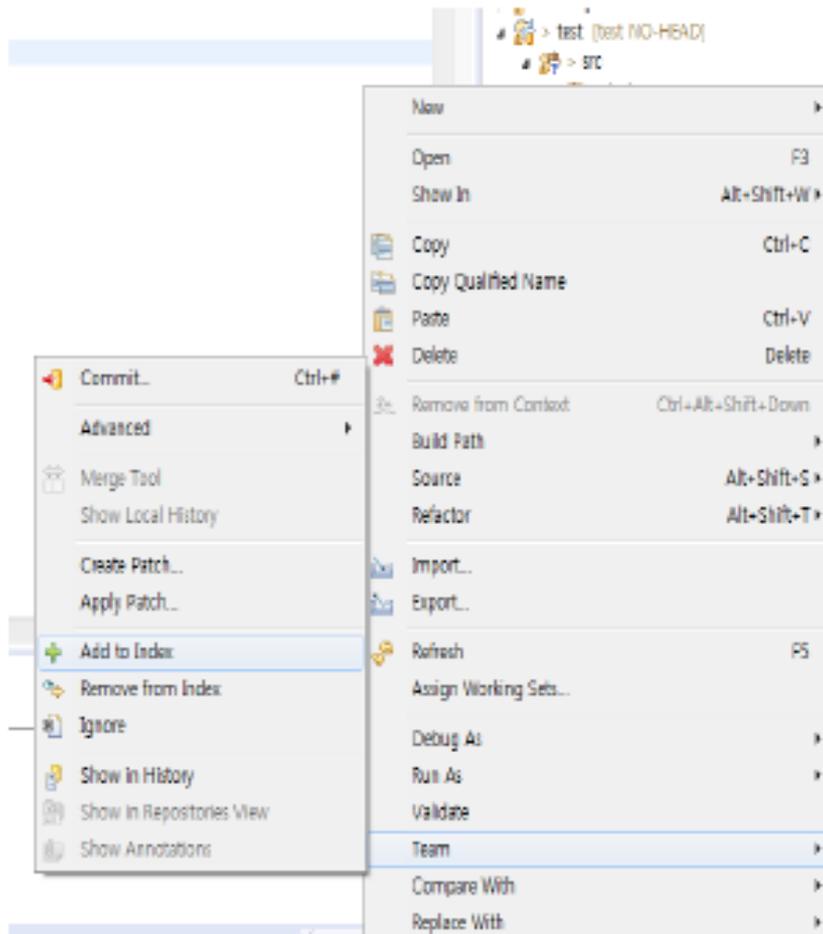
stuff

Setting Up Git



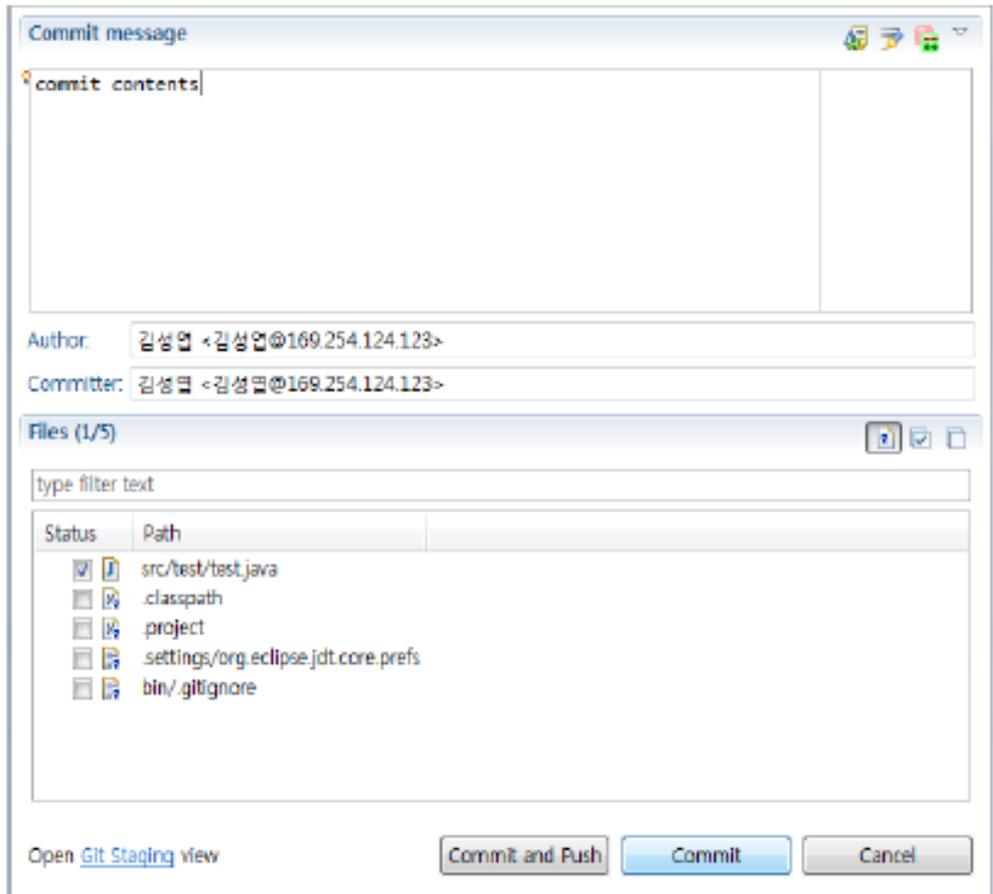
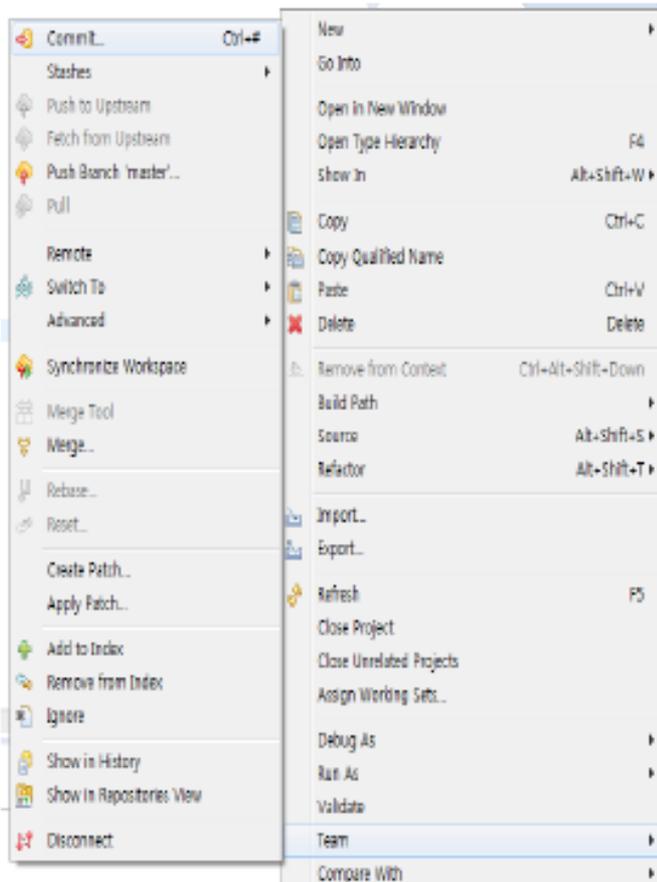
II. GIT

How to Install?



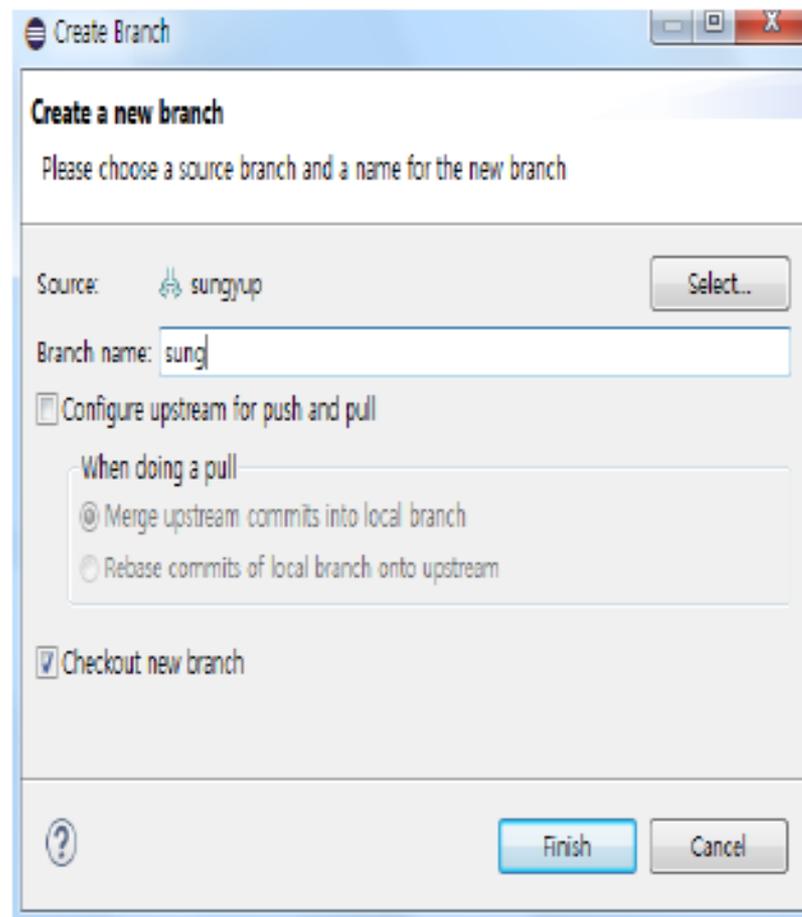
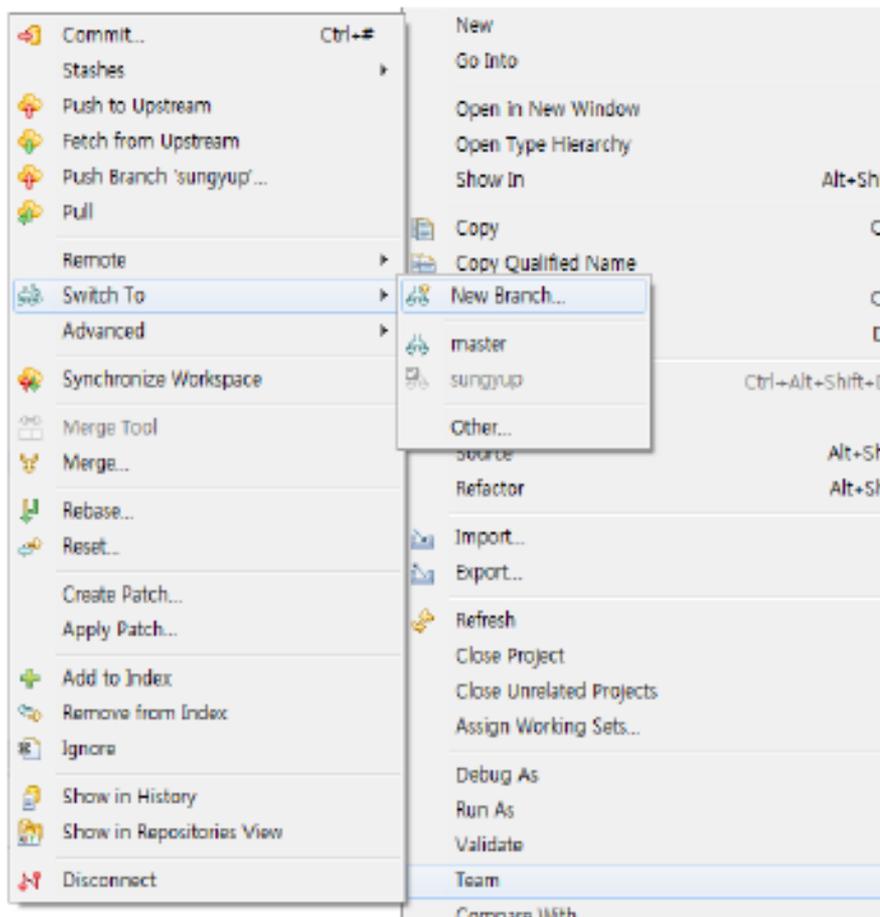
II. GIT

How to Install?



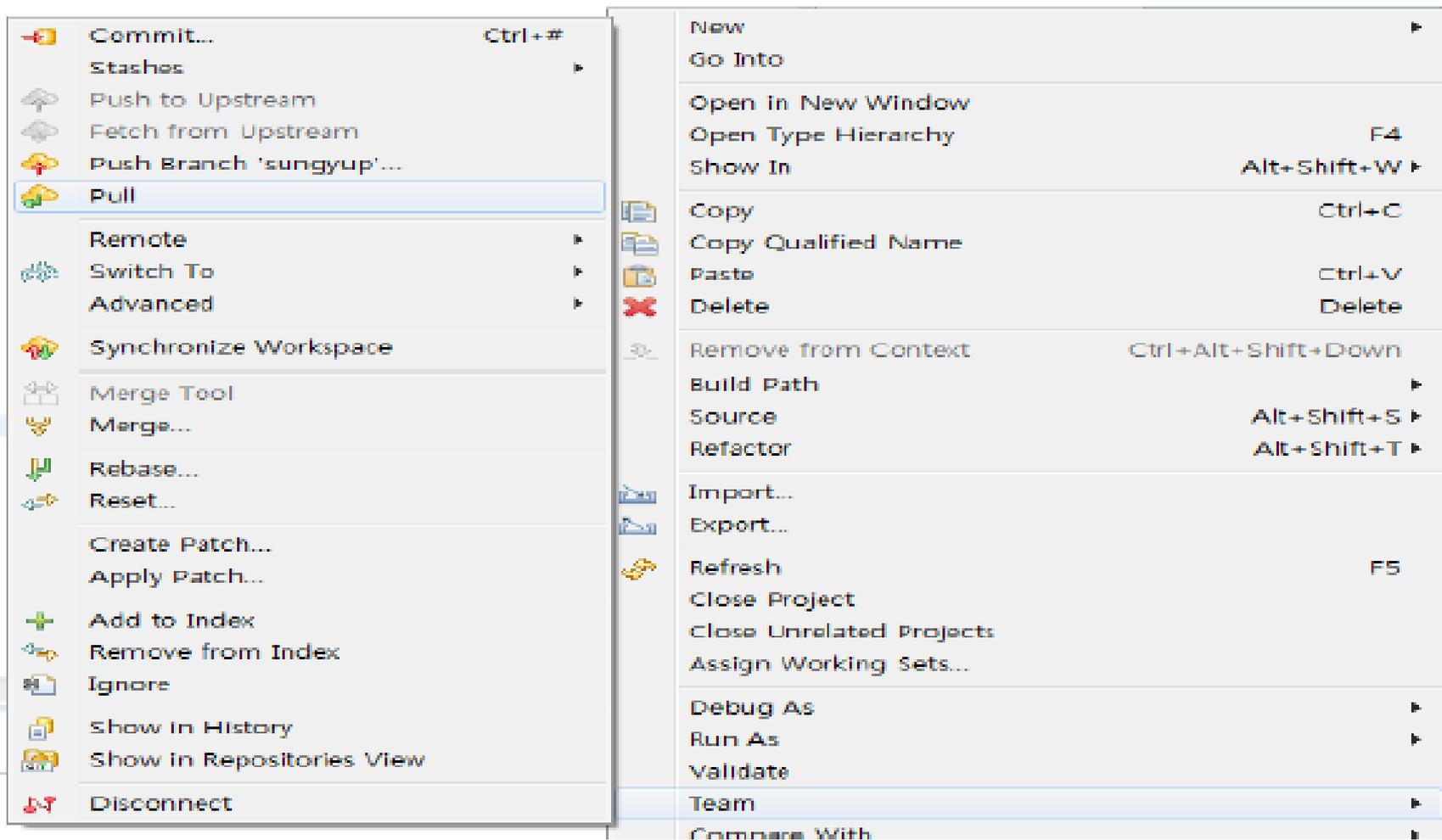
II. GIT

How to Install?



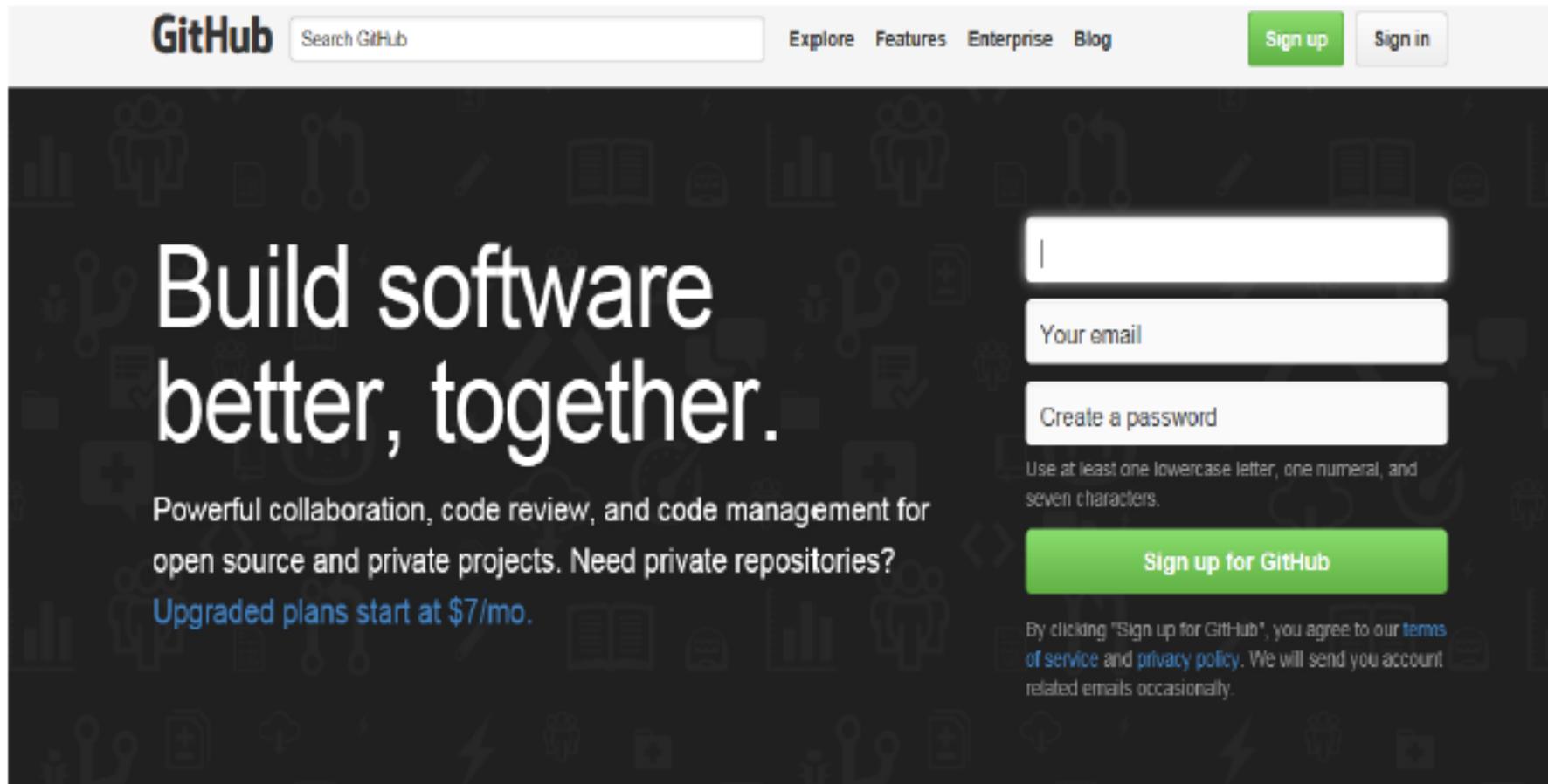
II. GIT

How to Install?



II. GIT

GitHub?



The image shows a screenshot of the GitHub website's sign-up page. At the top left is the GitHub logo. To its right is a search bar with the text "Search GitHub". Further right are navigation links for "Explore", "Features", "Enterprise", and "Blog". On the far right of the top bar are two buttons: a green "Sign up" button and a white "Sign in" button. The main content area has a dark background with the headline "Build software better, together." in large white text. Below the headline is a paragraph: "Powerful collaboration, code review, and code management for open source and private projects. Need private repositories? Upgraded plans start at \$7/mo." To the right of the headline is a sign-up form with three input fields: a name field, a "Your email" field, and a "Create a password" field. Below the password field is a note: "Use at least one lowercase letter, one numeral, and seven characters." At the bottom of the form is a green "Sign up for GitHub" button. Below the button is a disclaimer: "By clicking 'Sign up for Git-hub', you agree to our [terms of service](#) and [privacy policy](#). We will send you account related emails occasionally."

II. GIT

GitHub?

Search GitHub

Explore Gist Blog Help

kimsungyup +

Owner: kimsungyup / Repository name: test

Great repository names are short and memorable. Need inspiration? How about [furry-octo-hipster](#).

Description (optional)

Public
Anyone can see this repository. You choose who can commit.

Private
You choose who can see and commit to this repository.

Initialize this repository with a README
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: None | Add a license: None

Create repository

II. GIT

GitHub?

The screenshot shows the GitHub interface for a repository named 'kimsungup/test'. At the top, there is a search bar and navigation links for 'Explore', 'Get', 'Blog', and 'Help'. The repository name 'kimsungup/test' is displayed, along with 'Unwatch' and 'Star' buttons. Below this, there is a 'Quick setup' section with a 'Setup in Desktop' button and a text input field containing the repository URL 'https://github.com/kimsungup/test.git'. A note below states 'We recommend every repository include a README, LICENSE, and .gitignore'. At the bottom, there is a section for creating a new repository on the command line, with a code block containing the following commands:

```
echo # test >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/kimsungup/test.git
git push -u origin master
```

The screenshot shows a context menu for a Git repository. The menu items are:

- Commit... (Ctrl+#)
- Stashes
- Push to Upstream
- Fetch from Upstream
- Push Branch 'sungup'...
- Pull
- Remote
- Switch To
- Advanced
- Synchronize Workspace
- Merge Tool
- Merge...
- Rebase...
- Reset...
- Create Patch...
- Apply Patch...
- Add to Index
- Remove from Index
- Ignore
- Show in History
- Show in Repositories View
- Disconnect

On the right side, there is a secondary menu with the following items:

- New
- Go Into
- Open in New Window
- Open Type Hierarchy
- Show In (Alt+Shift+V)
- Copy (Ctrl+)
- Copy Qualified Name
- Paste (Ctrl+)
- Delete (Del)
- Remove from Context (Ctrl+Alt+Shift+Dow)
- Build Path
- Source (Alt+Shift+)
- Refactor (Alt+Shift+)
- Import...
- Export...
- Refresh (F)
- Close Project
- Close Unrelated Projects
- Assign Working Sets...
- Debug As
- Run As
- Validate
- Team
- Compare With

II. GIT

GitHub?

Push Branch sungyup

Destination Git Repository

Enter the location of the destination repository.

Remote name:

Location

URI: Local File...

Host:

Repository path:

Connection

Protocol:

Port:

Authentication

User:

Password:

Store in Secure Store

This repository Search Explore Get Blog Help kimsungyup

kimsungyup / test Unwatch Star Fork

Description Website

Start description of this repository Website for this repository (optional) Save Cancel

1 commit 1 branch 0 releases 0 contributors

Branch: sungyup test / +

test commit

authored 44 minutes ago latest commit

test commit 44 minutes ago

Help people interested in this repository understand your project by adding a README Add a README

Code Issues Pull requests Wiki

Full Page Graphs Settings

HTTPS clone URL

You can clone with HTTPS, SSH, or Subversion

Clone in Desktop

Download ZIP

III. JUnit

JUnit? | How to Use? | JUnit Assert Class |
JUnit Annotation

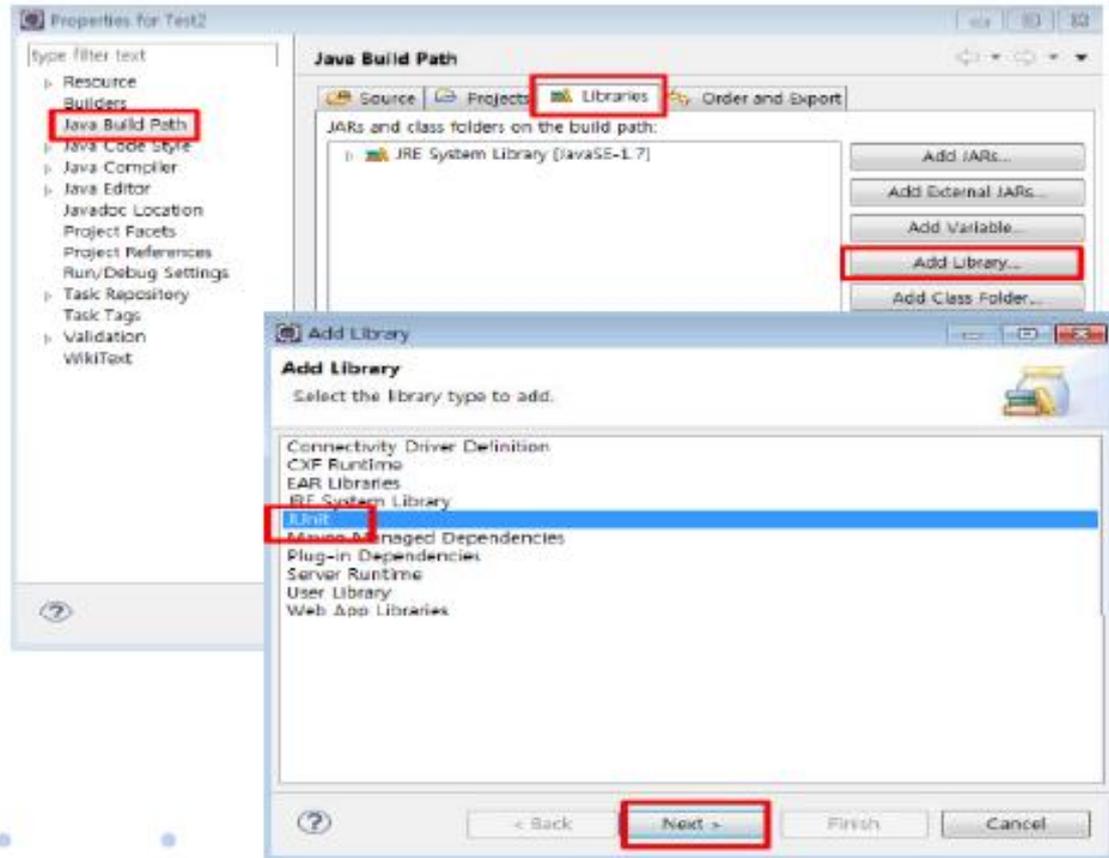
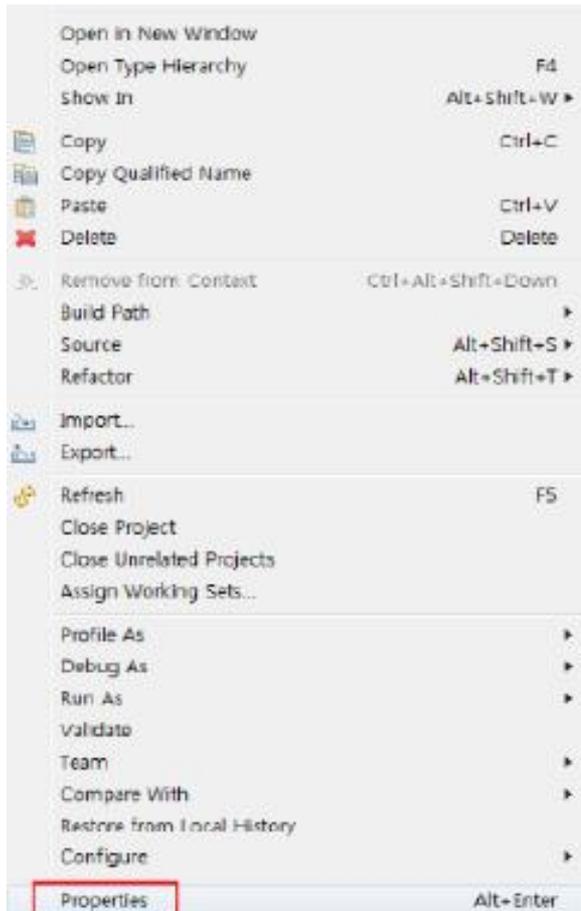
III. JUnit

What is Junit?

- ✓ Unit testing을 위한 framework
- ✓ Source code를 최적화 하기 위해 사용
- ✓ Testing을 위한 클래스를 생성

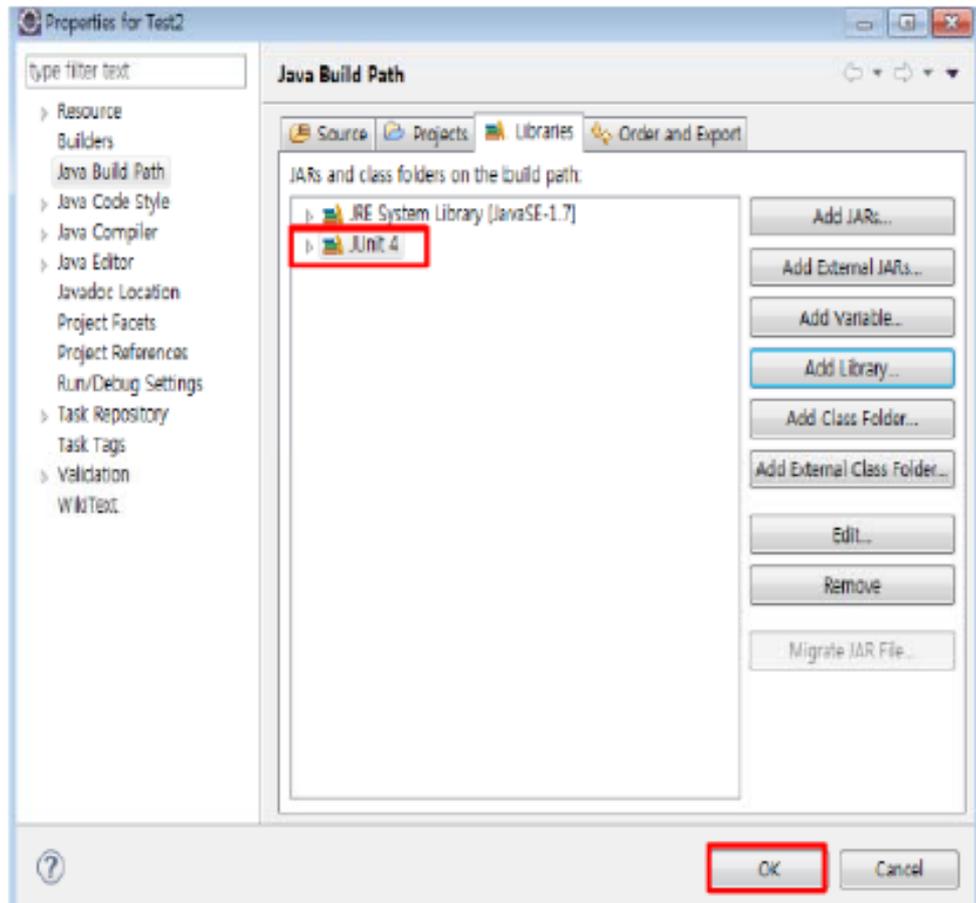
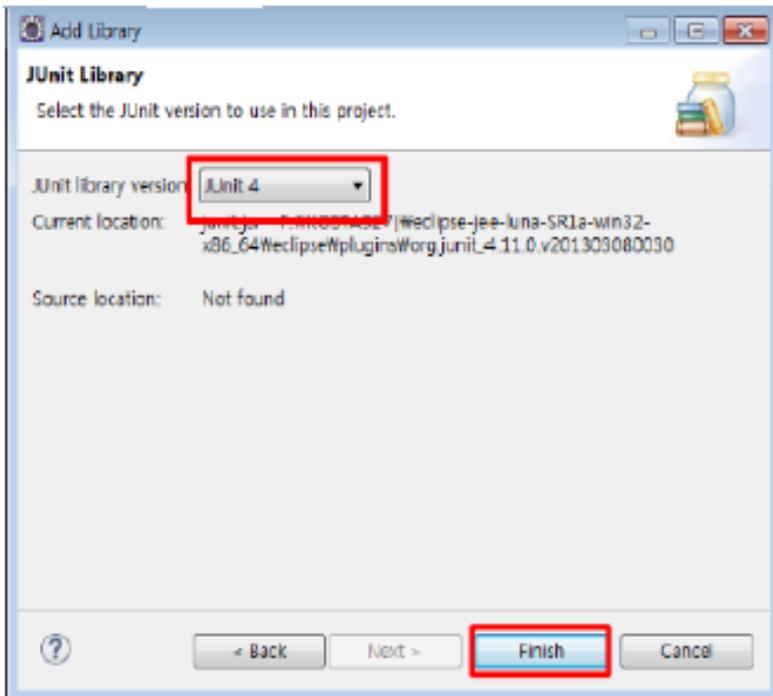
III. JUnit

How to Use?



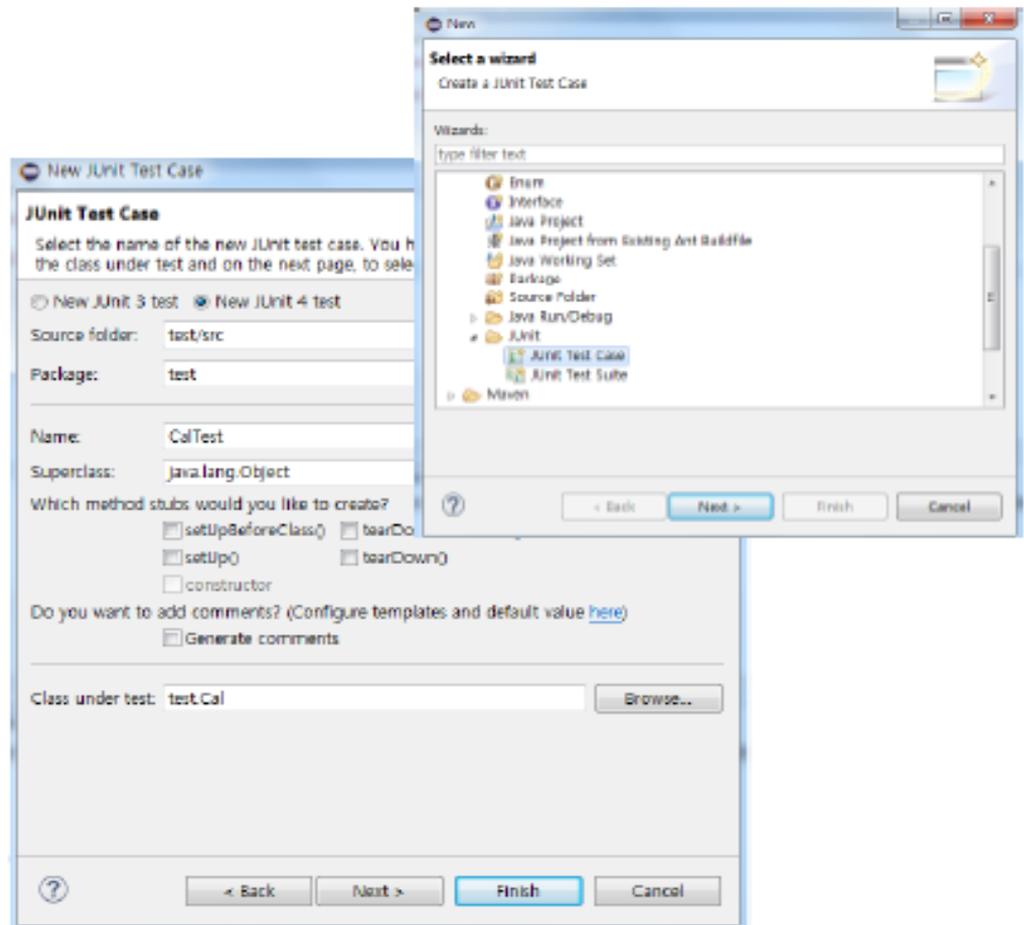
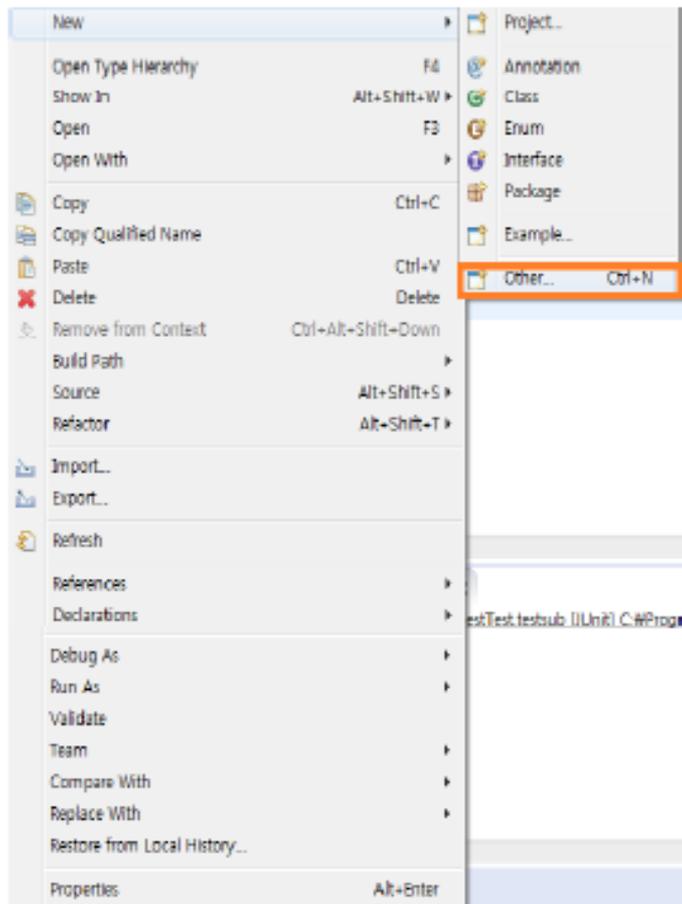
III. JUnit

How to Use?



III. JUnit

How to Use?



III. JUnit

How to Use?

```
package test;

public class test {

    public static int add(int a, int b){
        return a+b;
    }
    public static int sub(int a, int b){
        return a-b;
    }
    public static int mul(int a, int b){
        return a*b;
    }
    public static int div(int a, int b){
        return a/b;
    }
}
```

```
package test;

import static org.junit.Assert.*;

public class testTest {

    @Test
    public void testAdd() {
        fail("Not yet implemented");
    }

    @Test
    public void testSub() {
        fail("Not yet implemented");
    }

    @Test
    public void testMul() {
        fail("Not yet implemented");
    }

    @Test
    public void testDiv() {
        fail("Not yet implemented");
    }
}
```

III. JUnit

How to Use?

```
package test;

import static org.junit.Assert.*;

public class testTest {

    test test_Test;
    @Test
    public void testAdd() {
        int result = test_Test.add(2,3);
        assertEquals(result,2);
    }

    @Test
    public void testSub() {
        int result = test_Test.sub(3, 2);
        assertEquals(result,1);
    }

    @Test
    public void testMul() {
        int result = test_Test.mul(3, 2);
        assertEquals(result,6);
    }

    @Test
    public void testDiv() {
        int result = test_Test.div(4, 2);
        assertEquals(result,2);
    }
}
```

Console JUnit

Finished after 0.027 seconds

Runs: 4/4 Errors: 0 Failures: 1

test.testTest (Runner: JUnit 4) (0.005 s)

- testAdd (0.005 s)
- testDiv (0.000 s)
- testMul (0.000 s)
- testSub (0.000 s)

Failure Trace

java.lang.AssertionError: expected <5> but was <2>
at test.testTest.testAdd(testTest.java:13)

III. JUnit

JUnit Assert Class

- ✓ 예상 결과 값과 실제 결과 값이 다른 경우
 - ➔ test가 실패
- ✓ 같은 경우 ➔ 성공

III. JUnit

JUnit Assert Class

메소드 이름	설명
<code>assertArrayEquals(Object[] expected, Object[] actual)</code>	두 개의 배열이 같은지 확인한다. <code>expected</code> 매개변수에는 예상되는 값을 넣고 <code>actual</code> 은 실행 결과 값을 넣는다.
<code>assertEquals(Object expected, Object actual)</code>	두 개의 매개변수가 같은지 확인한다. 메소드 이름에서 추측할 수 있듯이 내부적으로 <code>equals()</code> 메소드를 사용하기 때문에 값이 같은지만 확인한다.
<code>assertSame(Object expected, Object actual)</code>	두 개의 매개변수가 같은지 확인한다. <code>assertEquals()</code> 와 달리 JVM 메모리 주소까지 같은지 확인한다.
<code>assertNotSame(Object expected, Object actual)</code>	두 개의 매개변수가 다른지 확인한다. <code>assertSame()</code> 메소드와 반대되는 기능이다.
<code>assertNull (Object target)</code>	매개변수 <code>target</code> 이 <code>null</code> 인지 확인한다.
<code>assertNotNull(Object target)</code>	매개변수 <code>target</code> 이 <code>null</code> 이 아닌지 확인한다.
<code>assertTrue(boolean condition)</code>	매개변수 <code>condition</code> 이 <code>true</code> 인지 확인한다.
<code>assertFalse(boolean condition)</code>	매개변수 <code>condition</code> 이 <code>false</code> 인지 확인한다.

III. JUnit

JUnit Annotation

Annotation	Explanation
@Test	Unit Test를 수행할 Method
@Ignore	Test를 수행하지 않을 Method
@After	Test Method가 실행 전,후 초기화 및 자원 정리
@Before	
@AfterClass	모든 Method에 대한 Test 수행 전 후에 한번 초기화 및 자원 정리
@BeforeClass	

III. JUnit

JUnit Annotation

```
package test;
import static org.junit.Assert.*;

public class testTest {
    test test_Test;
    @Before
    public void testAdd() {
        System.out.println("@Before 실행");
    }
    @After
    public void testSub() {
        System.out.println("@After 실행");
    }
    @BeforeClass
    public static void testMul() {
        System.out.println("@BeforeClass 실행");
    }
    @AfterClass
    public static void testDiv() {
        System.out.println("@AfterClass 실행");
    }
    @Test
    public void test1() {
        System.out.println("@Test1 실행");
    }
    @Test
    public void test2() {
        System.out.println("@Test2 실행");
    }
}
```



@BeforeClass 실행
@Before 실행
@Test1 실행
@After 실행
@Before 실행
@Test2 실행
@After 실행
@AfterClass 실행

IV. CTIP

CTIP? | Setting

◆ 지속적 통합

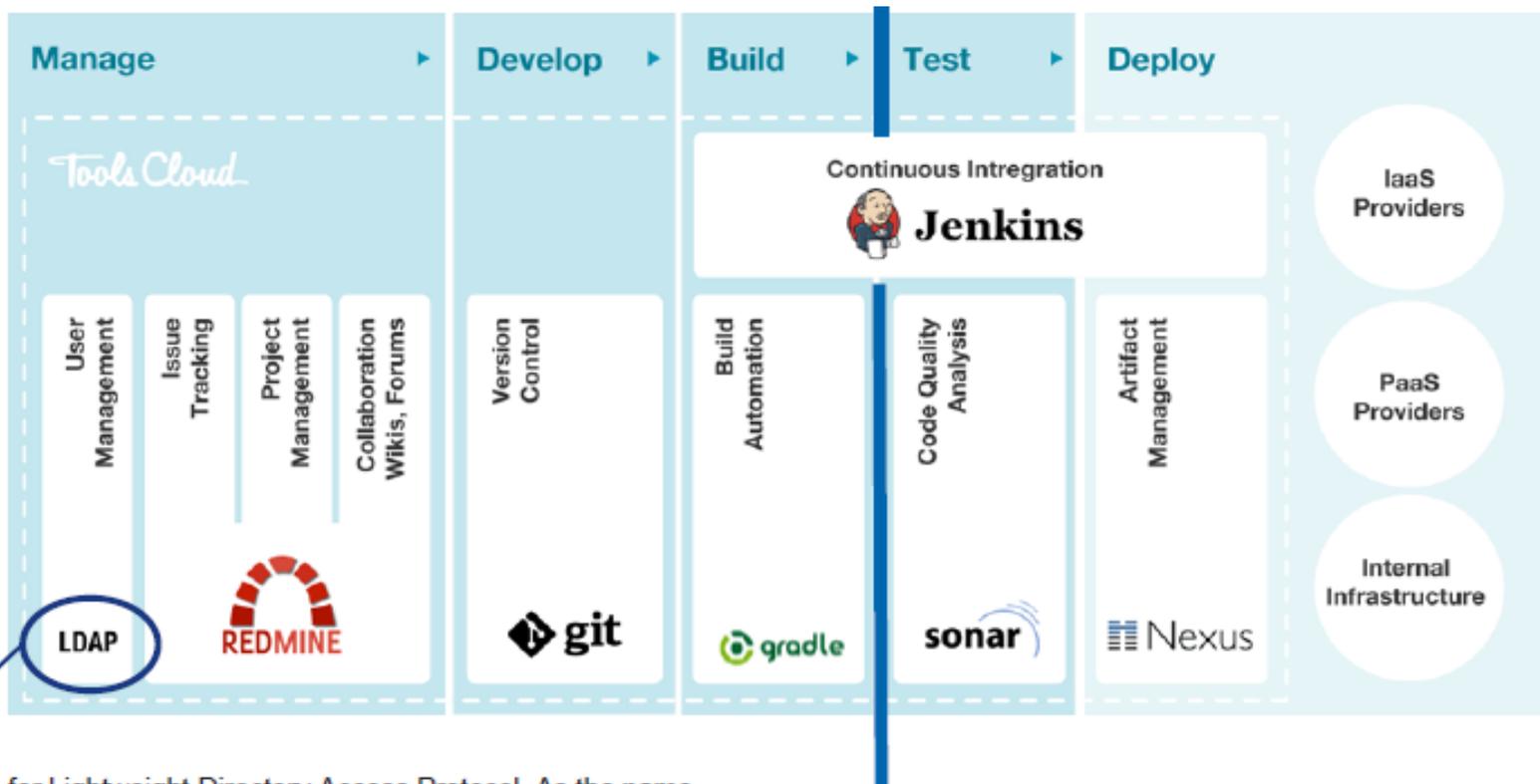
개발자는 소스 저장소로부터 최신 소스를 Check out

➡ 검증 ➡ 작업 내용을 소스 저장소에 Check in

- ✓ 많은 프로젝트를 관리
- ✓ Time tracking
- ✓ 웹 기반
- ✓ Git와 연동
- ✓ Role-based access 제어

IV. CTIP

What is CTIP?



LDAP stands for Lightweight Directory Access Protocol. As the name suggests, it is a lightweight client-server protocol for accessing directory services

We are here

IV. CTIP

Git plugin setting

소스 코드 관리

- None
- CVS
- CVS Projectset
- Git

Repositories

Repository URL ⓘ

Credentials Add ⓘ

고급...

Add Repository

Delete Repository

Branches to build

Branch Specifier (blank for 'any') ⓘ

Add Branch

Delete Branch

Repository browser

ⓘ

저장

취소

IV. CTIP

Git plugin setting

빌드 유발

- Build after other projects are built
- Build periodically
- Build when a change is pushed to GitHub
- Poll SCM

Check to automatically 'pull' from Github and build when a 'push' is triggered

Build

Invoke Gradle script

Invoke Gradle

Gradle Version

(Default)

Use Gradle Wrapper

Build step description

저장

적용

IV. CTIP

CTIP(Jenkins - Github)



Jenkins

Jenkins > Test >

- ↑ [대시보드로 돌아가기](#)
- 🔍 [상태](#)
- 📝 [변경사항](#)
- 📁 [작업공간](#)
- 🕒 [Build Now](#)
- 🚫 [Project 삭제](#)
- 🔧 [구성](#)
- 🔗 [Redmine - Test](#)
- 🔗 [GitHub](#)**
- 📄 [GitHub Hook Log](#)

[Build History](#) [추이](#) =

🌐 #7	2015. 4. 2 오후 7:52
----------------------	--------------------

Project Test

- 📁 [작업공간](#)
- 📝 [최근 변경사항](#)

고정링크

- [Last build, \(#7\), 39 min 전](#)
- [Last stable build, \(#7\), 39 min 전](#)
- [Last successful build, \(#7\), 39 min 전](#)
- [Last failed build, \(#6\), 40 min 전](#)
- [Last unsuccessful build, \(#6\), 40 min 전](#)

IV. CTIP

CTIP(Github)

GitHub This repository Search Explore Features Enterprise Blog Sign up Sign in

fsw0422 / Test Watch 1 Star 0 Fork 0

2 commits 1 branch 0 releases 1 contributor

branch: master Test / +

added build.gradle script

fsw0422 authored 2 days ago latest commit de7f8ec966

.settings/gradle	first commit	2 days ago
src	first commit	2 days ago
.classpath	first commit	2 days ago
.gitignore	first commit	2 days ago
.project	first commit	2 days ago
build.gradle	added build.gradle script	2 days ago

Code Issues 0 Pull requests 0 Pulse Graphs

HTTPS clone URL
https://github.com

You can clone with HTTPS or Subversion.

Download ZIP

IV. CTIP

Redmine Plugin Setting

Jenkins 관리

Unsecured Jenkins allows anyone on the network to launch processes on your behalf. Consider at least enabling authentication to discourage misuse.

- 시스템 설정**
환경변수 및 경로 정보등을 설정합니다.
- Configure Global Security**
Secure Jenkins; define who is allowed to access/use the system.
- Reload Configuration from Disk**
Discard all the loaded data in memory and reload everything from file system. Useful when you modified config files directly on disk.
- 플러그인 관리**
Jenkins의 기능을 확장하기 위한 플러그인을 추가, 제거, 사용, 미사용으로 설정할 수 있습니다. (업데이트 가능함)
- 시스템 정보**
문제 해결을 돕기위한 다양한 환경 정보를 보여줍니다.
- System Log**
System log captures output from java.util. Logging output related to Jenkins.
- 부하 통계**
Check your resource utilization and see if you need more computers for your builds.
- Jenkins CLI**
Access/manage Jenkins from your shell, or from your script.
- Script Console**
Executes arbitrary script for administration/trouble-shooting/diagnostics.

새로운 Item

사람

빈드 기록

Jenkins 관리

Credentials

Jenkins 100K

빈드 대기 목록

빈드 대기 항목이 없습니다.

빈드 실행 상태

- 대기 중
- 대기 중

IV. CTIP

Redmine Plugin Setting

Redmine

Redmine websites

Name	<input type="text" value="Redmine"/>
Base url	<input type="text" value="http://localhost/redmine/"/>
Version number	<input type="text" value="3.0.1"/>

Git plugin

Global Config user.name Value	<input type="text"/>
Global Config user.email Value	<input type="text"/>

Create new accounts base on author/commiter's email

CVS

IV. CTIP

Redmine Plugin Setting

The screenshot shows the Jenkins web interface for a project named 'Test'. The top navigation bar includes 'Jenkins' and 'Test'. On the left sidebar, there are several menu items: '대시보드로 돌아가기', '상태', '변경사항', '작업공간', 'Build Now', 'Project 삭제', '구성' (highlighted with a red box), 'Redmine - Test', 'GitHub', and 'GitHub Hook Log'. The main content area is titled 'Project Test' and contains two icons: '작업공간' (Workspace) and '최근 변경사항' (Recent Changes). Below these is a section titled '고정링크' (Fixed Links) with a list of links: 'Last build. (#7). 3 hr 53 min 전', 'Last stable build. (#7). 3 hr 53 min 전', 'Last successful build. (#7). 3 hr 53 min 전', 'Last failed build. (#6). 3 hr 54 min 전', and 'Last unsuccessful build. (#6). 3 hr 54 min 전'. At the bottom left, there is a 'Build History' table with columns for build number, date, and time.

Build Number	Date	Time
#7	2015. 4. 2	오후 7:52
#6	2015. 4. 2	오후 7:51
#5	2015. 4. 2	오후 7:45
#4	2015. 4. 2	오후 7:39
#3	2015. 4. 2	오후 7:36
#2	2015. 4. 2	오후 7:34
#1	2015. 4. 2	오후 7:32

IV. CTIP

Redmine Plugin Setting

The screenshot shows the Jenkins configuration page for a job named 'Test'. The page is in Korean. On the left, there is a sidebar with navigation links: '대시보드로 돌아가기', '상태', '변경사항', '작업공간', 'Build Now', 'Project 삭제', '구성', 'Redmine - Test', 'GitHub', and 'GitHub Hook Log'. Below the sidebar is a 'Build History' table.

Build Number	Time
#7	2015. 4. 2 오후 7:52
#6	2015. 4. 2 오후 7:51
#5	2015. 4. 2 오후 7:45
#4	2015. 4. 2 오후 7:39
#3	2015. 4. 2 오후 7:36
#2	2015. 4. 2 오후 7:34
#1	2015. 4. 2 오후 7:32

The main configuration area is titled '환경설정' (Environment Settings). It includes the following fields and options:

- 이름 (Name):** Test
- 설명 (Description):** (Empty text area)
- 오래된 빌드 삭제 (Delete old builds):**
- Assign Redmine project (Assign Redmine project):**
 - Redmine website:** Redmine (http://localhost/redmine/)
 - Redmine project name:** Test
 - GitHub project:** http://github.com/ysw0422/Test/
- 이 빌드는 예약번호가 있습니다 (This build has a reservation number):**
- 빌드 안함 (프로젝트가 다시 빌드를 할 때까지 새로운 빌드가 실행되지 않습니다) (Do not build (no new builds are executed until the project builds again)):**
- 필요한 경우 concurrent 빌드 실행 (Execute concurrent builds if necessary):**

At the bottom, there are buttons for '저장' (Save) and '적용' (Apply), and a '고급...' (Advanced...) link.

IV. CTIP

CTIP(Jenkins-Redmine)

Jenkins

Jenkins > Test

- 대시보드로 돌아가기
- 상태
- 변경사항
- 작업공간
- Build Now
- Project 삭제
- 구성
- Redmine - Test**
- GitHub
- GitHub Hook Log

Build History 추이 =>

2015. 4. 2 오후 7:52

Project Test

- 작업 공간
- 최근 변경사항

고정링크

- [Last build, \(#7\), 39 min 전](#)
- [Last stable build, \(#7\), 39 min 전](#)
- [Last successful build, \(#7\), 39 min 전](#)
- [Last failed build, \(#6\), 40 min 전](#)
- [Last unsuccessful build, \(#6\), 40 min 전](#)

IV. CTIP

CTIP(Redmine)

[Home](#) [My page](#) [Projects](#) [Administration](#) [Help](#)

Test

Overview [Activity](#) [Issues](#) [New issue](#) [Gantt](#) [Calendar](#) [News](#) [Documents](#) [Wiki](#) [Files](#) [Settings](#)

Overview



Issue tracking

- Bug: 0 open / 0
- Feature: 0 open / 0
- Support: 0 open / 0

[View all issues](#) | [Calendar](#) | [Gantt](#)

Q&A ?

THANK YOU