CM & RE Tool

T3

Marvin Habermann

오희수

정훈섭

진경훈

1. Configuration Management Tool

2. Requirement Engineering Tool

1. Configuration Management Tool

- 1.1 What is CM & SCM?
- 1.2 Why we need it?
- 1.3 SCM process
- 1.4 SCM tools & Subclipse
- 1.5 Benefit of SCM
- 2. Requirement Engineering Tool

1. Configuration Management Tool

2. Requirement Engineering Tool

- 2.1 What is Requirement?
- 2.2 Requirement Management Requirement Engineering
- 2.3 Why we need it
- 2.4 RE proccess
- 2.5 RE tools & JFeature
- 2.6 Benefit of RE

CM tool

What is CM & SCM?

Configuration is the functional and physical characteristics of hardware and software as set forth in technical documentation or achieved in a product

What is CM & SCM?

Configuration management is unique identification, controlled storage, change control and status reporting of selected intermediate work products, product components and products during the life of a system.

What is CM & SCM?

Software Configuration management is the task of tracking and controlling changes in the software throughout its life cycle.

Why we need it?

Lack of Visibility
Difficulty of Control
Difficult to track
Inconsistency

Identify Configuration items
Control Configuration items
Perform Configuration audits
Establish CM Records

Identify Configuration items

Control Configuration items
Perform Configuration audits

- : Start of the SCM.
- : Identify system components which should be managed in SCM process.

Identify Configuration items

Control Configuration items

Perform Configuration audits
Establish CM Records

: review the changes and control them to apply baseline.

Identify Configuration items
Control Configuration items

Perform Configuration audits

Establish CM Records

: check the integrity whether changes are applied properly

Identify Configuration items
Control Configuration items
Perform Configuration audits

Establish CM Records

: record all changes during software life cycle in documents.

Terms used in SCM

Version is initial release or re-release of software configuration item, associated with a complete compilation or recompilation of the computer software configuration item

Revision indicate particular points in the s/w development cycle when there are changes.

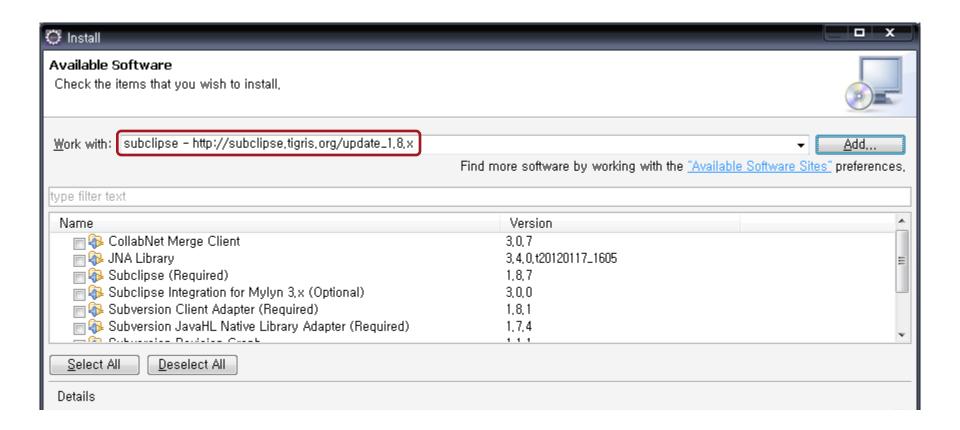
Terms used in SCM

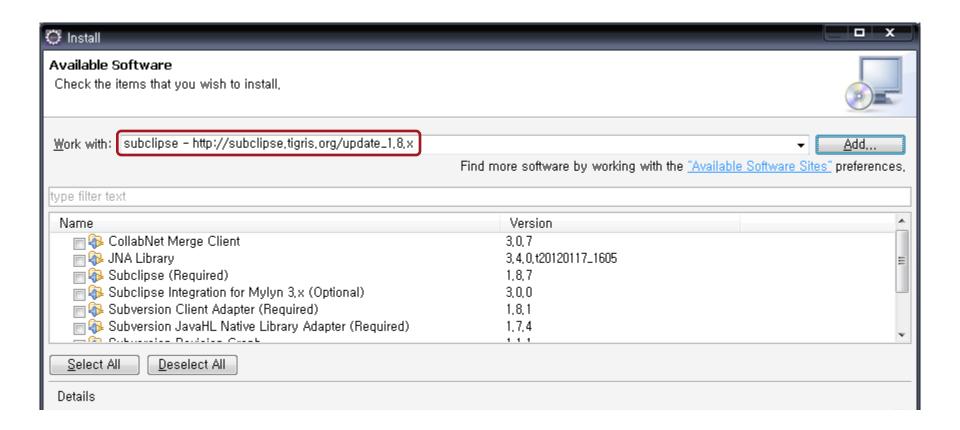
Baseline is a specification or product that has been formally reviewed an agreed upon, that thereafter serves as the basis for further development, and that can be changed only through formal change control procedures.

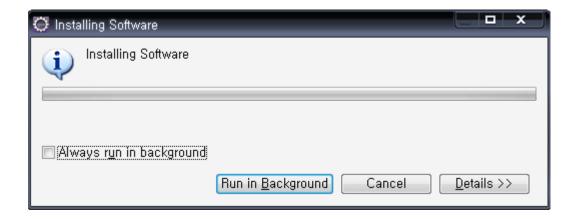
SCM tools

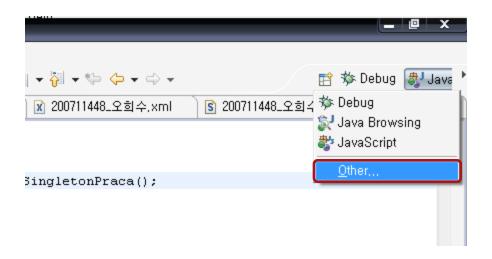
Subversion
Subclipse
TortoiseSVN / RabbitCVS
Github

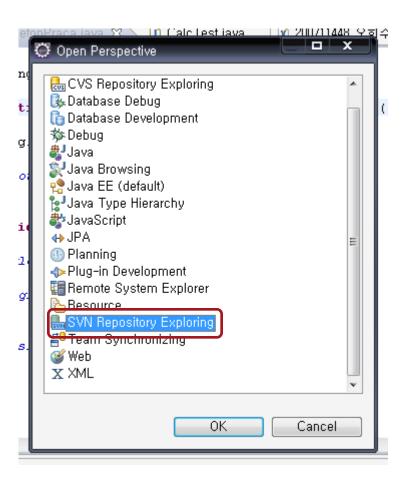
Redmine Trac

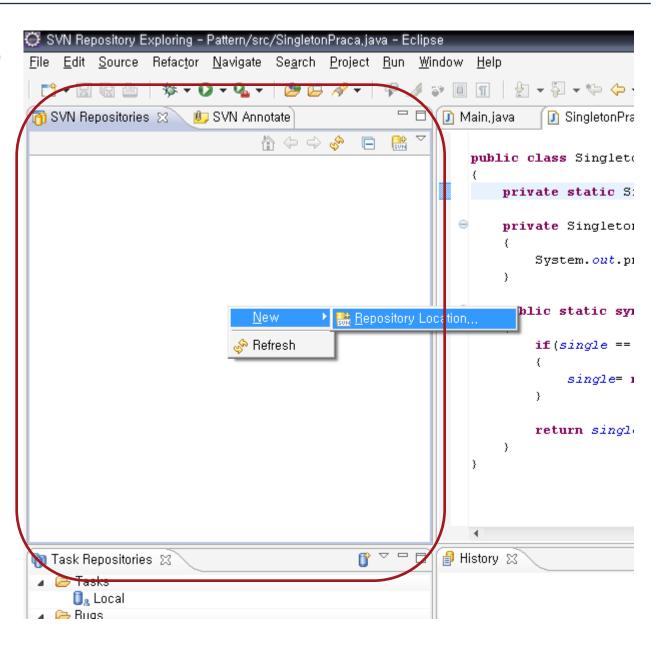














Need to set up the server Should get license(Enterprise Edition)

2012.01.27 17:16

NAVER 개발자센터

개발자센터 홈 오픈소스 오픈API 오픈프로젝트 TECH INSIGHT 모든프로젝트 ▼





개발자센터 새소식

• [공지사항] 네이버 개발자 센터 업그레이드 작업 중입니다 [18] **오픈소스** |

나의 프로젝트 등록 개발에 필요한 모든 기능을 지원해 드려요

serapis_ 님 환영합니다.

프로젝트 등록

아래의 설명을 주의깊게 읽어보시고, 완전하고 자세한 내용을 제공해 주십시오. 프로젝트 공개설명은 필수입니다.

프로젝트 이름	helloworld
프로젝트 아이디	kdhelloworld
프로젝트 공개 설명	SVN repository를 생성하기 위한 테스트
코드관리시스템	SVN

■ 타인의 지적재산권이나 저작권을 침해할 경우 이용이 제한될 수 있음에 동의합니다.

확인

l 익명 Subversion 권한

이 프로젝트의 SVN 저장소는 다음과 같은 방법을 통해 <mark>익명으로 체크아</mark> 웃하실 수 있습니다.

- syn checkout --username anonsyn https://dev.naver.com/syn/kdsubclipse
- The password is 'anonsyn'

Subversion(SVN)에 대한 문서 모 참고하실 수 있습니다.

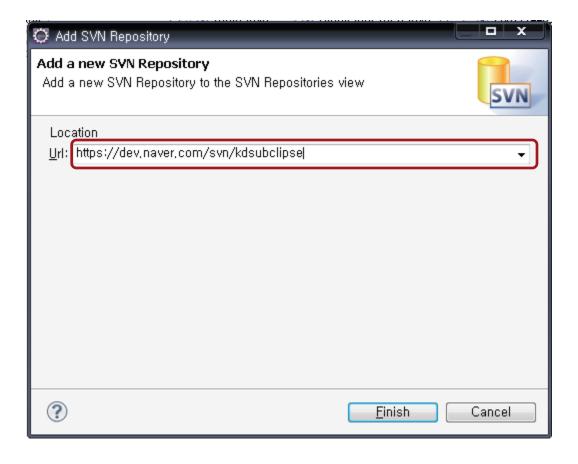
I DAV를 통한 개발자의 Subversion 접근

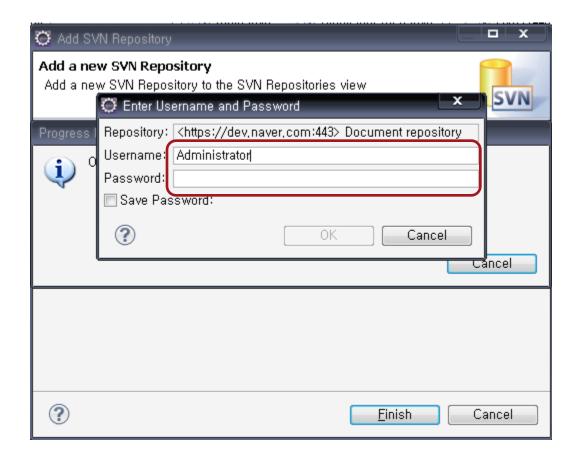
프로젝트에 개발자로 등록되어 있는 사람만이 이 방법을 사용하실 수 있습니다. developemame을 적절히 바꾸어서 넣어 주시면 됩니다. 비밀번호는 자기 자신의 비밀번호를 입력하세요.

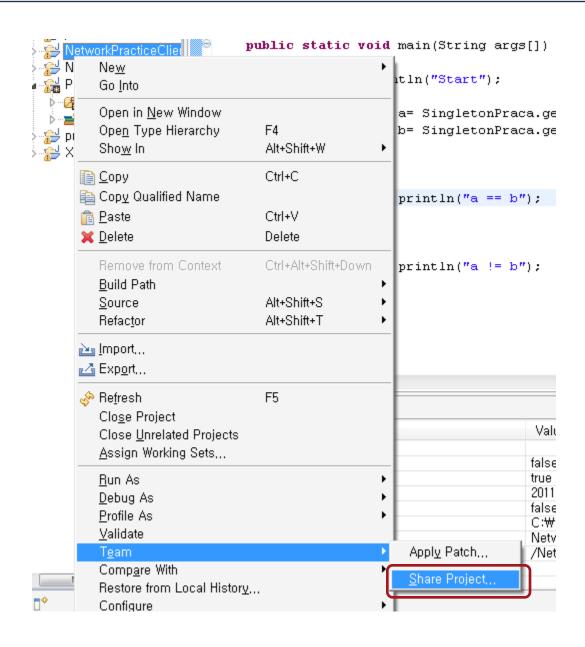
 svn checkout --username developername https://dev.naver.com/svn/kdsubclipse

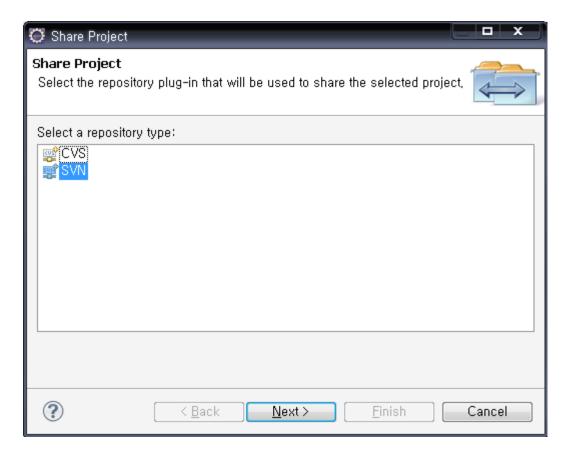
다렉토리 위치 :
파일 개수 : 0개 다렉토리 리비전 : 1 / 1 스타키 리비전 : 설정
파일 출 청종 로그 메세지 작성자 최종변경일 리비전

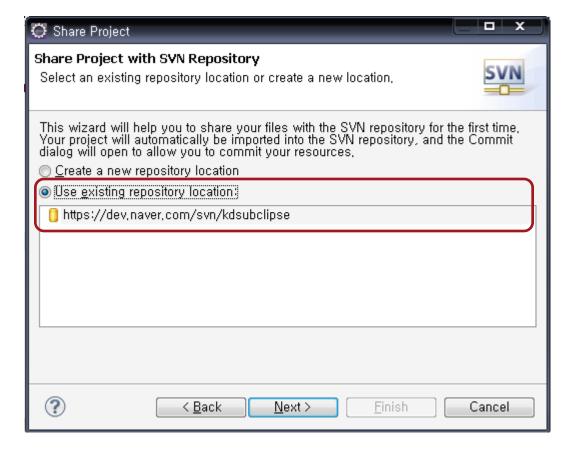
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tags/	Initial	anonsvn	15 분	1
trunk/	Initia.l	anonsvn	15 분	1

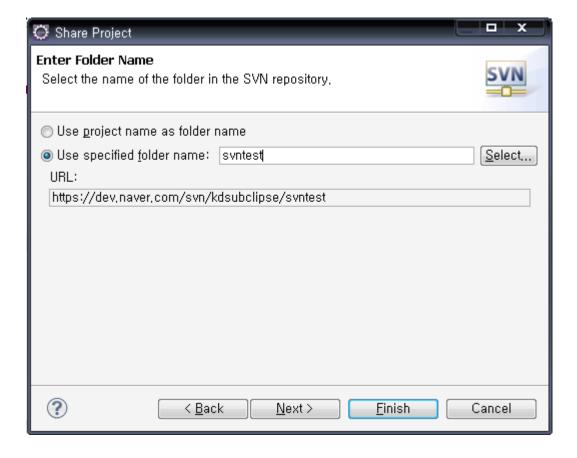


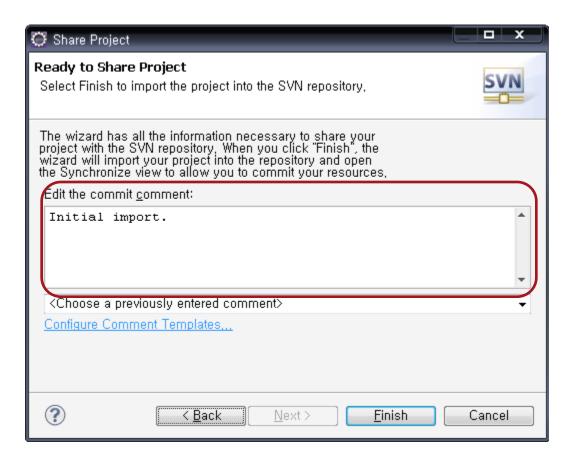


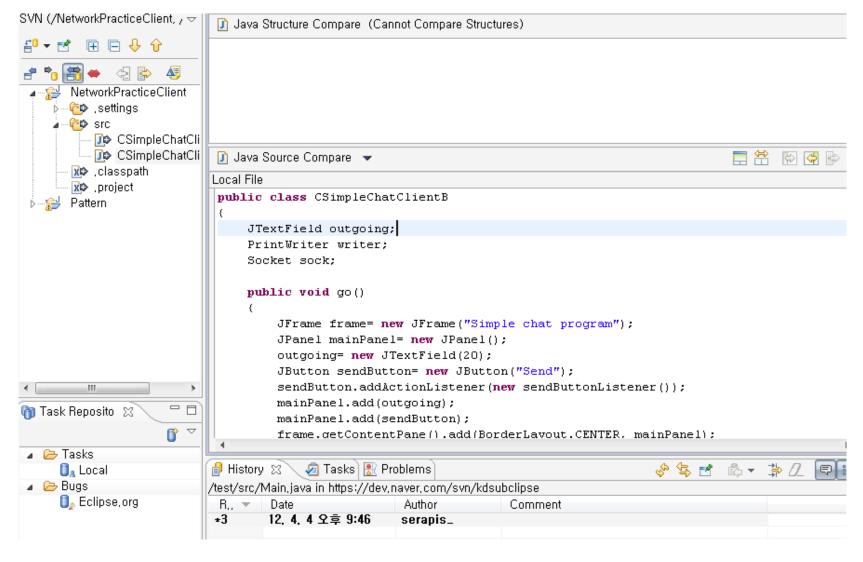












Commit
Update
Check Out
Compare

Commit

Update
Check Out
Compare

Apply the changes of the files to the repository

Commit

Update

Check Out

Compare

Get latest files from the repository

Commit Update

Check Out

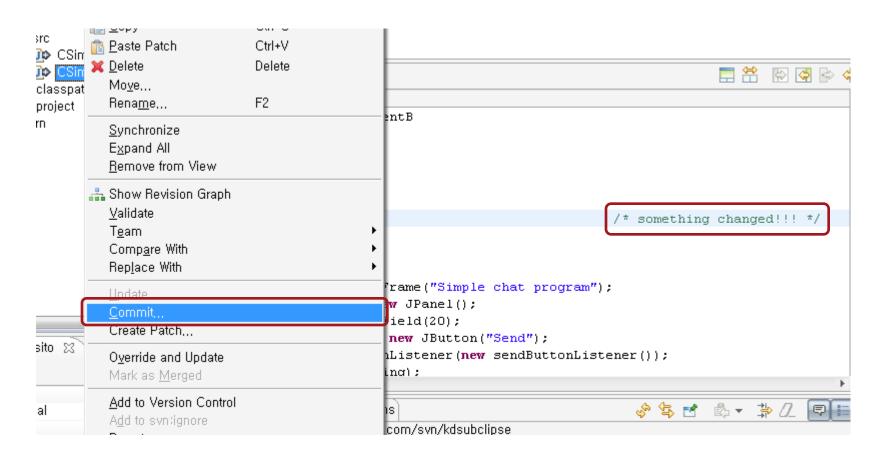
Compare

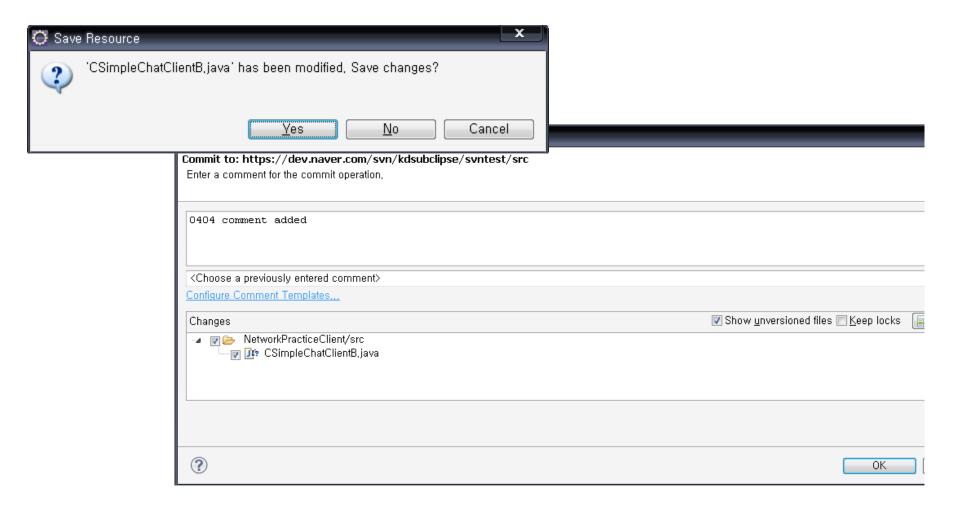
Get files from the repository at initial time

Commit
Update
Check Out

Compare

Compare with last files

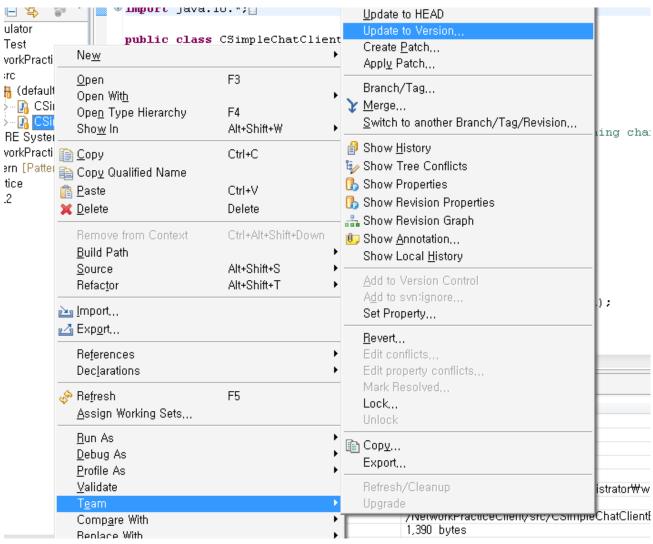


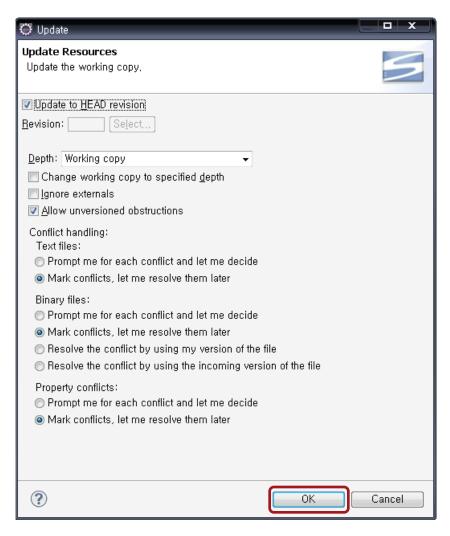


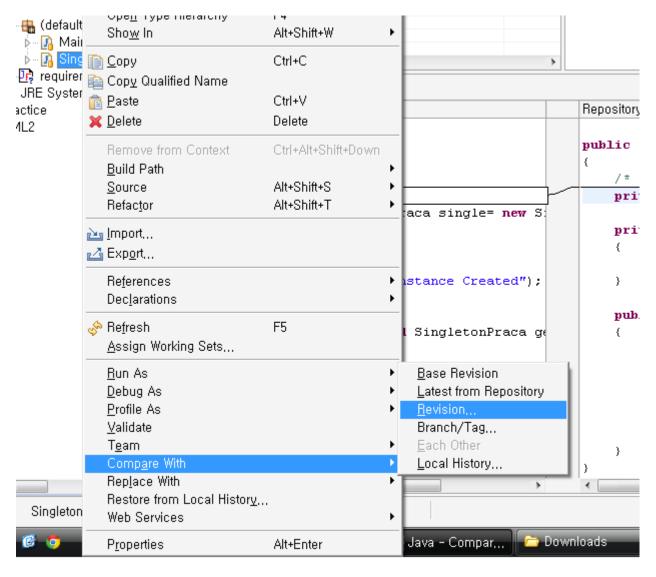
	파일 ^	최종 로그 [에세지 작성자	최종변경일	리비전
Pattern/			serapis_	11 분	5
branches	/	Initial	anonsvn	50 분	1
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trunk/		Initial	anonsvn	50 분	1

리비전 8



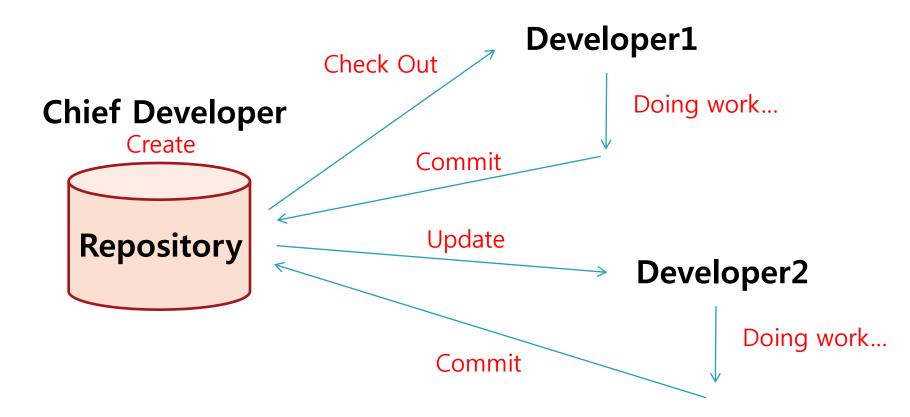






```
🚺 Java Source Compare 🔻
                                                                                       G 4 A A A A A
Workspace file: SingletonPraca, java
                                                       Repository file: SingletonPraca, java
public class SingletonPraca
                                                       public class SingletonPraca
    /* something changed */
                                                           /* something changed */
    /* here change!! */
                                                           private static SingletonPraca single= ne
    private static SingletonPraca single= new Si
                                                           private SingletonPraca()
    private SingletonPraca()
                                                               System.out.println("Instance Created
         System.out.println("Instance Created");
                                                           public static synchronized SingletonPrac
    public static synchronized SingletonPraca ge
                                                                if(single == null)
         if(single == null)
                                                                    single= new SingletonPraca();
             single= new SingletonPraca();
                                                                return single;
         return single;
```

Subclipse applies in project



Benefit of SCM

already corrected bugs are avoided better reputation of company

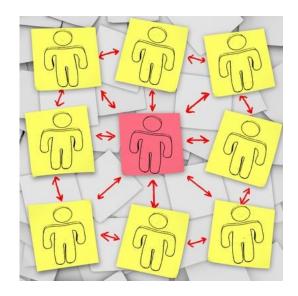
Concurrent development is simplified

RE tool

What is Requirement?

Define the What of a software

What the s/w must do for its stakeholders



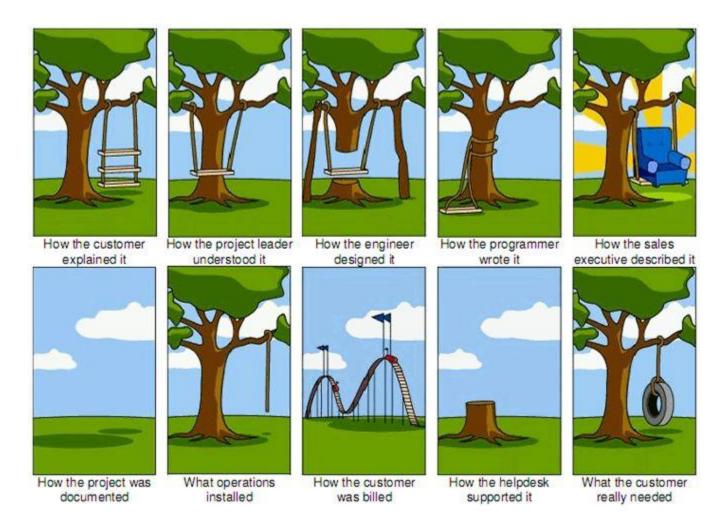
Requirement Engineering

Requirement Engineering is the process of establishing the services that the customer requires from a system

concerned with the real-world goals and constraints on software systems.

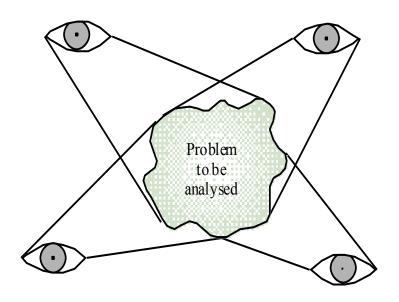
Also concerned with evolution over time

Why we need it?



Why we need it?

Multiple view points Evolution



Feasibility study
Requirements analysis
Requirements definition
Requirements validation

Feasibility study

Requirements analysis

Requirements definition

Requirements validation

Find out if the current user needs be satisfied given the available technology and budget

Feasibility study

Requirements analysis

Requirements definition

Requirements validation

: Find out what system stakeholders require from the system

Feasibility study

Requirements analysis

Requirements definition

Requirements validation

Define the requirements in a form understandable to the customer

Feasibility study

Requirements analysis

Requirements definition

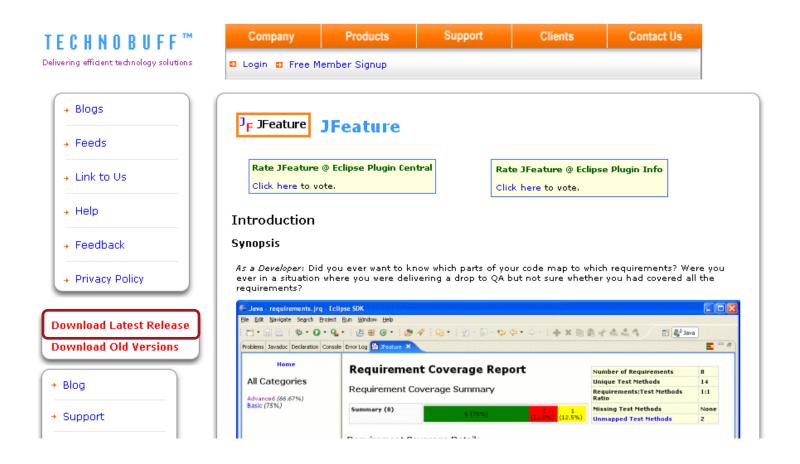
Requirements validation

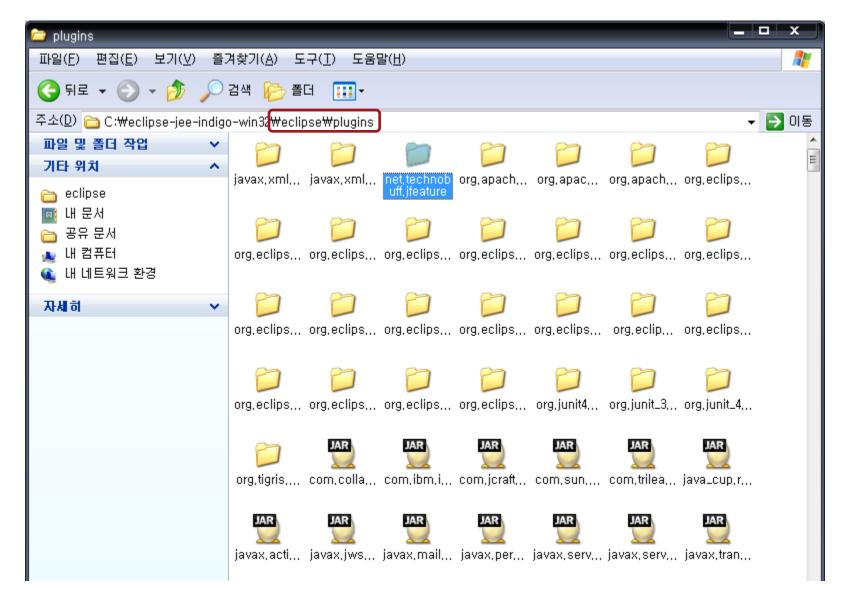
: validate that defined requirements are satisfied user's needs.

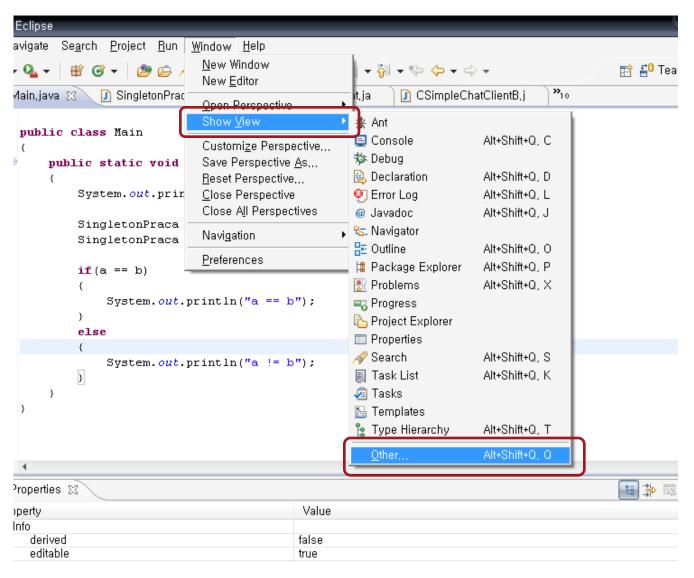
RE tools

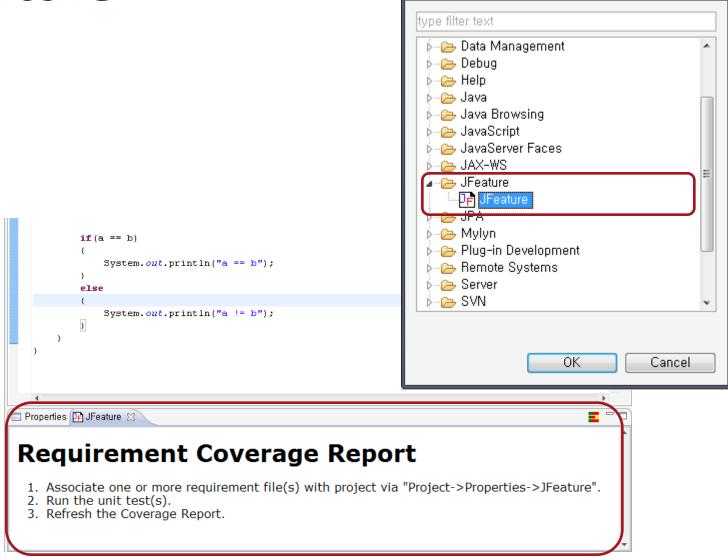
JFeature OSRMT

www.technobuff.net



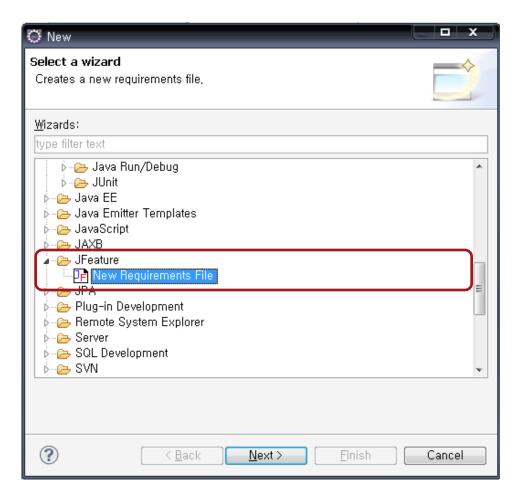


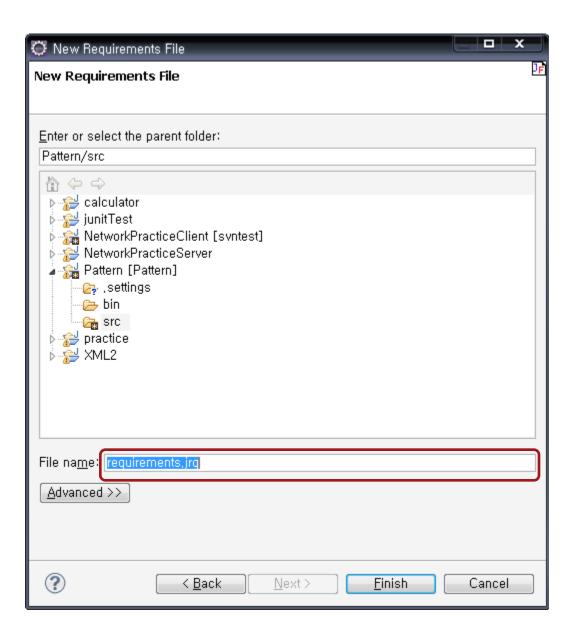


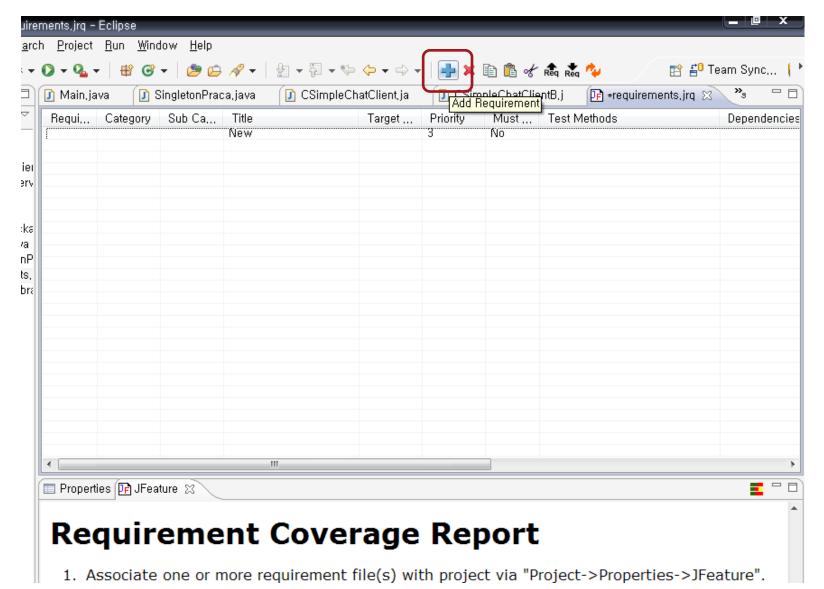


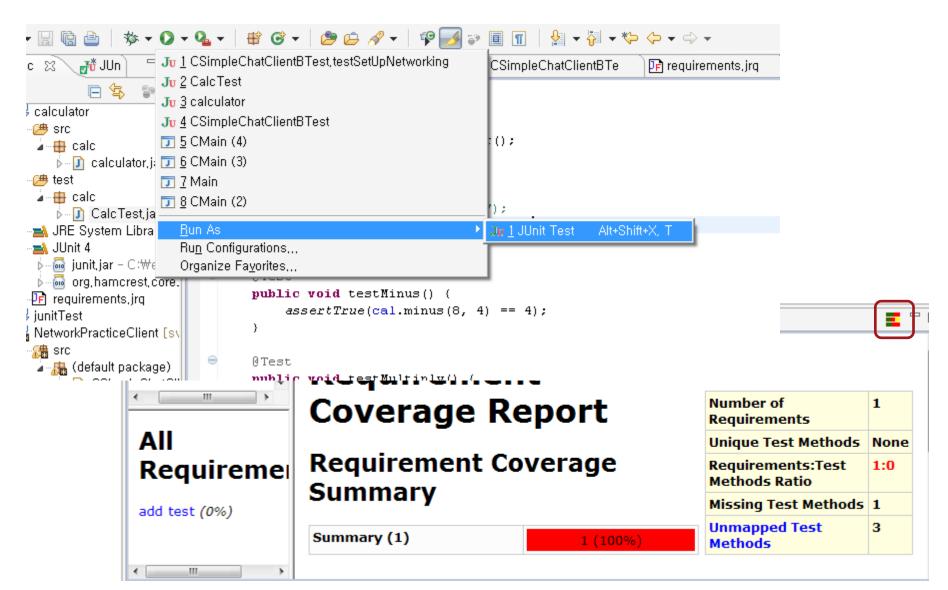
Show View

File -> New -> Other









Benefit of RE

Give whole view of the entire requirements

Able to notice requirement changes

Can check requirements are applied

Easy to track flows of the requirement

Thank you