

# JFeature & OSRMT

Requirement Engineering &  
RETools Execution Examples

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1. Requirements?
2. Reason of Using RE Tools
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2. Installation
3. Usage

## 3. OSRMT

1. Introduce
2. Installation
3. Usage

# Requirement Engineering

1. Requirements?
2. Requirement Engineering
3. RE Process

# Requirements??

## What Should be Requirement?

Range from a high-level abstract statement of service or system constraint to detailed mathematical functional specification.

- 추상화된 표현부터 수학적 식 까지 모든 표현들이 요구 사항이 된다.

## Requirement Completeness & Consistency

Ambiguous Requirement may be interpreted in different ways.

- Complete : 모든 요구 조건들이 문서화 되어야 한다.
- Consistent : 서로 상충되는 요구 조건들이 존재해서는 안 된다.



체계화, 구조화된 RE Tool의 필요성!!!!

# Requirements?? (Cont.)

## User Requirement

**Statements in natural language, diagrams of the services the system provides and its operational constraints.**

- 일상적인 언어 혹은 다이어그램으로 작성된다.
- 시스템이 제공하는 기능들을 기술하게 된다.
- 보통 고객이 작성하게 된다. 정의되는 성격을 가진다.

## System Requirement

**Structured document setting out detailed descriptions of the system`s functions, services and operational constraints.**

- 구조적인 문서로 작성된다.
- 시스템의 기능, 서비스와 제약사항을 기술하게 된다.
- 보통 고객과 개발자가 상의하여 작성한다. 정의되는 성격을 가진다.

# Requirements?? (Cont.)

## Functional Requirement

Statements of services which the system should provide

- 특정 input에 대해 system의 작동에 대한 설명
- 특정 상황에 대한 system의 작동에 대한 설명

## Non-functional Requirement

Constraints on the services or functions offered by the system

- 시간적 제약사항(개발 기간)등도 포함된다.
- 개발 과정에서의 제약사항도 포함된다.
- Product Requirement : 실행 속도, 신뢰성
- Organization Requirement : 표준, 구현 환경
- External Requirement : 인적 제약조건

 NFR이 충족 되어야 System이 의미를 가진다!

## Cons. Of Natural Language Specification

- Ambiguity
  - ✓ 작성자와 개발자 간에 동일한 해석이 이루어 져야 함
  - ✓ 일반적 언어는 여러 의미로 해석 될 가능성이 항상 존재
- Over-flexibility
  - ✓ 같은 내용을 여러 방식으로 Specification 할 수 있음
- Lack of modularisation
  - ✓ 구조화된 시스템과는 달리 언어는 구조화 되어 있지 않음

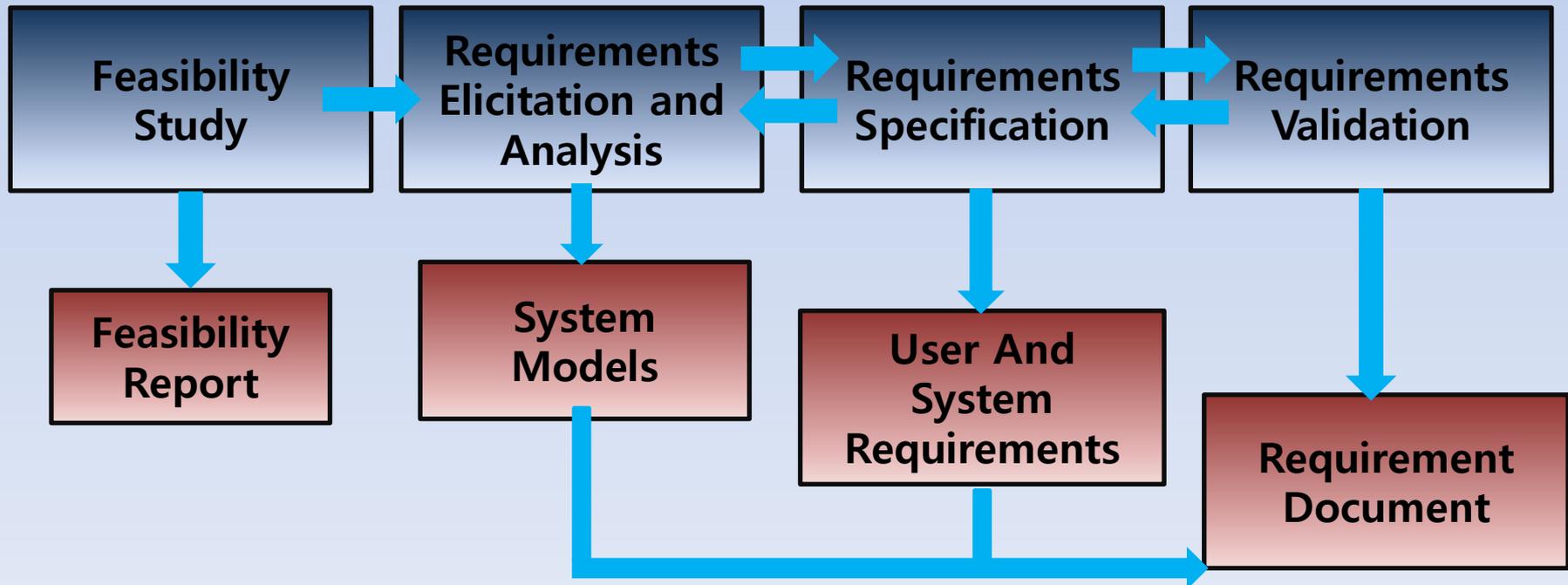
 RE Tool을 활용하여 Specification을 구체화!!

# RE Process

## RE Process

RE Processes vary widely depending on application domain, involved people, organization developing the requirements

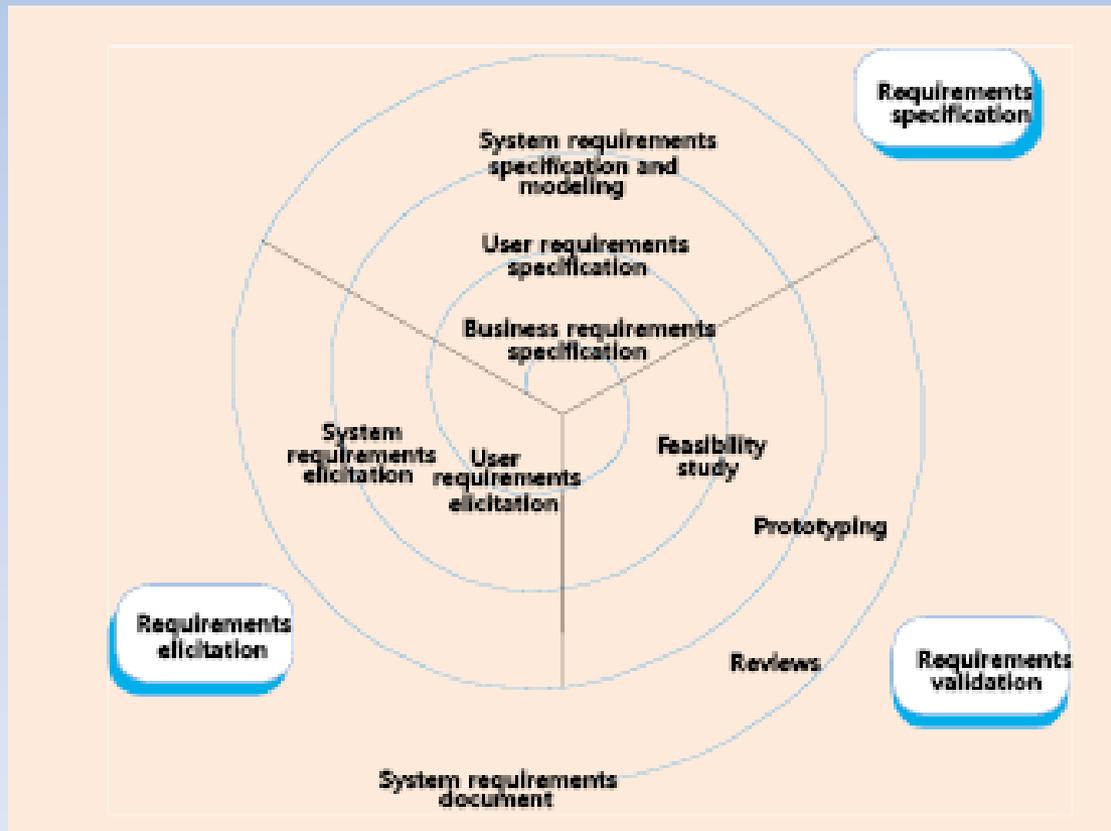
- Generic RE Activities.



# RE Process

## RE Process Diagram

각 과정을 1회만 하는 것이 아니라 System Requirement Document가 나올 때까지 반복적으로 수행한다.



## Feasibility Study

Decides whether or not the propose system is worth to develop

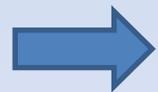
- 프로젝트에 대한 타당성 검토과정
- Feasibility 검토를 위한 질문
  - ✓ System이 개발되지 않는다면??
  - ✓ 지금의 문제점은 무엇인지?
  - ✓ System이 고객의 Requirement를 어떻게 만족 시킬 것인가?
  - ✓ System 통합에서의 문제점은 어떤 것인가?
  - ✓ 어떤 Skill과 Technology가 요구되는가

## Requirement Discovery

- Stakeholder Identification
  - ✓ System과 연관된 사람들을 파악
  - ✓ 직접 혹은 간접 적으로 연관된 모든 사람을 포함
- Stakeholder Interviews
  - ✓ Closed Interview : 미리 준비된 질문들로 인터뷰를 진행
  - ✓ Open Interview : 미리 준비된 계획이나 범위 없이 인터뷰를 진행

## Requirement Discovery Problems

- Stakeholder(SH)들이 자신의 요구를 정확히 알지 못한다.
- SH들이 자신의 Requirement를 자신의 방식대로 표현한다.
- 다른 SH들이 상충되는 Requirement를 제시할 수 있다.
- 정치적인 요구 혹은 환경적인 요소들이 System Requirement에 영향을 끼칠 수 있다.
- Analysis process 동안 Requirement가 바뀔 수 있다.



수집된 Requirement를 걸러낼 필요가 있다!!

## Requirement Elicitation

**cross-functional implications can be elicited by conducting JRD sessions in a controlled environment, facilitated by a trained facilitator, wherein stakeholders participate in discussions to elicit requirements, analyze their details and uncover cross-functional implications.**

- JRD(Joint Requirement Development)Sessions
  - ✓ 회의를 통해 Cross-functional Requirement를 제거
- Requirement Presentation Schemes
  - ✓ Contract-style list : Check-List of Requirements
  - ✓ User Story : Requirement 를 informal한 표현으로 작성
  - ✓ Use case : UML에서의 Scenario Based Technique
  - ✓ Sequence Diagram : System processing 기반 Diagram

## Requirement Validation

**Demonstrate whether the requirements we defined are what the customer really wants. Requirements error costs are high, so validation is very important.**

- Validation Checks
  - ✓ Validity : System이 고객이 요구한 기능들을 제공하는가
  - ✓ Consistency : 상충되는 Requirement가 있는가
  - ✓ Completeness : 고객이 요구한 모든 기능들이 포함 되었는가
  - ✓ Realism : 가용범위 내의 기술과 비용으로 구현 가능한가
  - ✓ Verifiability : 검증이 가능한 Requirement 인가
- Validation Techniques
  - ✓ Requirement Reviews
  - ✓ Prototyping
  - ✓ Test-case generation

## Requirement Management

The process of managing requirement change during the RE process and system development



# JFeature

1. Introduce
2. Installation
3. Usage

# JFeature

- When Developer need to use JFeature?
  - Requirements을 추출하였지만 정해진 문서 형식이 없어 제대로 정리 되어있지 않다
  - All requirements 을 정확히 파악하기 힘들다.
  - 수정 된 Requirements와 수정 전 Requirements의 구분이 힘들다.
  - 변경되는 Requirements에 대하여 추적성이 표현되어 있지 않아 요구 사항의 흐름을 파악하기 힘들다.
  - Requirements의 내용을 일관되게 수정하게 어렵다.
  - Testcase 와 연동이 필요하다.
  - Coverage형태로 요구사항의 비교적 정확한 반영율을 알고싶다.
  - CVS,XML과 같은 다른 형태의 requirements를 쉽게 가져오고 싶다.

# JFeature

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- Simplify make documents
  - Requirements를 기록, 보존.
  - Requirements의 수정사항이 생겼을 때, 즉시 View를 제공하므로 빠른 편집이 가능
  - Requirements 편집하는 확장 인터페이스
- Round trip engineering
  - CSV 파일의 requirements와 동기화 가능
  - XML 파일의 requirements와 동기화 가능

# JFeature

- 개발된 Test code와 Requirements를 매칭시킨다
  - 요구사항이 반영여부를 Coverage형태로 쉽게 확인 가능
  - Junit과 연동하여 requirements coverage 대한 Additional reporting format을 제공
  - TestMethod editor를 통해서 requirements에 맞는 TestMethod를 정의
  - 프로세스를 단순화 시킨다
- JFeature는JUnit TestCase 외 다른 Plug-in들과는 연동이 불가.
- CPL(Common Public License) 무료 라이선스

# Jfeature installation

- <http://www.technobuff.net/webapp/product/showProduct.do?name=jfeature> 에 접속후 다운로드

The screenshot shows the JFeature website in a browser window. The website has a navigation menu with 'Company', 'Products', 'Support', 'Clients', and 'Contact Us'. A sidebar on the left contains links for 'Blogs', 'Feeds', 'Link to Us', 'Help', 'Feedback', and 'Privacy Policy'. A red box highlights the 'Download Latest Release' button. Below the navigation menu, there are two 'Rate JFeature @ Eclipse Plugin' buttons. The main content area features an 'Introduction' and 'Synopsis' section. The synopsis describes the tool's purpose for developers. Below the text, there is a screenshot of the Eclipse IDE showing the 'Requirement Coverage Report' for a Java project named 'requirements.jrq'. The report includes a summary table and a detailed table of requirements.

**Download Latest Release**

**Download Old Versions**

## Introduction

### Synopsis

As a Developer: Did you ever want to know which parts of your code map to which requirements? Were you ever in a situation where you were delivering a drop to QA but not sure whether you had covered all the requirements?

#### Requirement Coverage Report

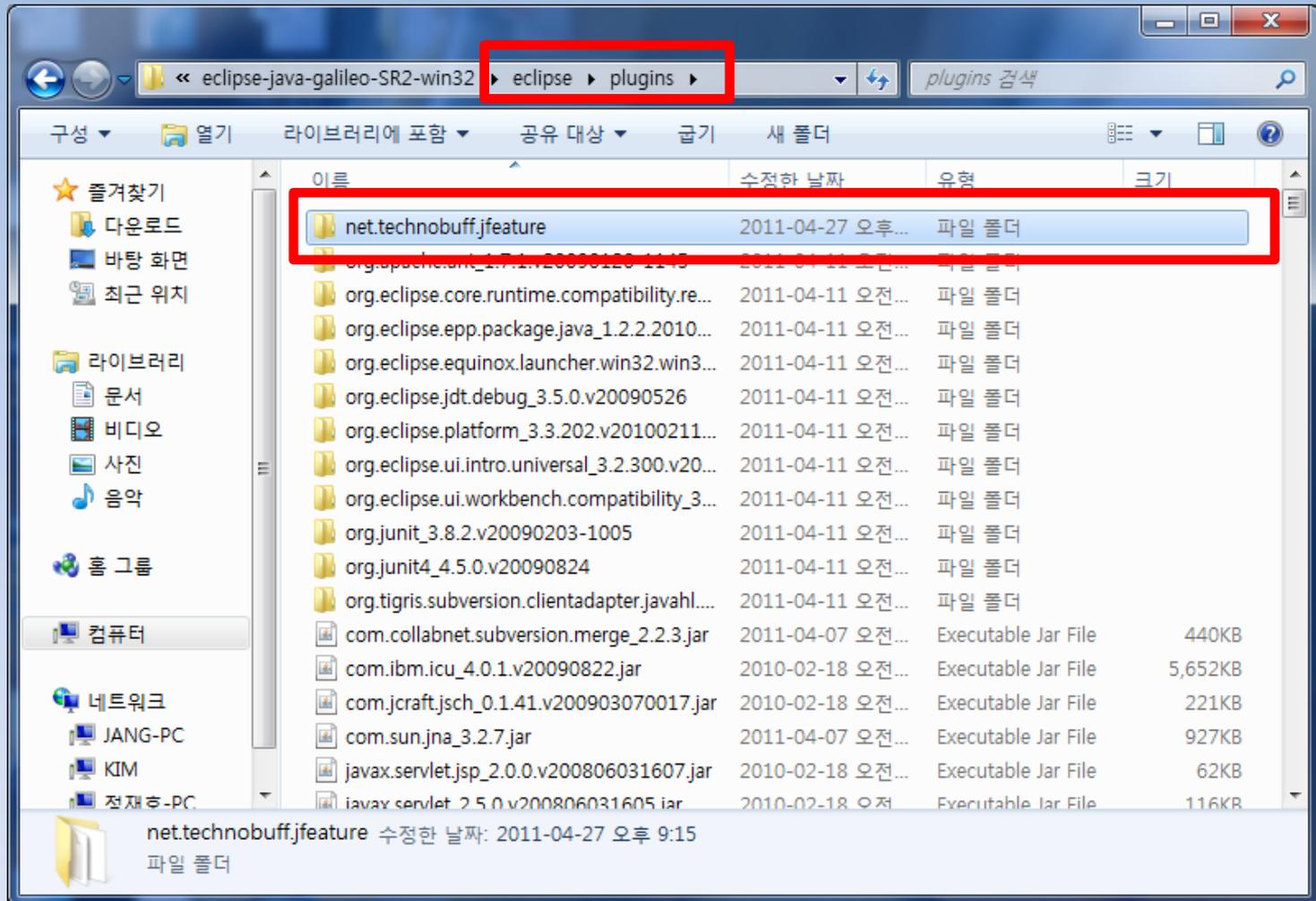
Requirement Coverage Summary

Category	Count	Coverage
Advanced	3	100.0%
Basic	4	12.5%
<b>Summary (8)</b>	<b>7</b>	<b>12.5%</b>

Requirement Coverage Details

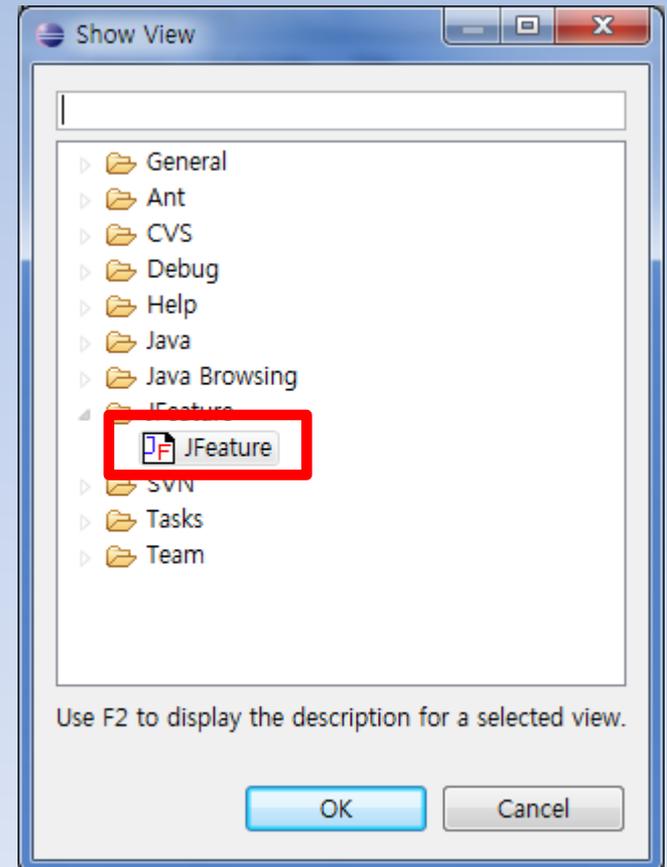
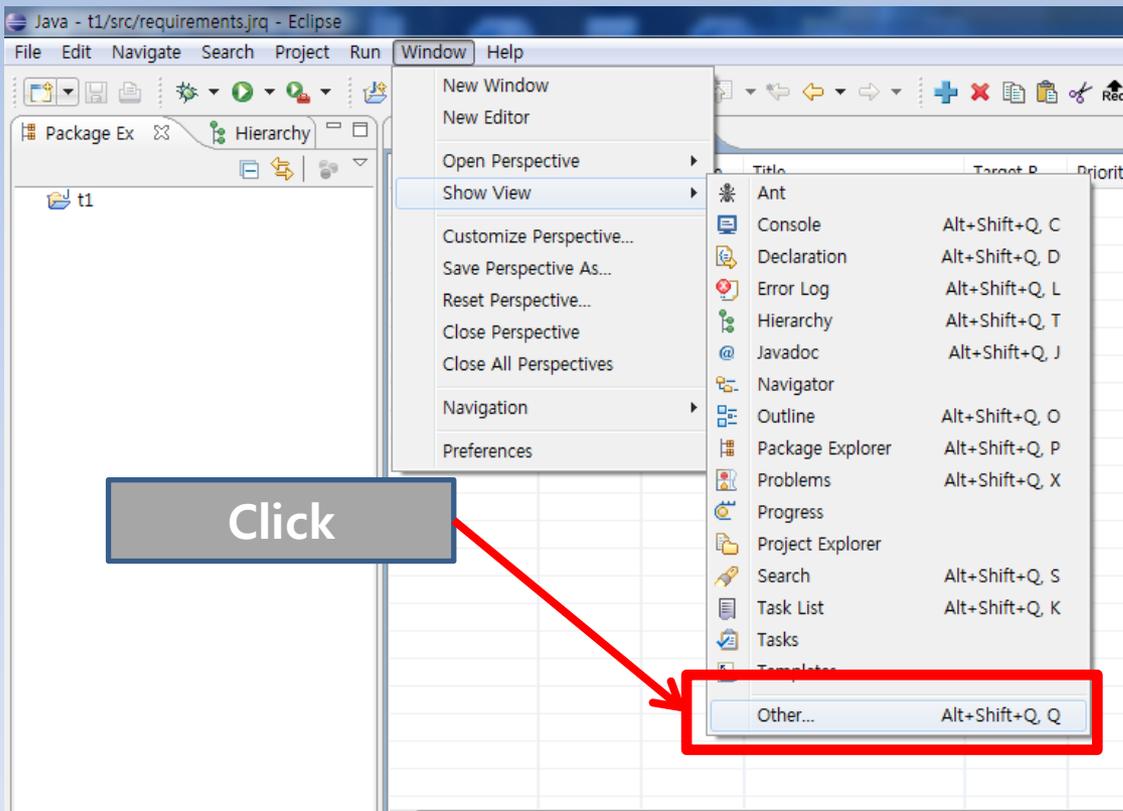
Sr#	Category	Coverage
1.	Advanced (3)	1 (33.33%)
2.	Basic (4)	1 (25%)

# Jfeature installation



# JFeature installation

- Eclipse 실행후 Jfeature Window 활성화



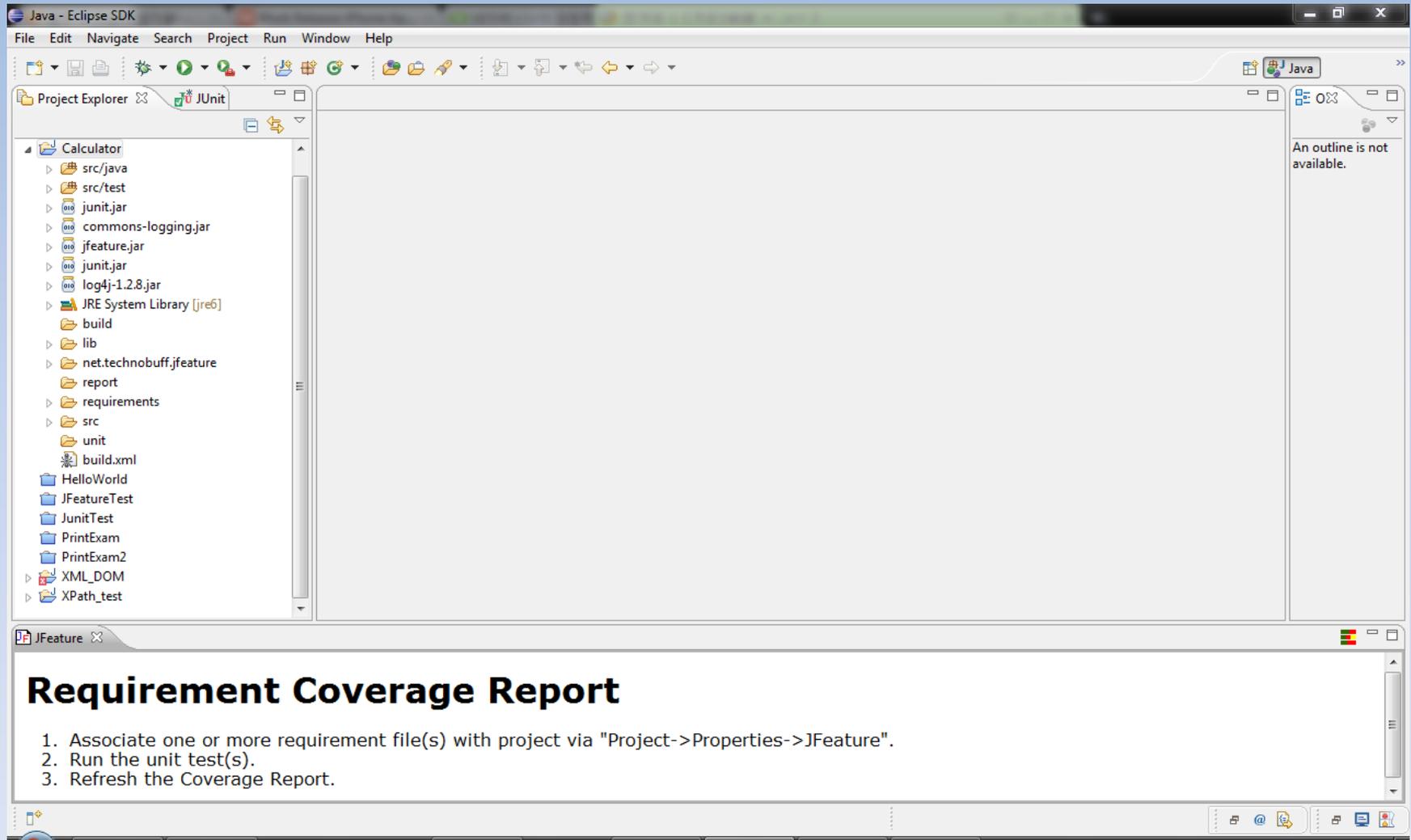
# JFeature installation

The screenshot shows the Eclipse IDE interface. The main editor displays a table with the following columns: Requirement ID, Category, Sub Cate..., Title, Target R..., Priority, Must ..., and Test Methods. The table is currently empty. The left sidebar shows a package explorer with a package named 't1'. The right sidebar contains a 'Task List' view with a search bar and a list of tasks, including 'Uncategorized', 'Connect Mylyn', and 'Outline'. The bottom of the IDE shows a 'Problems' view with a red border around it, containing the following text:

## Requirement Coverage Report

1. Associate one or more requirement file(s) with project via "Project->Properties->JFeature".
2. Run the unit test(s).
3. Refresh the Coverage Report.

# JFeature Usage



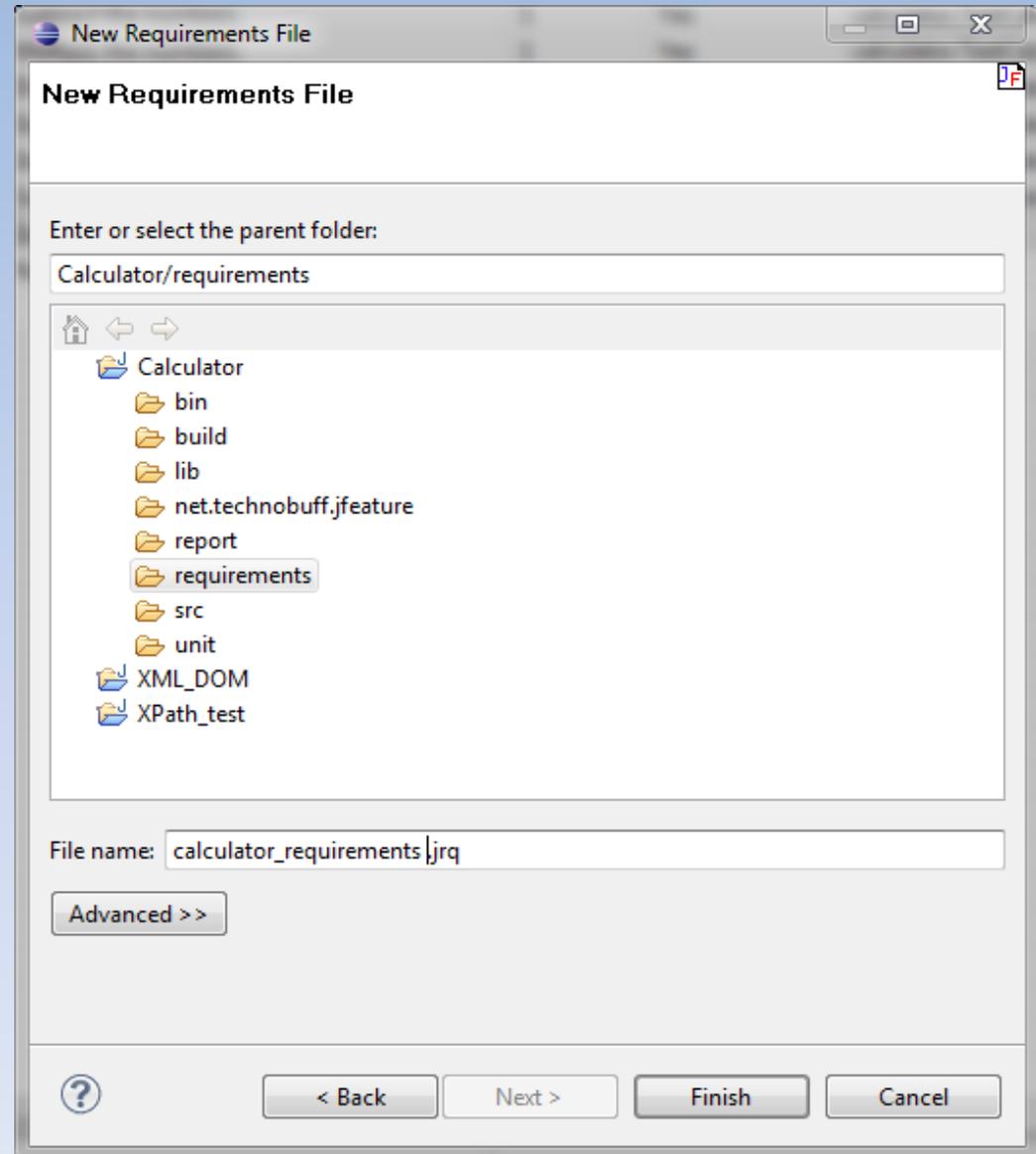
The screenshot shows the Eclipse IDE interface. The Project Explorer on the left displays a project named 'Calculator' with various sub-projects and files, including 'src/java', 'src/test', 'junit.jar', 'commons-logging.jar', 'jfeature.jar', 'log4j-1.2.8.jar', 'JRE System Library [jre6]', 'build', 'lib', 'net.technobuff.jfeature', 'report', 'requirements', 'src', 'unit', 'build.xml', 'HelloWorld', 'JFeatureTest', 'JUnitTest', 'PrintExam', 'PrintExam2', 'XML\_DOM', and 'XPath\_test'. The main editor area is empty, and the right-hand side shows a message: 'An outline is not available.' The bottom of the screen displays a 'Requirement Coverage Report' for 'JFeature' with the following instructions:

## Requirement Coverage Report

1. Associate one or more requirement file(s) with project via "Project->Properties->JFeature".
2. Run the unit test(s).
3. Refresh the Coverage Report.

# JFeature Usage

- 신규 Requirements 작성
- File Menu – New - Others



# JFeature Usage

The screenshot shows the Eclipse IDE interface. The Project Explorer on the left displays a project structure for 'Calculator' with sub-projects 'src/java' and 'src/test'. The main editor area shows a table of requirements. A red box highlights the '+' icon in the toolbar, with a red arrow pointing to a callout box that says 'Click to add new requirement'.

Requir...	Category	Sub Cate...	Title	Target Release	Priority	Must Have	
1.1.1	Basic	Add	Add the numbers.		1	Yes	
1.2.1	Basic	Subtract	Subtract the numbers.		1	Yes	
1.3.1	Basic	Multiply	Multiply the numbers.		1	Yes	
1.4.1	Basic	Divide	Divide the numbers.		1	Yes	
2.1.1	Advanced	Round	Generate ceiling value o...		3	No	calculator.TestCalculator.testCeil...
2.2.1	Advanced	Round	Generate floor value of ...		3	No	calculator.TestCalculator.testFlo...
2.3.1	Advanced	Absolute	Generate absolute value...		3	No	calculator.TestCalculator.testAbs...
2.4.1	Advanced	Log	Generate log of number.		3	No	

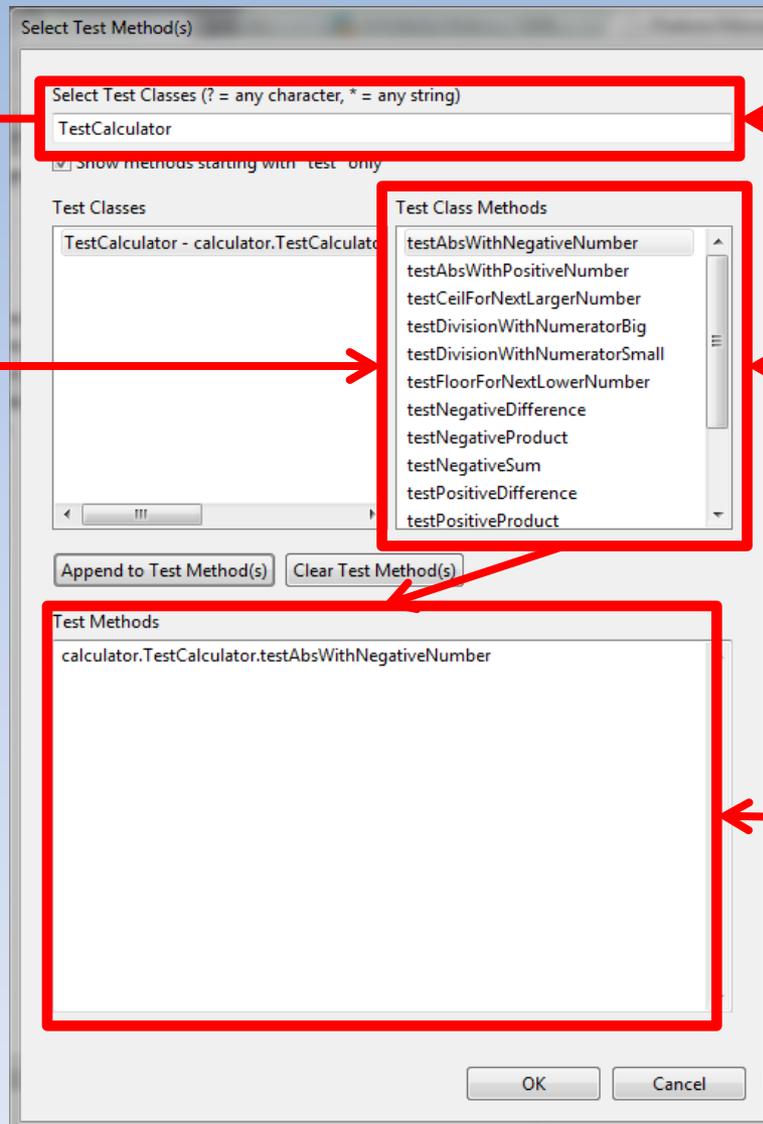
# JFeature Usage

The screenshot shows the Eclipse IDE interface with the following components:

- Project Explorer:** Shows the project structure for 'Calculator', including 'src/java', 'src/test', and various dependency jars like 'junit.jar' and 'commons-logging.jar'.
- Table:** A table titled '\*calculator\_requirements.jrq' with columns: Requir..., Category, Sub Cate..., Title, Target Release, Priority, Must Have, Test Methods, and Depend. The table contains several rows of requirements, with the last row highlighted in red.
- Text Box:** A grey box with the Korean text '새 항목이 추가됨' (New item added) is positioned below the table, with a red arrow pointing to the highlighted row.

Requir...	Category	Sub Cate...	Title	Target Release	Priority	Must Have	Test Methods	Depend
1.1.1	Basic	Add	Add the numbers.		1	Yes	calculator.TestCalculator.testNeg...	
1.2.1	Basic	Subtract	Subtract the numbers.		1	Yes	calculator.TestCalculator.testNeg...	
1.3.1	Basic	Multiply	Multiply the numbers.		1	Yes	calculator.TestCalculator.testNeg...	
1.4.1	Basic	Divide	Divide the numbers.		1	Yes	calculator.TestCalculator.testDivi...	
2.1.1	Advanced	Round	Generate ceiling value o...		3	No	calculator.TestCalculator.testCeil...	
2.2.1	Advanced	Round	Generate floor value of ...		3	No	calculator.TestCalculator.testFlo...	
2.3.1	Advanced	Absolute	Generate absolute value...		3	No	calculator.TestCalculator.testAbs...	
2.4.1	Advanced	Log	Generate log of number...		3	No		
	Exam	Exam1	New Requirement		3	No		

# JFeature Usage

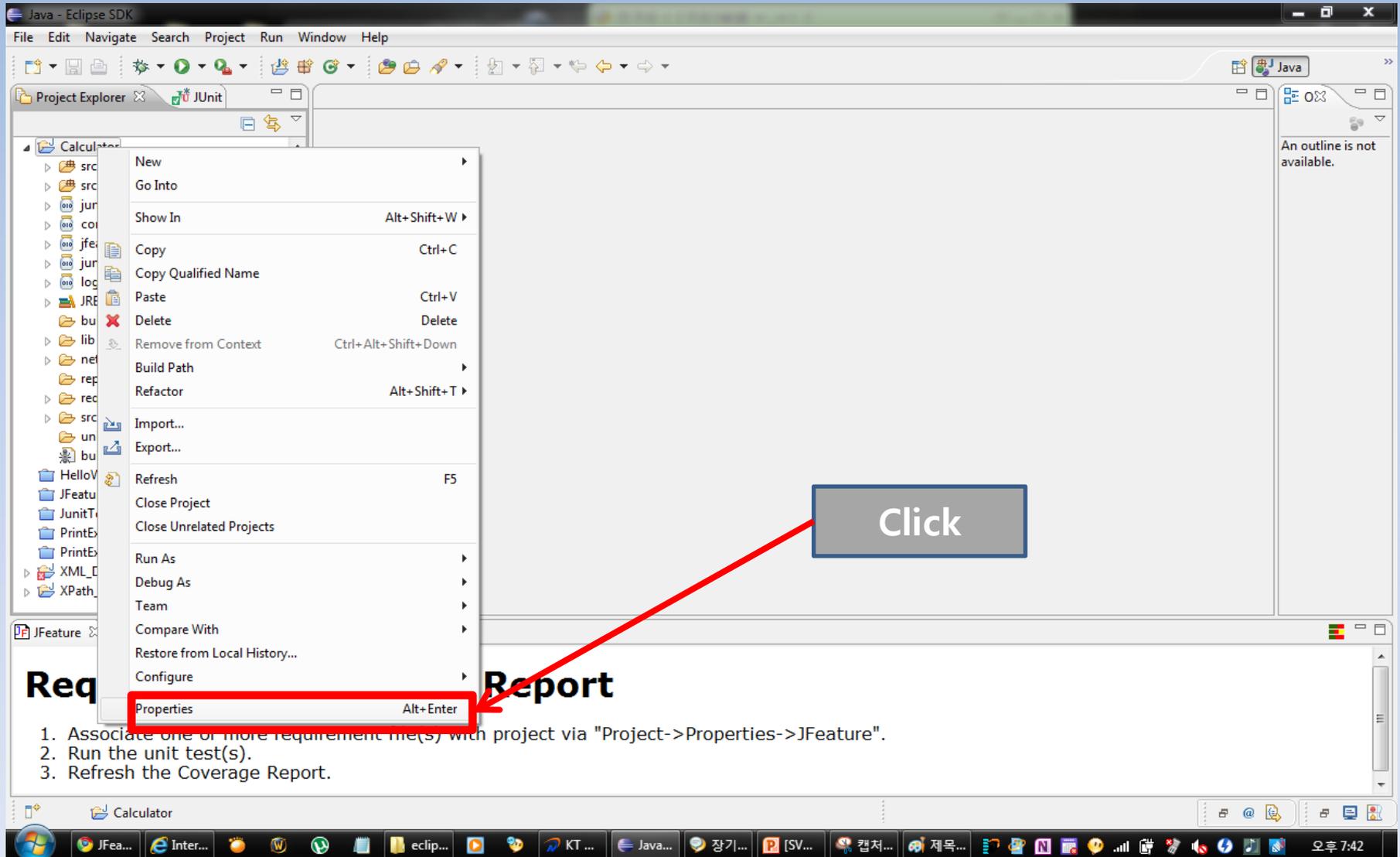


Input test class name

Automatically show  
test class Methods

Add Test Methods  
to the list

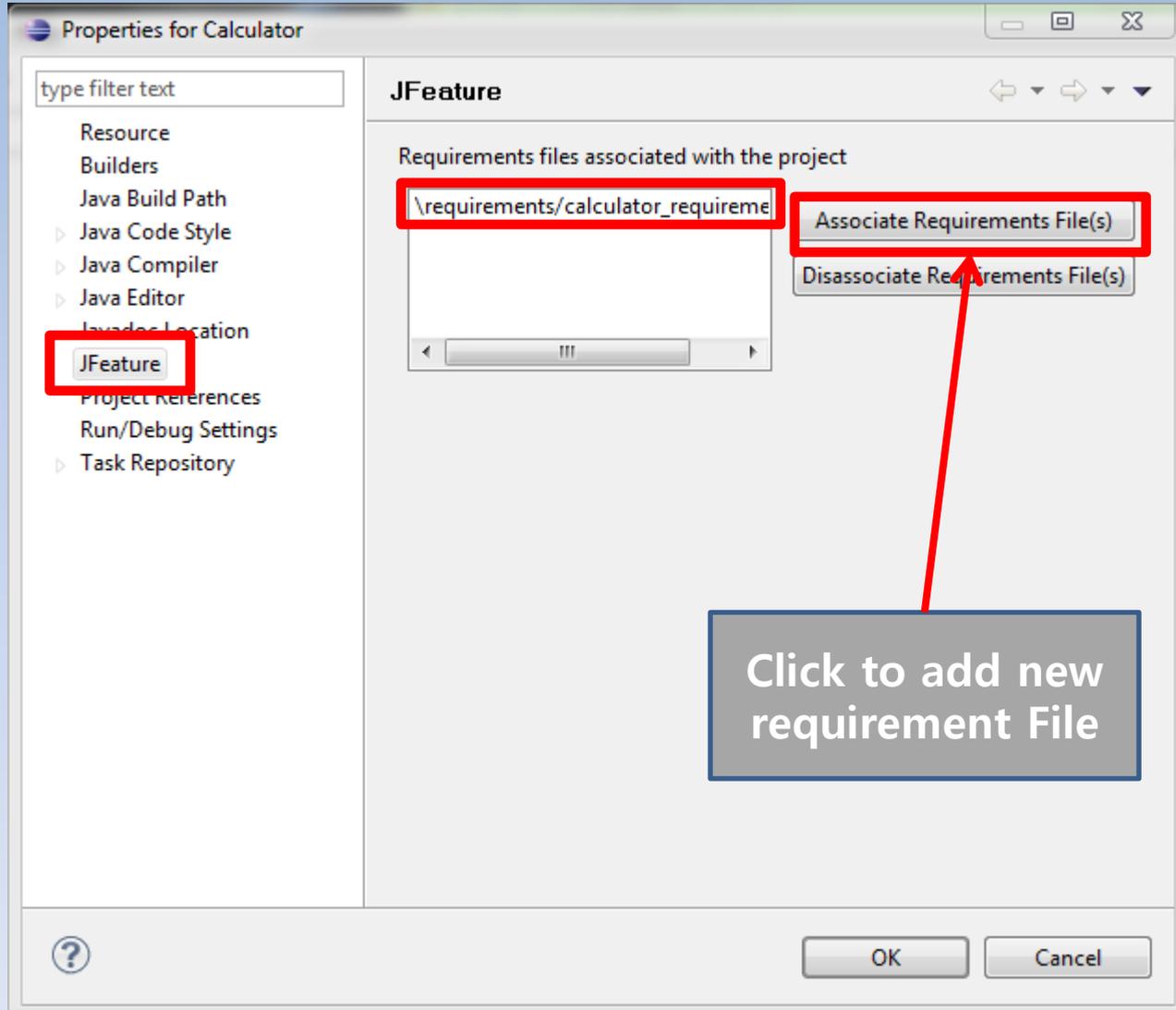
# JFeature Usage



The screenshot shows the Eclipse IDE interface. The Project Explorer on the left displays a project structure with folders like 'src', 'lib', and 'un'. A context menu is open over the project, listing various actions. The 'Properties' option at the bottom of the menu is highlighted with a red rectangular box. A red arrow originates from this box and points to a grey button labeled 'Click' in the center of the IDE workspace. Below the IDE window, a list of instructions is visible:

1. Associate one or more requirement file(s) with project via "Project->Properties->JFeature".
2. Run the unit test(s).
3. Refresh the Coverage Report.

# JFeature Usage



# JFeature Usage

The screenshot shows the Eclipse IDE interface. The Project Explorer on the left displays the project structure for 'Calculator', including source folders and various JAR files. The main editor area shows the 'calculator\_requirements.jrq' file being executed by JUnit. The test results are displayed in a table, which is highlighted with a red border. The table contains the following data:

Requir...	Category	Sub Cate...	Title	Target Release	Priority	Must Have	Test Methods	Depend
1.1.1	Basic	Add	Add the numbers.		1	Yes	calculator.TestCalculator.testNeg...	
1.2.1	Basic	Subtract	Subtract the numbers.		1	Yes	calculator.TestCalculator.testNeg...	
1.3.1	Basic	Multiply	Multiply the numbers.		1	Yes	calculator.TestCalculator.testNeg...	
1.4.1	Basic	Divide	Divide the numbers.		1	Yes	calculator.TestCalculator.testDivi...	
2.1.1	Advanced	Round	Generate ceiling value o...		3	No	calculator.TestCalculator.testCeil...	
2.2.1	Advanced	Round	Generate floor value of ...		3	No	calculator.TestCalculator.testFlo...	
2.3.1	Advanced	Absolute	Generate absolute value...		3	No	calculator.TestCalculator.testAbs...	
2.4.1	Advanced	Log	Generate log of number.		3	No		

# JFeature Usage

Calculator\_requirements.jrq

Category	Sub Cate...	Title	Target Release	Priority	Must Have	Test Methods	Depend
Basic	Add	Add the numbers.		1	Yes	calculator.TestCalculator.testNeg...	
Basic	Subtract	Subtract the numbers.		1	Yes	calculator.TestCalculator.testNeg...	
			2.3.1	Advanced	Absolute	Generate absolute value...	
			2.4.1	Advanced	Log	Generate log of number.	

Run As

- 1 Java Applet Alt+Shift+X, A
- 2 Java Application Alt+Shift+X, J
- 3 JUnit Test Alt+Shift+X, T

## Requirement Coverage Report

1. Associate one or more requirement file(s) with project via "Project->Properties->JFeature".
2. Run the unit test(s).
3. Refresh the Coverage Report.

Calculator

오후 7:43

# JFeature Usage

- Unit Testing 결과 및 Requirement Coverage Report 생성

The screenshot displays the Eclipse IDE interface. The top part shows the 'JUnit' view with a red box highlighting the test results for 'calculator.TestCalculator'. The results indicate that the test finished after 0.053 seconds, with 14/14 runs, 0 errors, and 0 failures. Below this, a 'Failure Trace' view is visible but empty.

The main editor area shows a table of requirements with the following data:

Requir...	Category	Sub Cate...	Title	Target Release	Priority	Must Have	Test Methods	Depend
1.1.1	Basic	Add	Add the numbers.		1	Yes	calculator.TestCalculator.testNeg...	
1.2.1	Basic	Subtract	Subtract the numbers.		1	Yes	calculator.TestCalculator.testNeg...	
1.3.1	Basic	Multiply	Multiply the numbers.		1	Yes	calculator.TestCalculator.testNeg...	
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2.1.1	Advanced	Round	Generate ceiling value o...		3	No	calculator.TestCalculator.testCeil...	
2.2.1	Advanced	Round	Generate floor value of ...		3	No	calculator.TestCalculator.testFlo...	
2.3.1	Advanced	Absolute	Generate absolute value...		3	No	calculator.TestCalculator.testAbs...	
2.4.1	Advanced	Log	Generate log of number.		3	No		

The bottom part of the screenshot shows the 'JFeature' view with a red box highlighting the 'Requirement Coverage Report' icon. The report content includes the following instructions:

## Requirement Coverage Report

1. Associate one or more requirement file(s) with project via "Project->Properties->JFeature".
2. Run the unit test(s).
3. Refresh the Coverage Report.

# JFeature Usage

The screenshot displays the Eclipse IDE interface with the JFeature tool. The top editor shows a table of requirements. The bottom-left pane shows 'All Requirements' with a list of requirements and their coverage percentages. The bottom-right pane shows a 'Requirement Coverage Report' with a summary and details.

Requir...	Category	Sub Cate...	Title	Target Release	Priority	Must Have	Test Methods	Depend
1.1.1	Basic	Add	Add the numbers.		1	Yes	calculator.TestCalculator.testNeg...	
1.2.1	Basic	Subtract	Subtract the numbers.		1	Yes	calculator.TestCalculator.testNeg...	
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2.2.1	Advanced	Round	Generate floor value of ...		3	No	calculator.TestCalculator.testFloo...	
2.3.1	Advanced	Absolute	Generate absolute value...		3	No	calculator.TestCalculator.testAbs...	
2.4.1	Advanced	Log	Generate log of number.		3	No		

**All Requirements**

- Add the numbers. (100%)
- Subtract the num... (100%)
- Multiply the num... (100%)
- Divide the numbe... (100%)
- Generate ceiling... (100%)
- Generate floor v... (100%)
- Generate absolut... (100%)
- Generate log of ... (0%)

## Requirement Coverage Report

### Requirement Coverage Summary

Summary (8)	7 (87.5%)	1 (12.5%)
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Number of Requirements	8
Unique Test Methods	14
Requirements:Test Methods Ratio	1:1
Missing Test Methods	None
Unmapped Test Methods	None

### Requirement Coverage Details

Sr#	Category	Coverage
1.	Advanced (3)	2 (66.67%) 1 (33.33%)
2.	Basic (4)	4 (100%)

# OSRMT

1. Introduce
2. Installation
3. Usage

# OSRMT

- When Developer need to use OSRMT?
  - Requirements을 추출하였지만 정해진 문서 형식이 없어 제대로 정리 되어있지 않다
  - All requirements 을 정확히 파악하기 힘들다.
  - 수정 된 Requirements와 수정 전 Requirements의 구분이 힘들다.
  - 변경되는 Requirements에 대하여 추적성이 표현되어 있지 않아 요구 사항의 흐름을 파악하기 힘들다.
  - Requirements의 내용을 일관되게 수정하게 어렵다.
  - 고객의 Requirements의 변형 요청이 잦다
  - 다른 개발자와 협력하여 개발 해야한다.

## OSRMT

### (Open Source Requirements Management Tool)

- Designed for Requirements Management & Tracing
  - ✓ Requirements을 SDLC 별로 쉽게 구분하여 정리할 수 있습니다
  - ✓ 요구사항을 Feature/Requirement/Design/Implementation/TestCase 로 구분하여 기술할 수 있습니다
  - ✓ 정의된 Requirements들 간의 의존성을 설정하여 추적 관리할 수 있다.
  - ✓ Requirements가 변경된 경우, 어떤 Requirements에 영향을 미치는지 여부를 그림으로 확인할 수 있습니다.
  - ✓ Requirements에 대한 내용을 HTML, PDF 파일로 출력하여 확인.

# OSRMT

- Need to Pre-installed Programs.
  - ✓ JRE
  - ✓ JDK
  - ✓ Database Programs
    - ❖ MS Access / MS SQL Server / MySQL / Oracle Express / PostgreSQL
- Server/Client System
  - ✓ 다수의 개발자간, 혹은 개발자와 의뢰자의 의견교환을 빠르고 정확하게 할 수 있다
  - ✓ WEB을 통해 데이터베이스의 내용에 접근할 수 있다.
- 무료 라이선스 툴

# OSRMT Installation

The screenshot shows the SourceForge project page for OSRMT. At the top, there is a navigation bar with the SourceForge logo and a search box. Below this is a navigation menu with tabs for Summary, Files, Reviews, Support, Develop, Tracker, Forums, and Code. The main content area features a description of the tool, project metadata, and a download button. A red box highlights the download button, and a grey callout box with a red arrow points to it, containing the text "Click this box to download".

http://sourceforge.net/projects/osrmt/

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Open Source Requirements Management Tool by aron-smith, ideastub, jonrw, paulsp

Summary Files Reviews Support Develop Tracker Forums Code

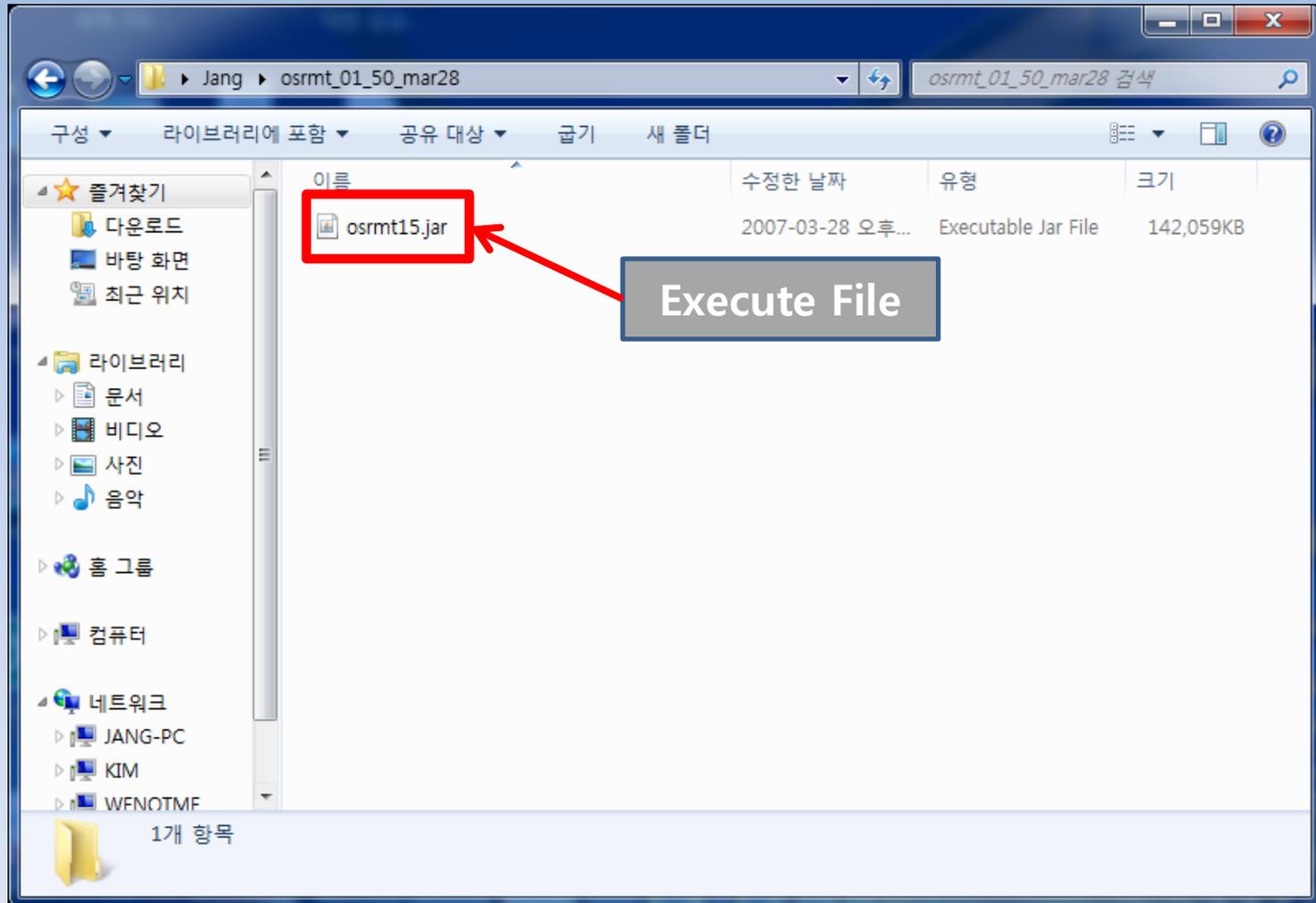
Requirements management tool designed to achieve full SDLC traceability for features, requirements, design, implementation and testing. UI for requirements derivation, version control, attributes etc. Also see <https://sourceforge.net/projects/nimble>

Project Home <a href="http://osrmt.sf.net">osrmt.sf.net</a>	Recommended by 39 users	 Download osrmt_01_50_mar...zip
Develop <a href="http://sf.net/projects/osrmt/develop">sf.net/projects/osrmt/develop</a>	Last Update 2011-03-24	Other Versions <a href="#">Browse all files</a>
Support <a href="http://sf.net/projects/osrmt/forums/forum/...">sf.net/projects/osrmt/forums/forum/...</a>	License GNU General Public License (GPL)	More Detail <a href="#">Show</a>

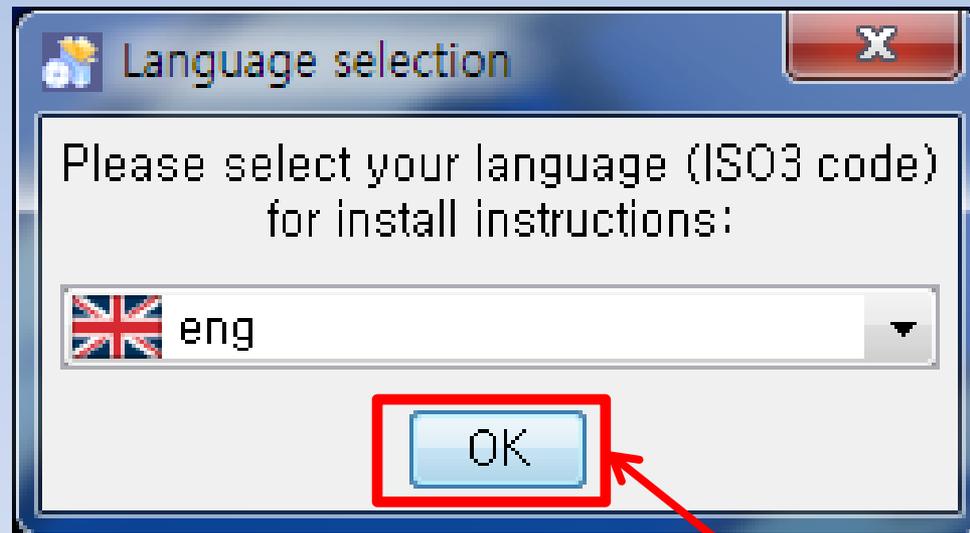
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# OSRMT Installation

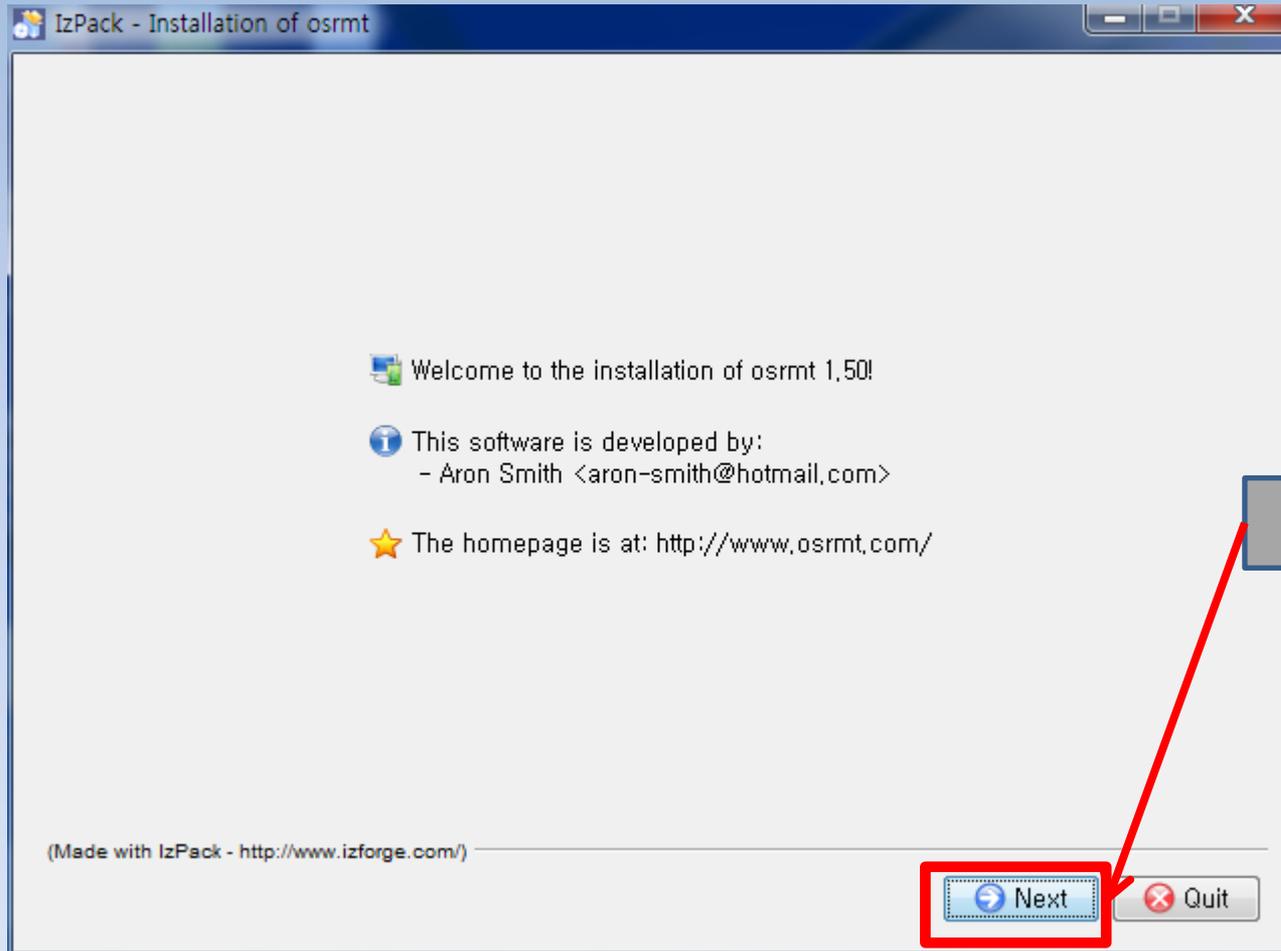


# OSRMT Installation

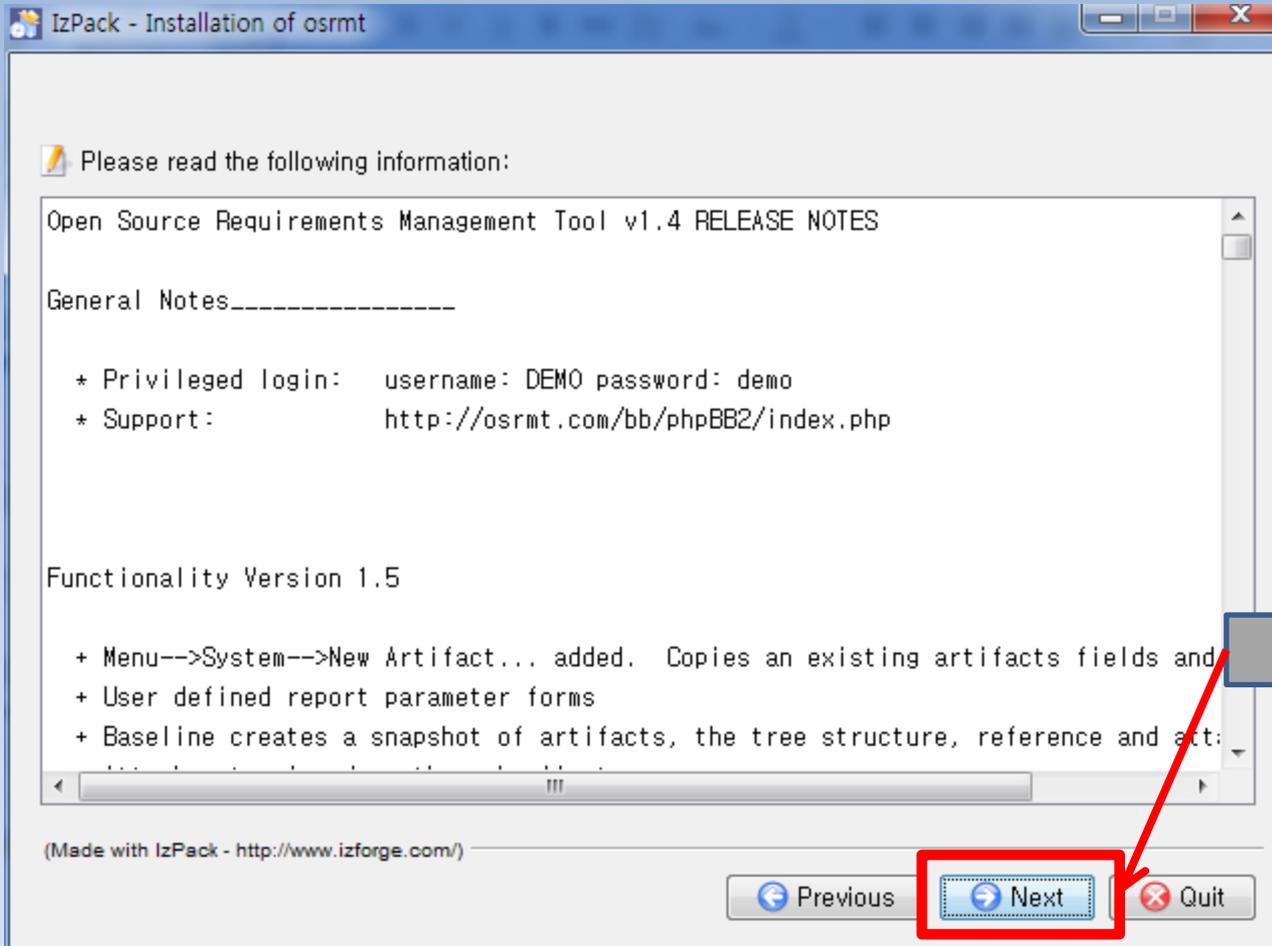


Click

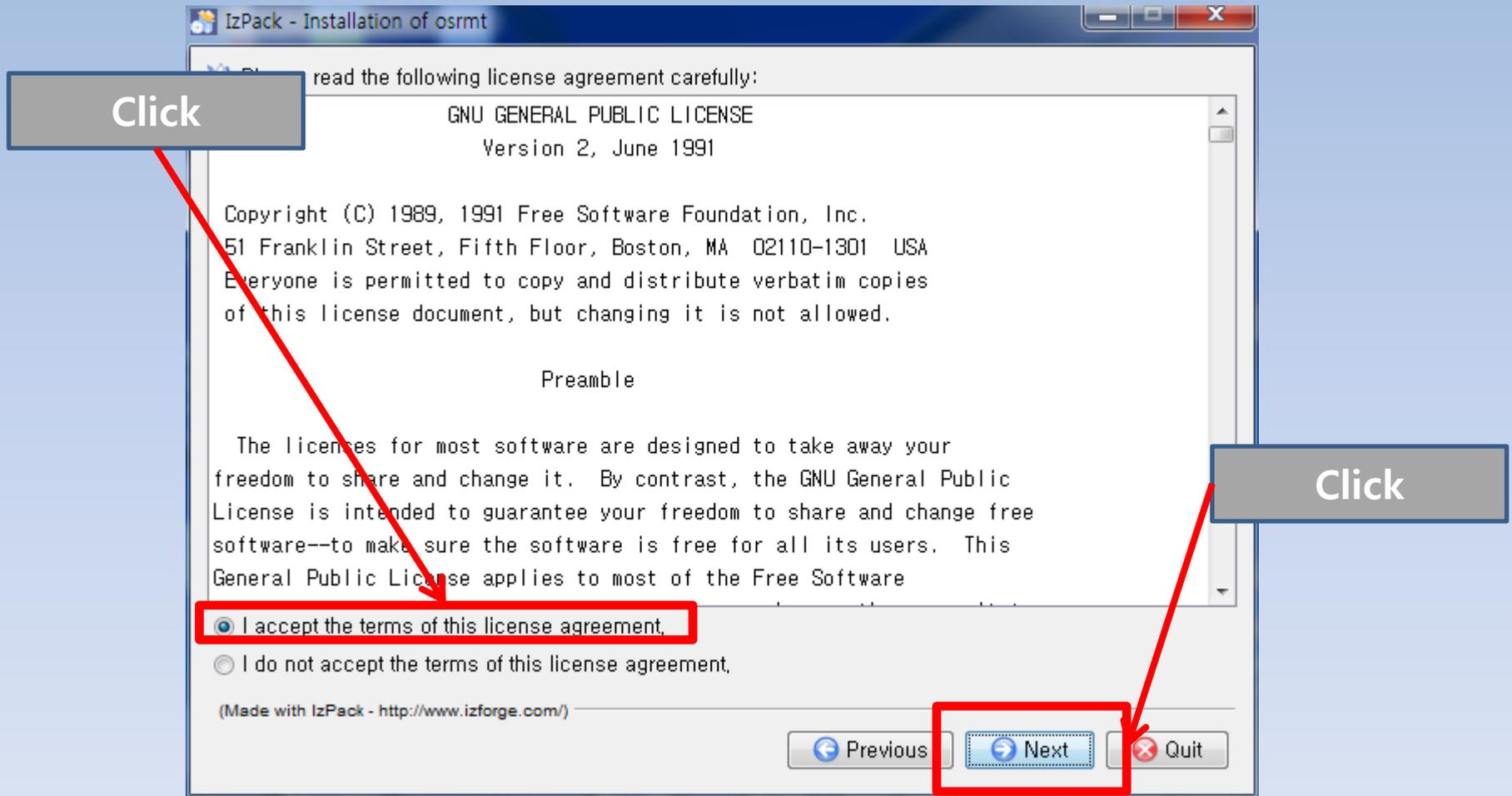
# OSRMT Installation



# OSRMT Installation

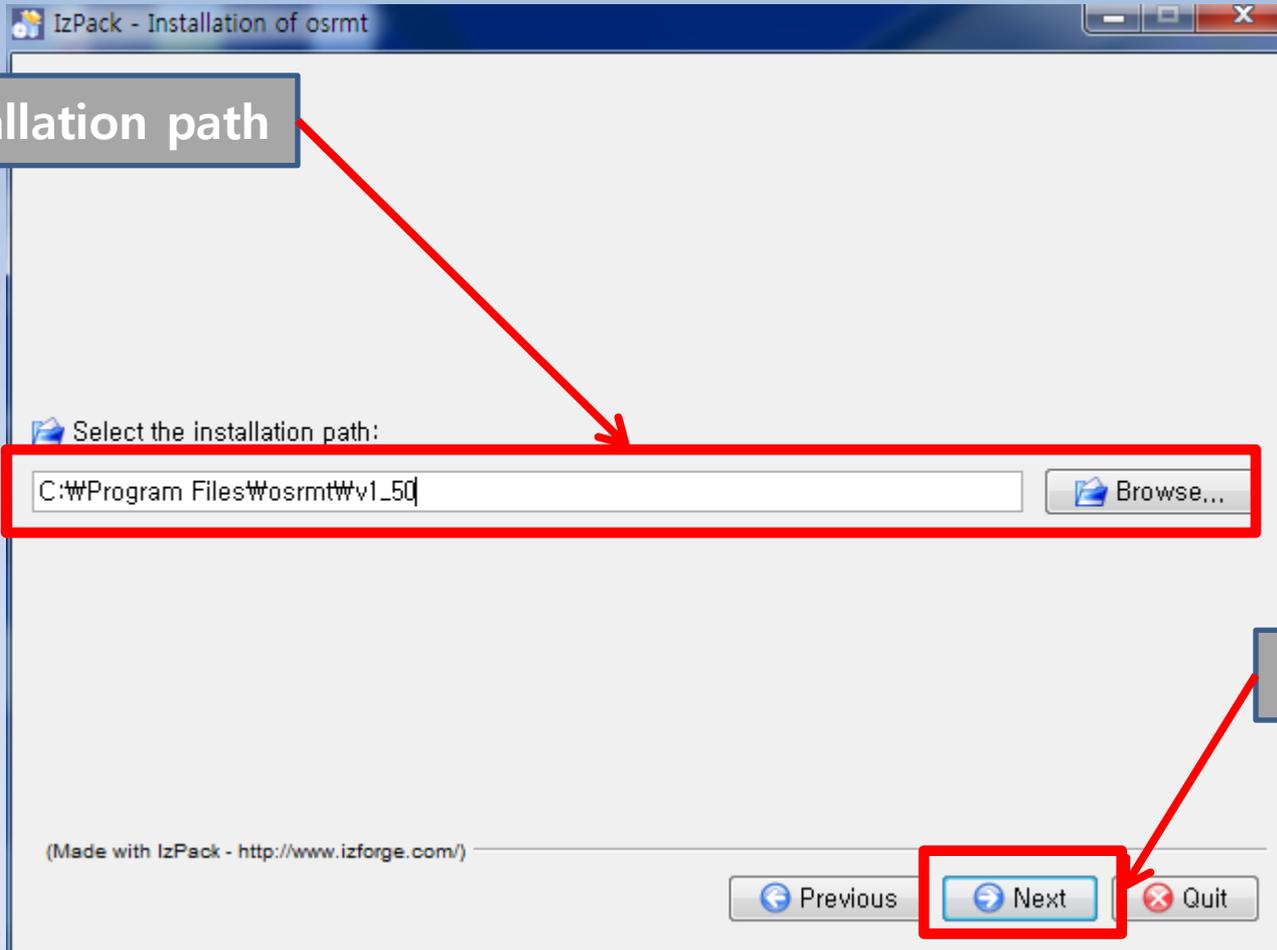


# OSRMT Installation



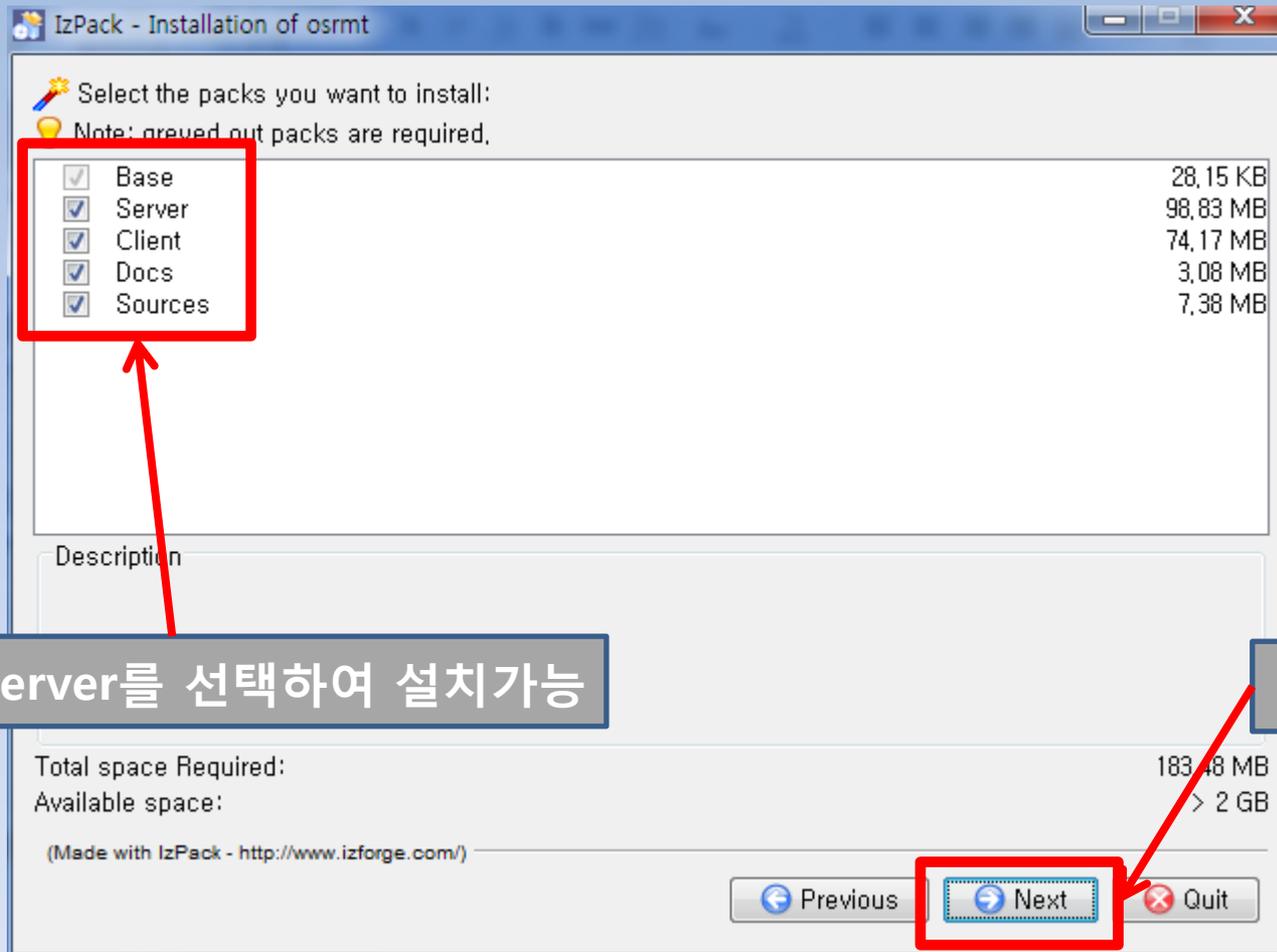
# OSRMT Installation

Select installation path



Click

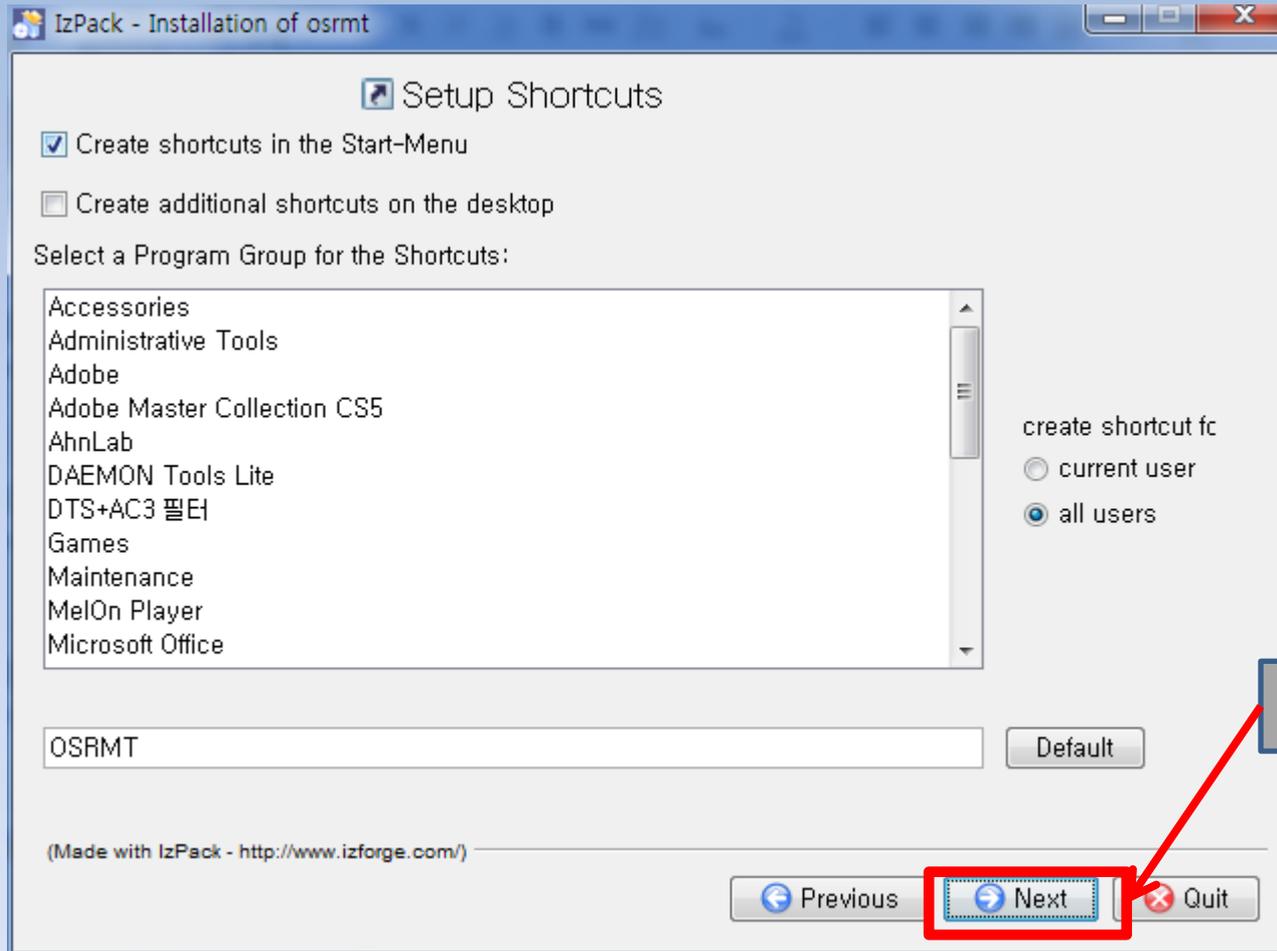
# OSRMT Installation



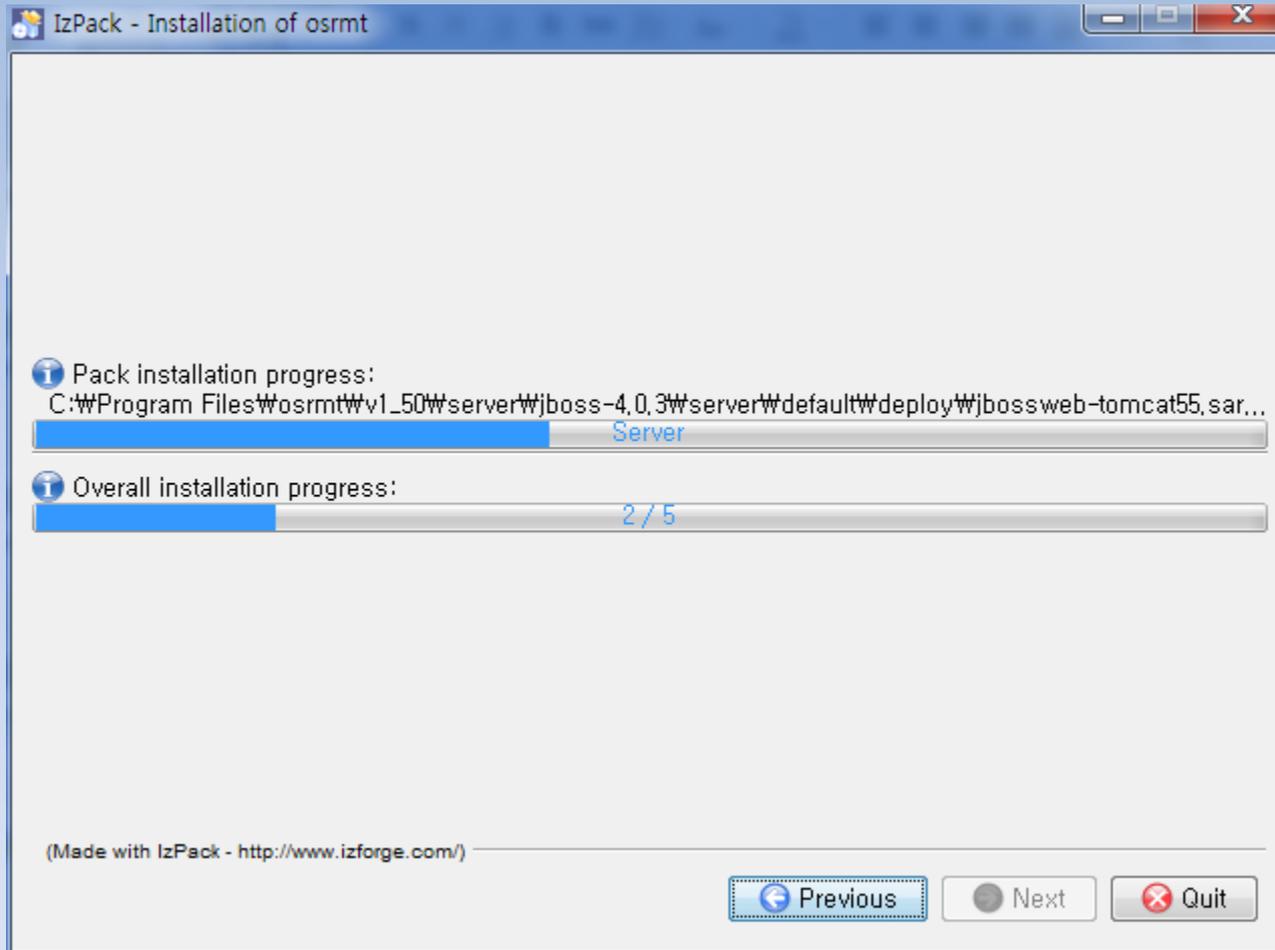
Client 와 Server를 선택하여 설치가능

Click

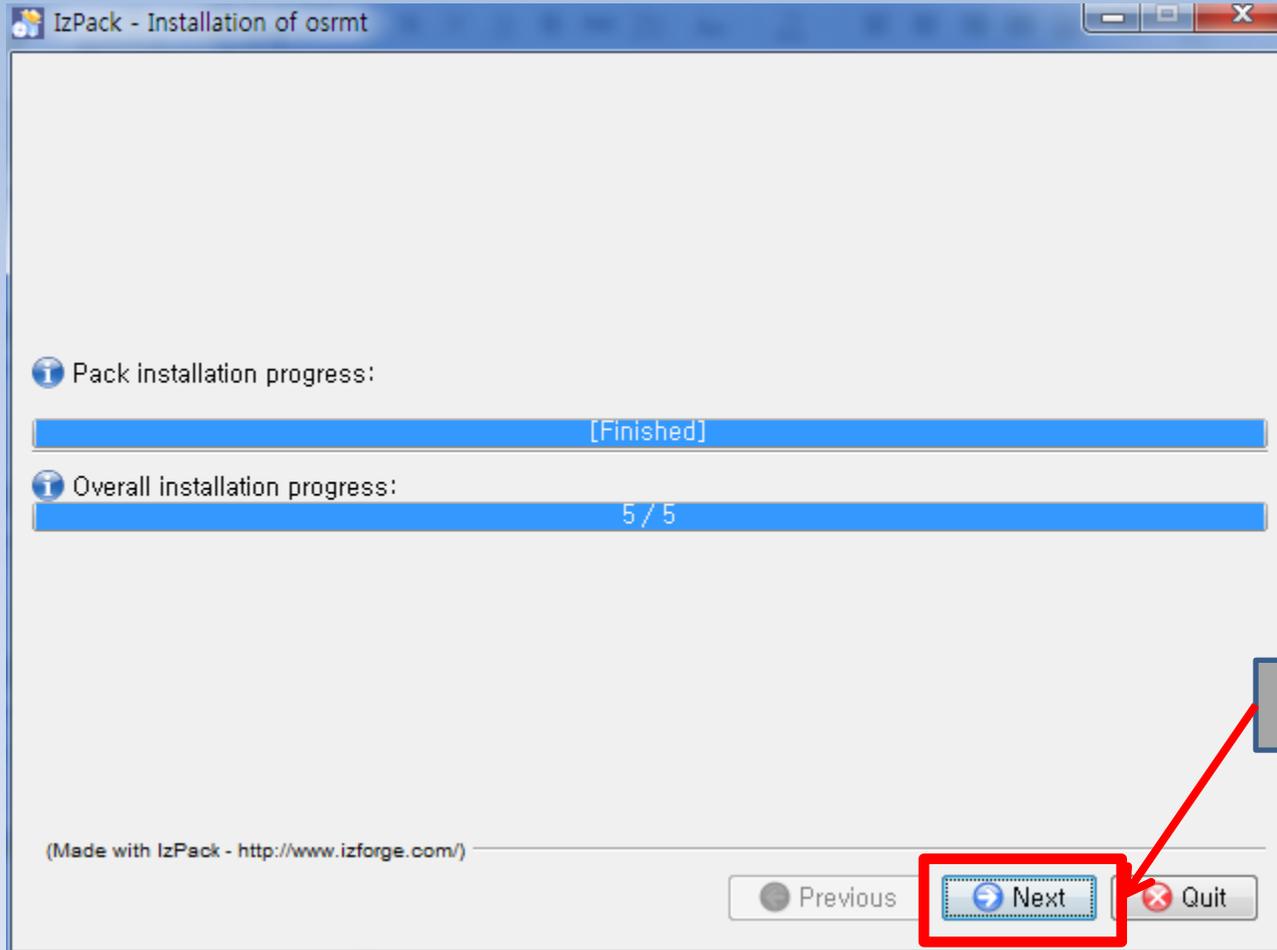
# OSRMT Installation



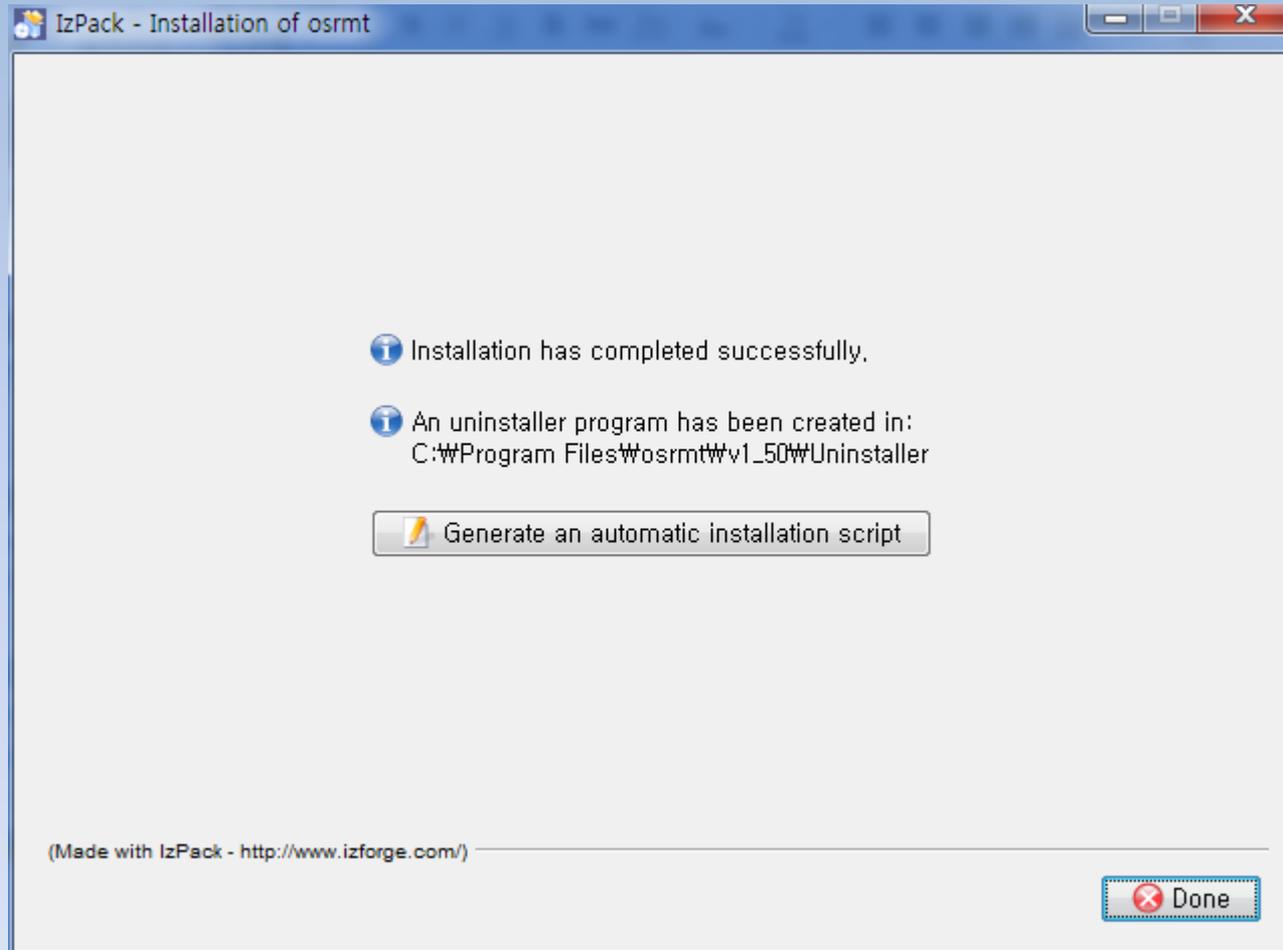
# OSRMT Installation



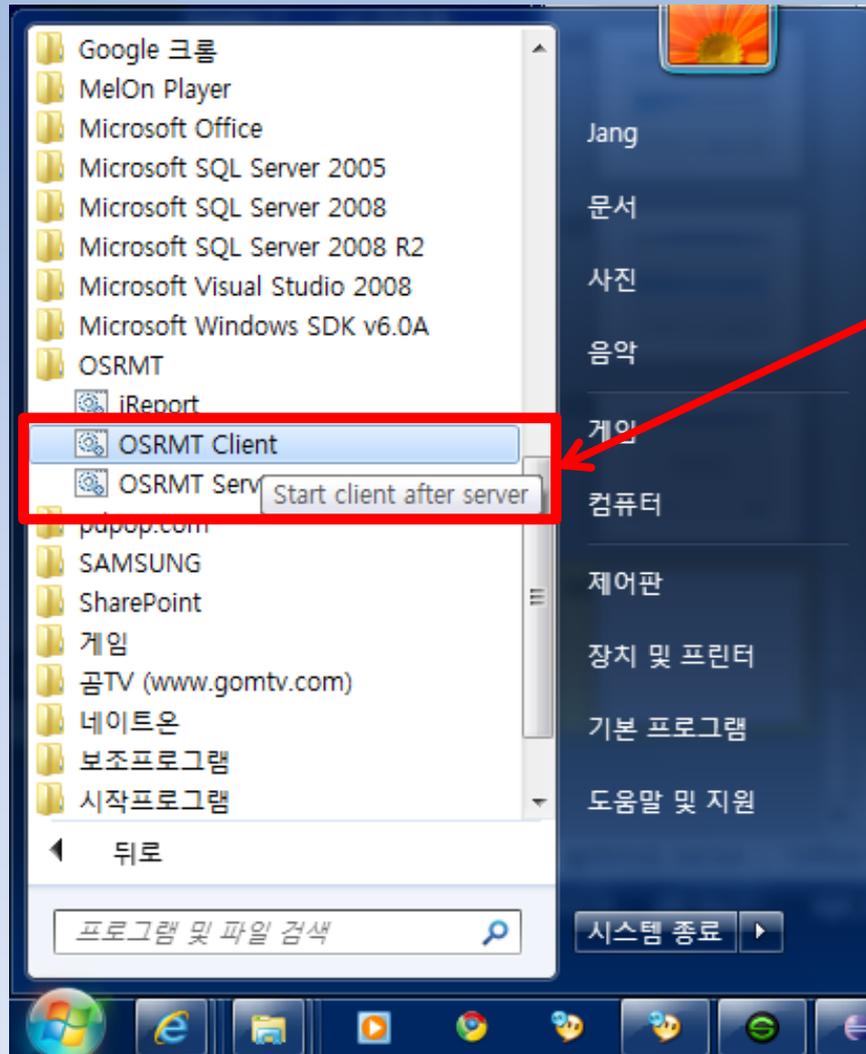
# OSRMT Installation



# OSRMT Installation

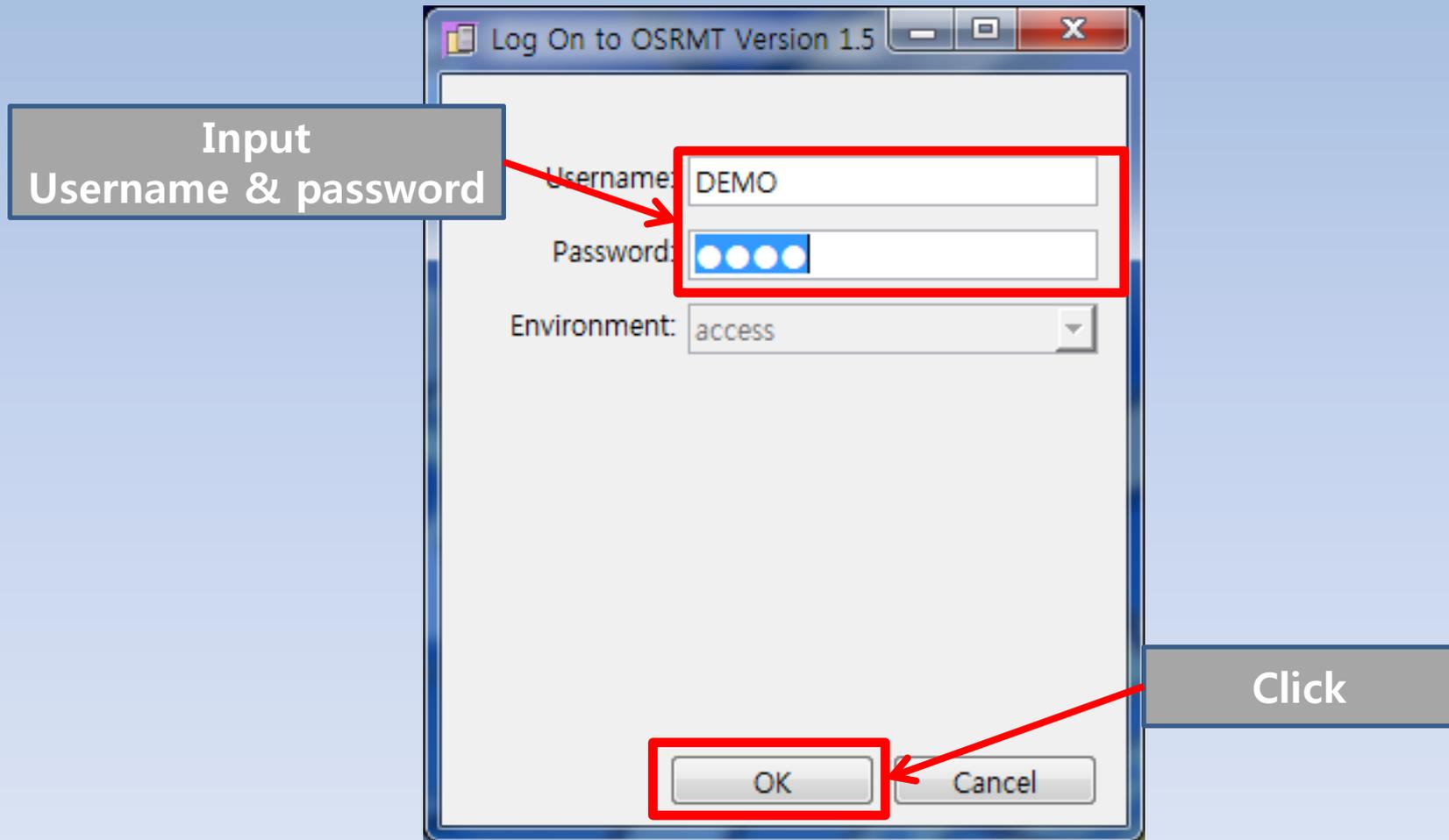


# OSRMT Usage

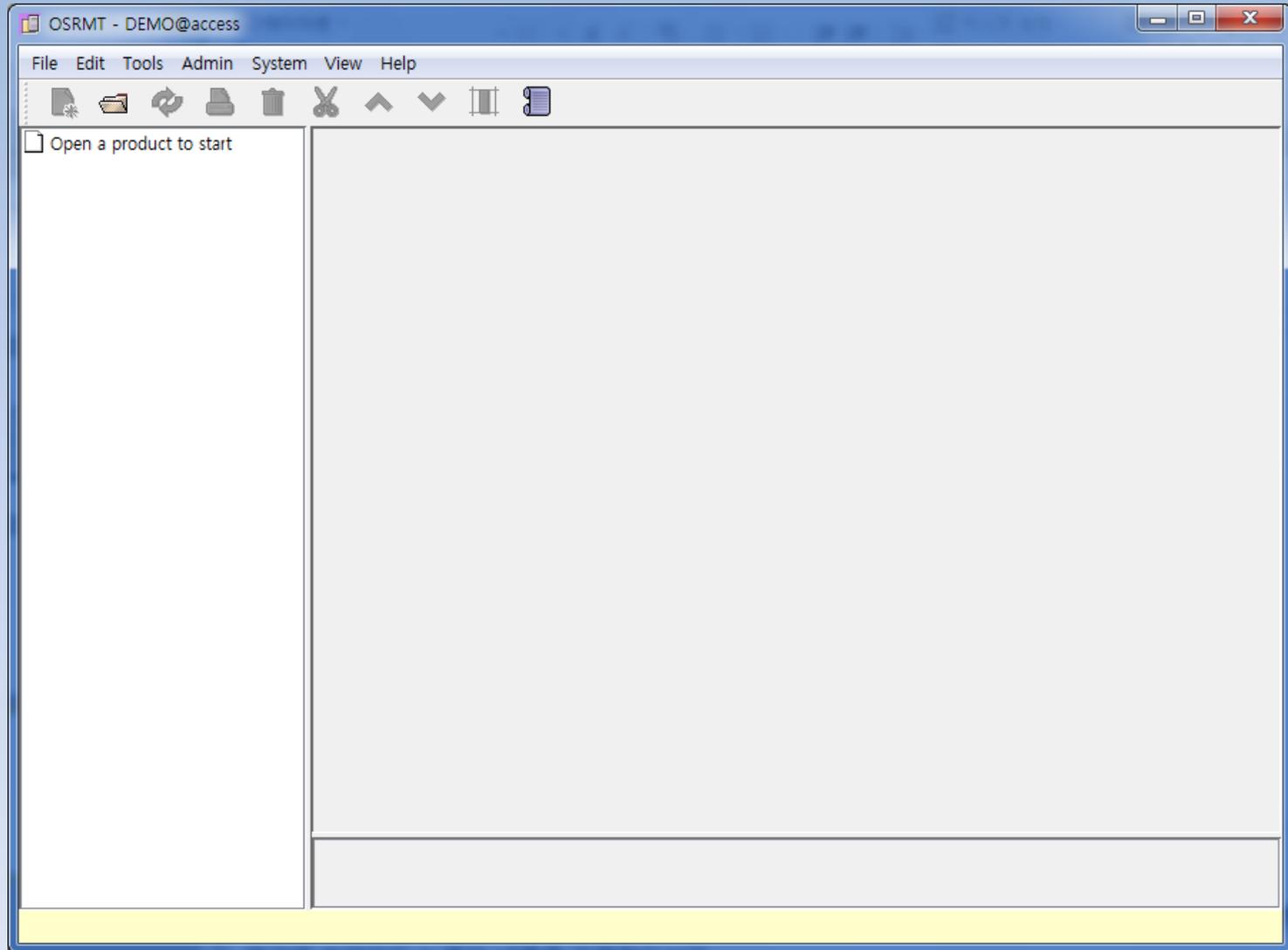


Click

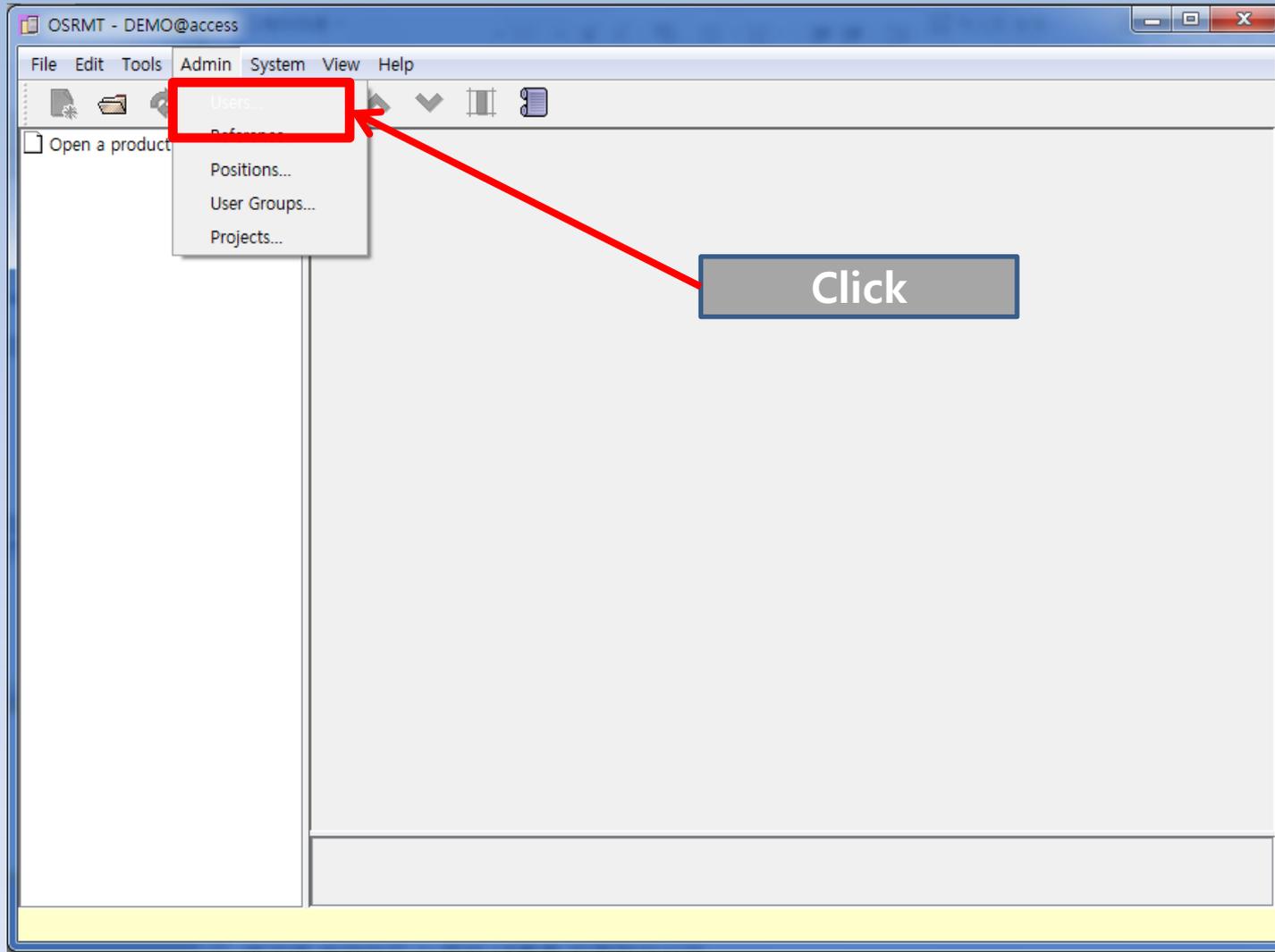
# OSRMT Usage



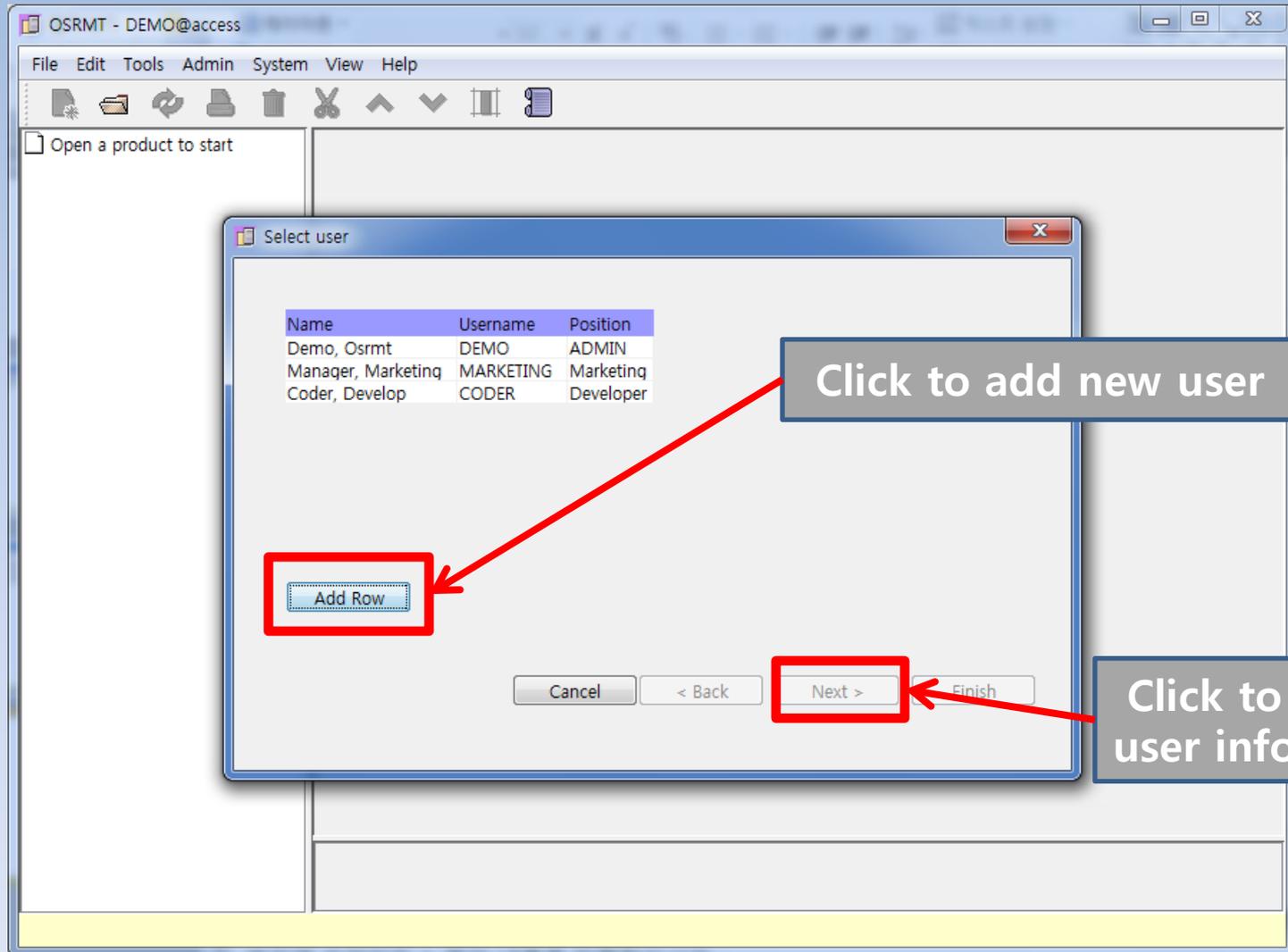
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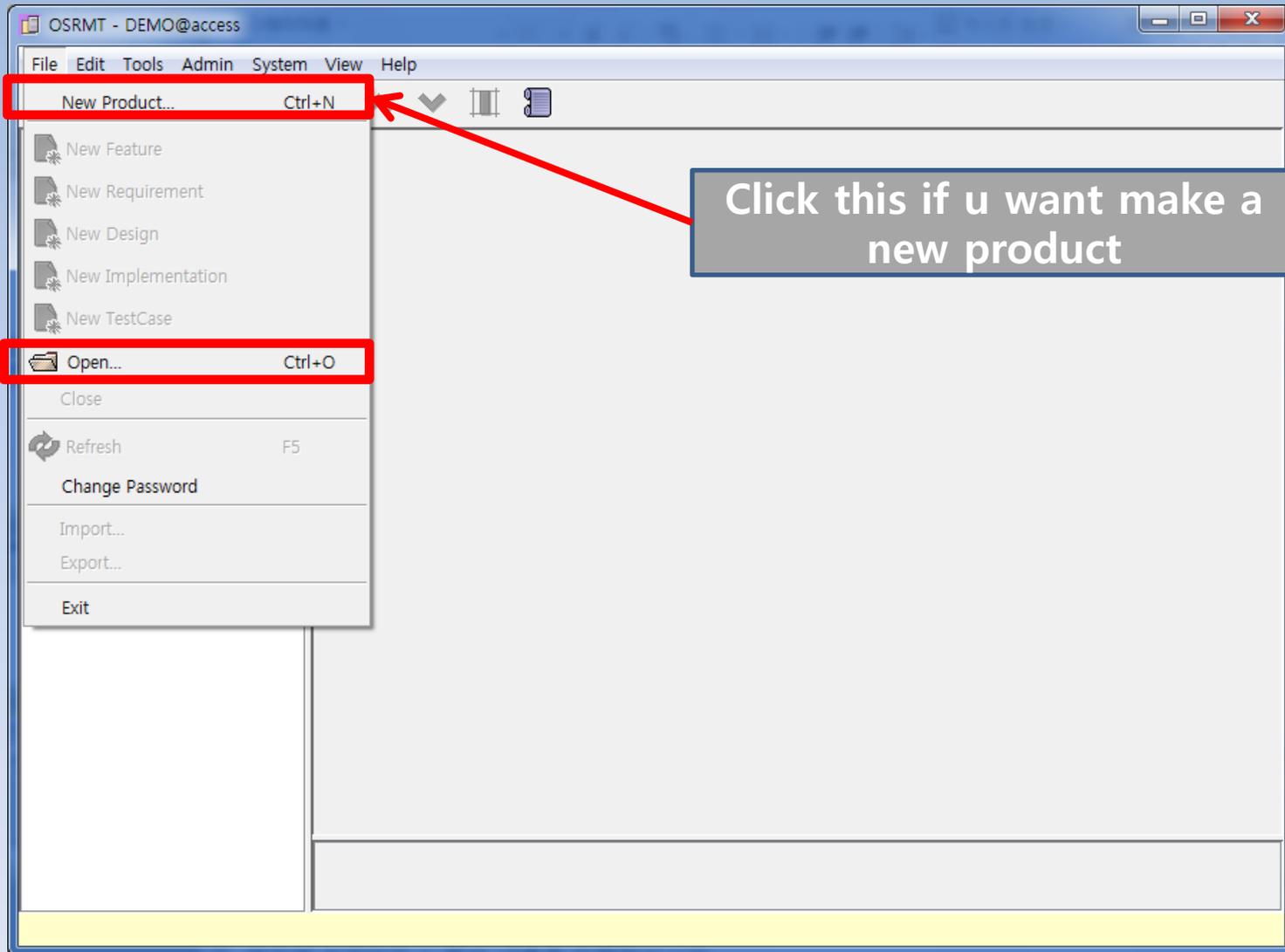
# OSRMT Usage



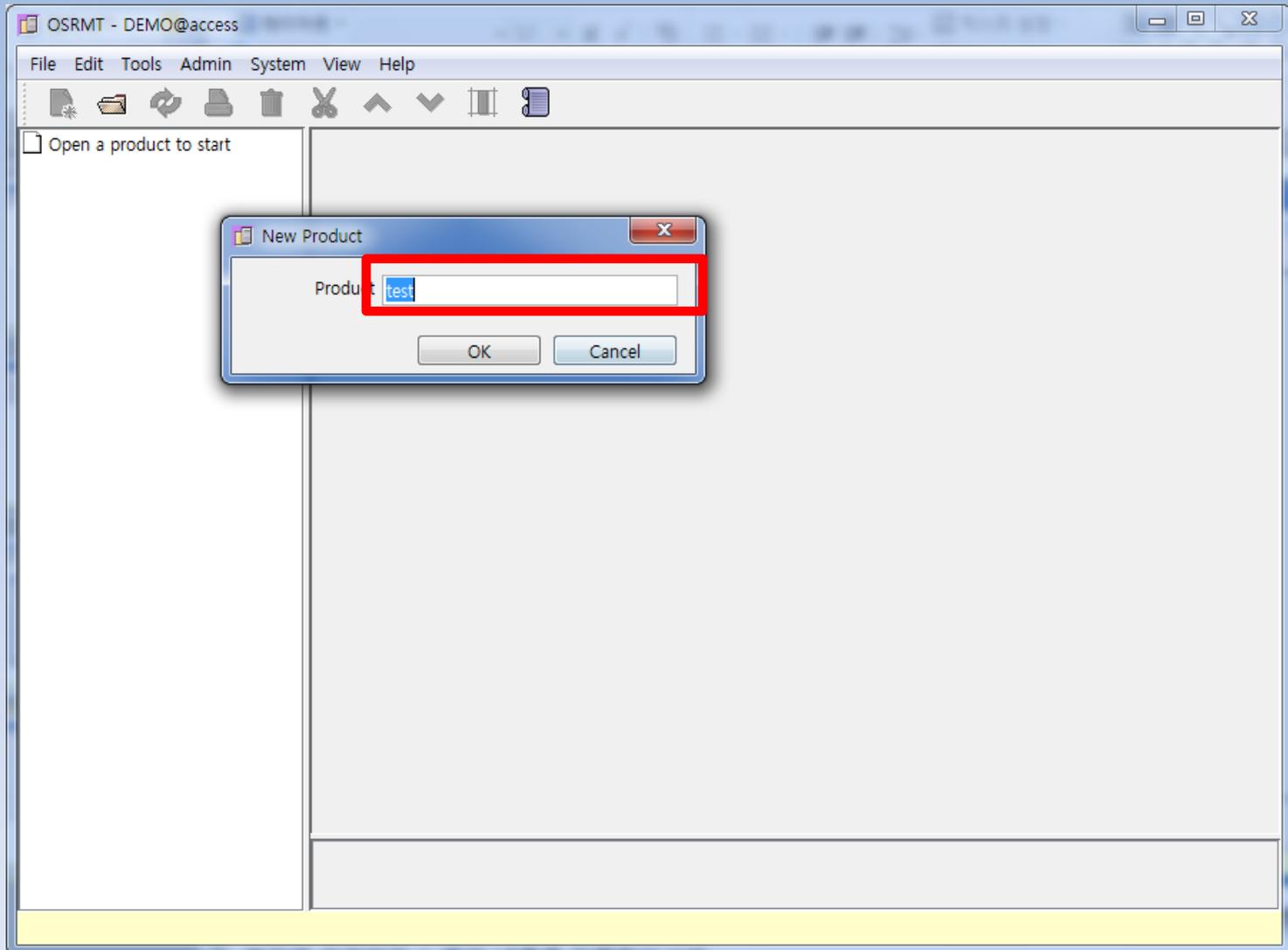
# OSRMT Usage



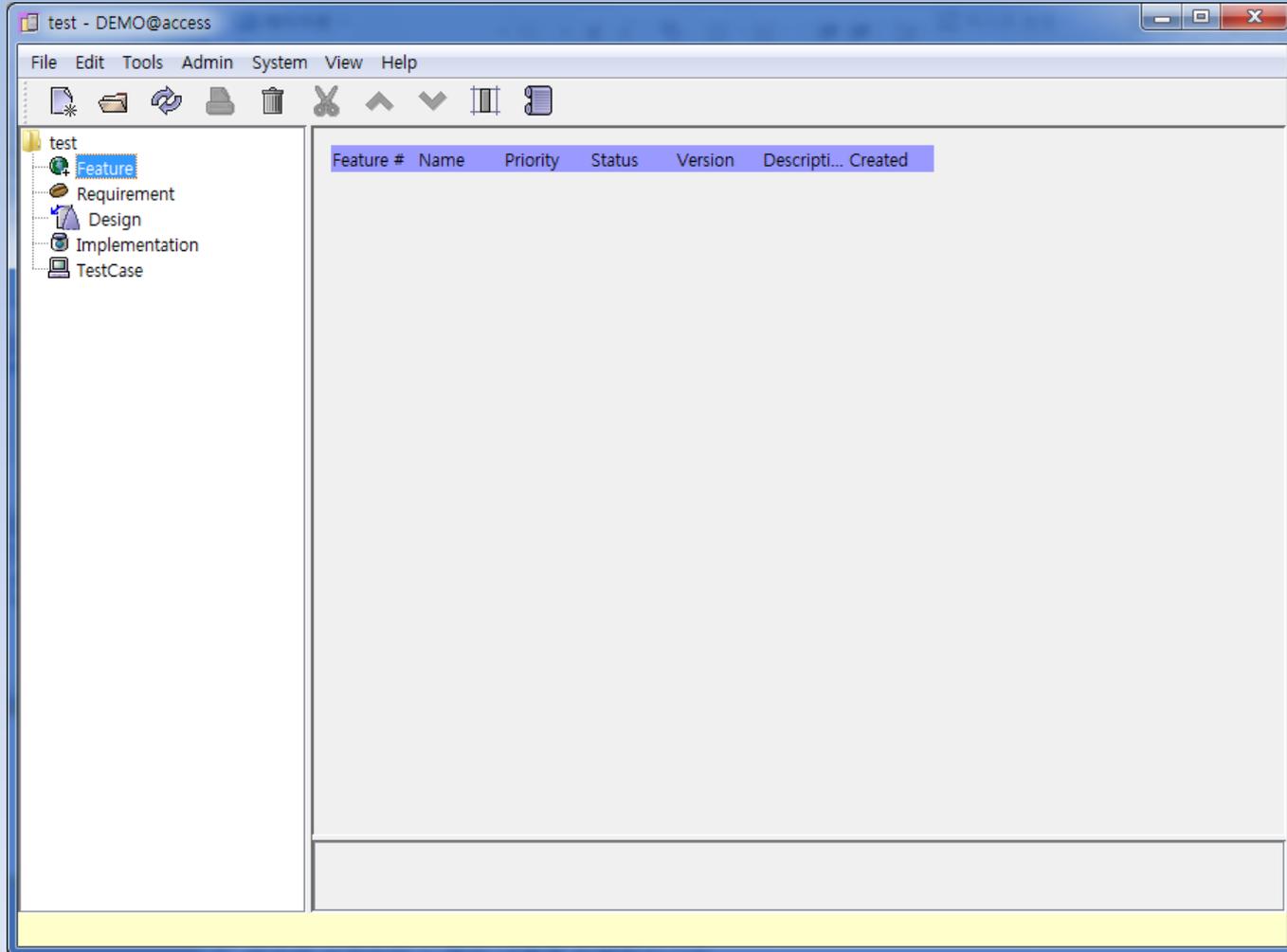
# OSRMT Usage



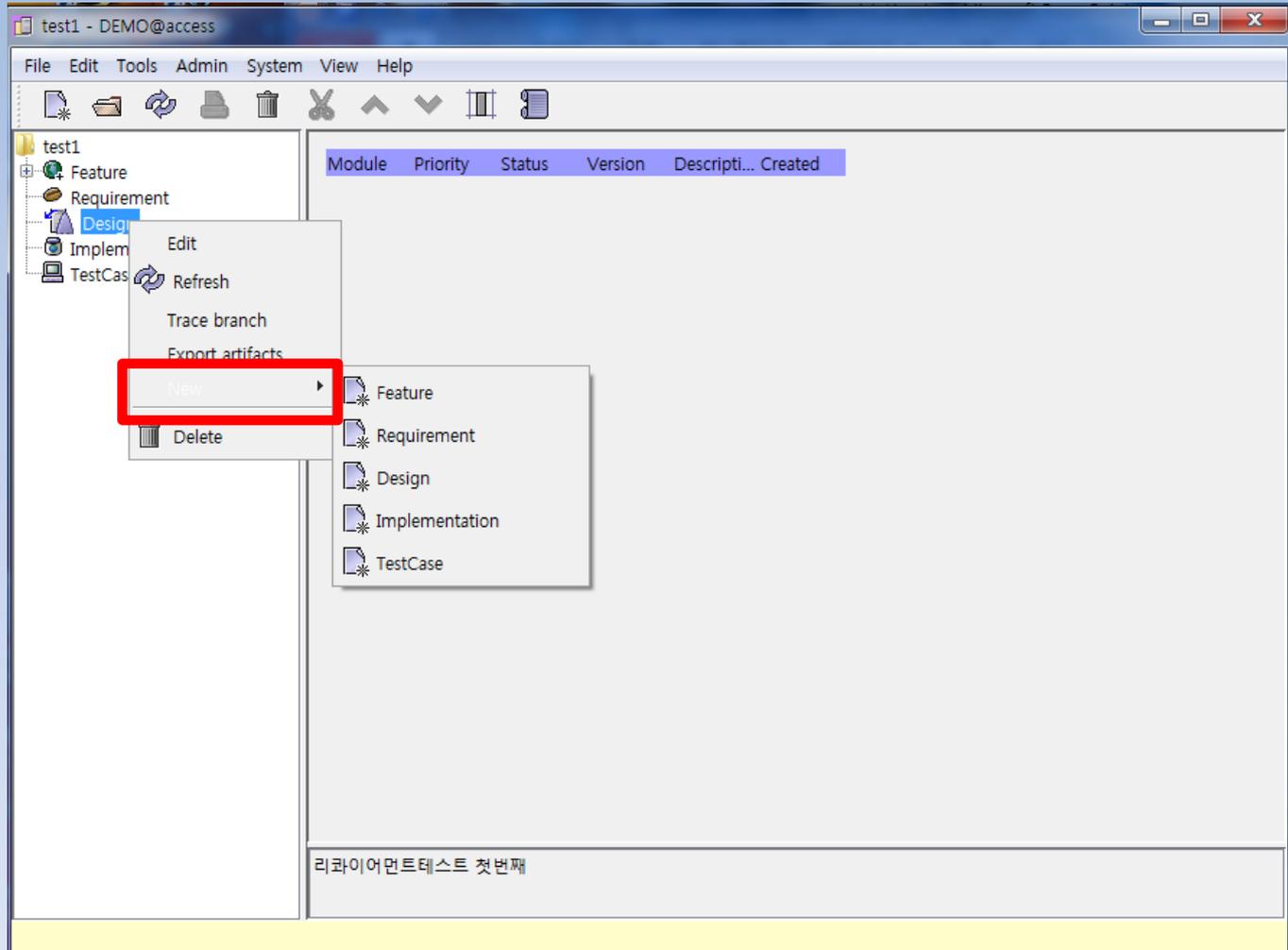
# OSRMT Usage



# OSRMT Usage



# OSRMT Usage



# OSRMT Usage

Requirement 리콰이어먼트테스트1

Requirement Details Background Use Case Dependencies History

Requirement: 리콰이어먼트테스트1

Version: 1.0

Priority: Low

Requirement Nbr: 1

Status: Submitted

Complexity: High

Assigned:

Effort: 0.0

Category: Business Requirement

Attachments

Descripti...	File name	Source
리콰이어먼트테스트 첫번째		

Description:

Right click to upload and attach files or create a hyperlink

< Back Next > Apply Cancel

# OSRMT Usage

The screenshot displays the OSRMT (Open Source Requirements Management Tool) interface. The window title is "test1 - DEMO@access". The menu bar includes File, Edit, Tools, Admin, System, View, and Help. The toolbar contains icons for file operations and navigation. The left sidebar shows a tree view with the following structure:

- test1
  - Feature
    - Requirement
    - 리콰이어먼트테스트1
  - Design
  - Implementation
  - TestCase

The main area displays a table of requirements. The table has the following columns: Req #, Name, Priority, Status, Version, Description, and Created. A single row is visible, representing a requirement with ID 1.

Req #	Name	Priority	Status	Version	Description	Created
1	리콰이어먼트테스트1	Low	Submitted	1.0	리콰이어먼트테스트 첫번째	04/27/2011 22:36.43

Below the table, a scroll bar is visible. At the bottom of the window, a text box contains the description: "리콰이어먼트테스트 첫번째".

# Conclusion

---

- JFeature

- Java Eclipse 개발자에게 편리
- 다수가 아닌 개인으로 개발할 때 좋음
- Requirements의 충족을 Unit Test로 확인하고 싶을 때

- OSRMT

- 다수의 개발자가 개발할 때 편리
- 고객으로부터 Requirements가 자주 변할 때 좋음
- 간편하면서도 강력한 Requirements Management 가 필요할 때

감사합니다.