

Knowledge Based Matching System

< 2015 - 1 Software Engineering >

팀 소개

- 89s
 - 팀장 : 2012105110 김낙정
 - 조원 : 2012105112 라채현



팀원 간 업무량 분담

- 업무량 분담

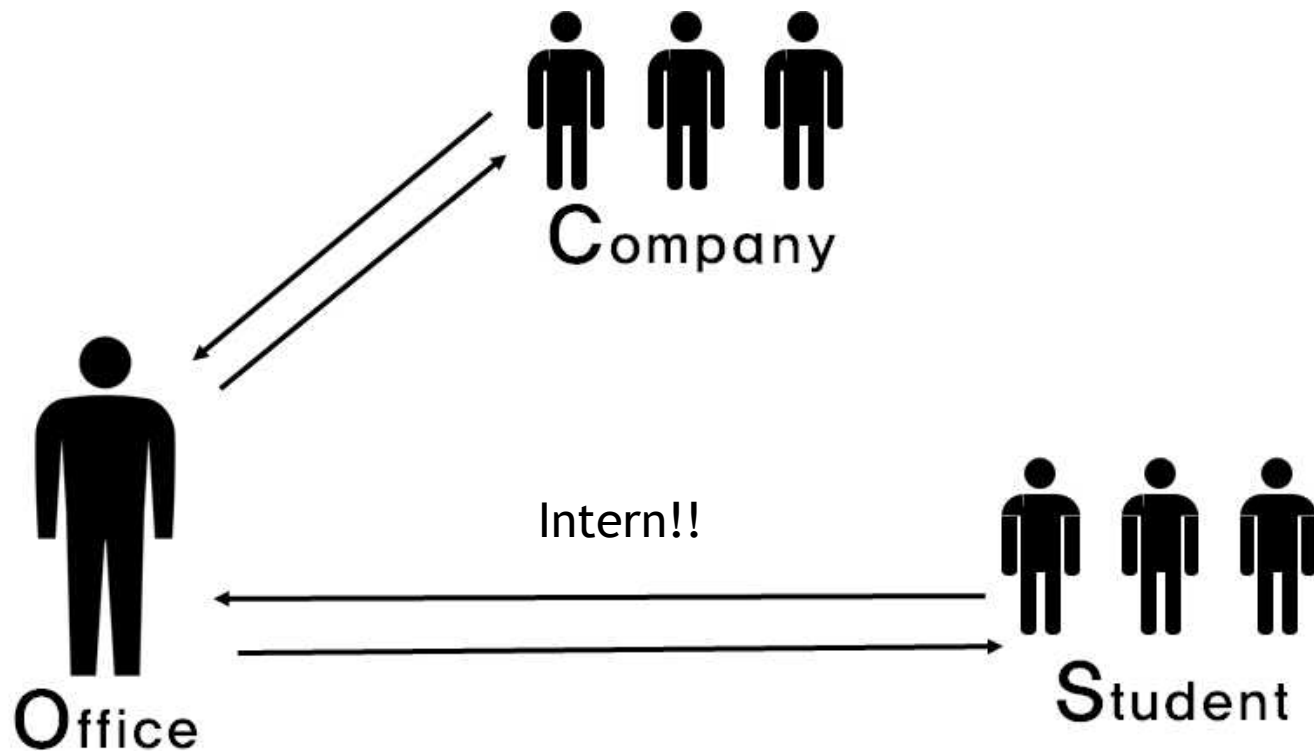
- 저희 조는 2인 소규모의 팀원으로 프로젝트를 진행하였기에 Server / Client 구분 없이 한 사람이 하나의 기능 단위로 전담하여 개발하였으며, 상대방이 개발 후 요구사항을 만족하는지 확인하는 테스터 역할을 하며 개발을 진행하였습니다.

일정

	3월		4월		5월				6월		
	4th week	1st week	2nd week	3rd week	4th week	1st week	2nd week	3rd week	4th week	1st week	2nd week
요구분석											
시스템 모델											
수행 계획서											
디자인 분석											
1차 구현											
2차 구현											
최종보고서											

개요 (과제소개)

- 과제소개 : Knowledge Based Matching System



개요 (과제목표)

- 기존 프로젝트에서 기능상에 문제점 없음
- System Reliability 측면에서 여러 인풋에 대한 핸들링이 필요함
- 인턴 모집 기능을 더 편리하게 해줄 기능추가가 필요함

세부목표(요구사항,개선점)

- 인풋 예외처리
- 개인정보 수정기능 추가
- 안전한 시스템 종료를 위한 종료버튼 추가
- 중복 로그인 방지(Reliability)
- 버전컨트롤 기능
- 로그파일 저장 기능
- 클래스 구조 정리
- 회사와 학생간에 메시지 전송 시스템
- etc

품질향상도 - 기존

☐ New Request ☐

Position:

Start date: 2014 Y 12 M 20 D

End date: 2014 Y 12 M 30 D

Payment: KRW

Number of Students: p

Due date: 2014 Y 12 M 15 D

Grade:

Technical skills :
☒ Java
☐ Apache Server
☐ Oracle SQL
☐ OOP Design

Non-technical skills :
☒ Team spirit
☐ Quick learning
☐ Driving licence

Description:
Java Engineer, We wants to student who is available with Team Spirit

Title	Date	Answered
Java Engineer	2014-12-15	true

Title	Date	Unanswered
Java Engineer	2014-12-15	<input type="checkbox"/>

품질향상도 - 기존

Title	Date	Unanswered
Java Engineer	2014-12-15	<input type="checkbox"/>

Title:
 Company:
 Number of students: Minimum grade:
 Due date: Salary:
 Start: Finish:
 Description:

Required technical skills:
 Required non-technical skills:

Filter responses: ☐ Yes ☐ No ☐ Ask for details ☐ Unanswered

Name	GPA	Answer	Pick

Message:

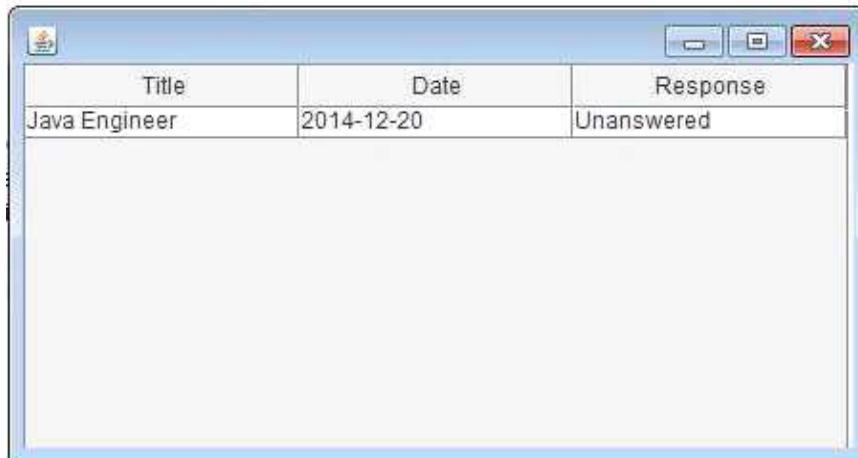
Filter responses: Minimum grade:

Technical skills
☒ Java ☐ Apache Server ☐ Oracle SQL ☐ Object-Oriented Programming

Non-technical skills
☒ Team spirit ☐ quick learning ☐ driving licence

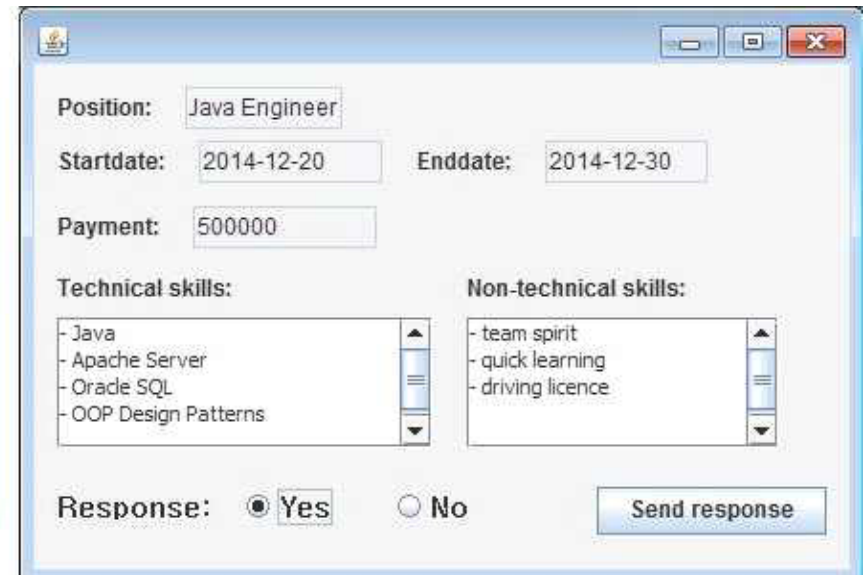
Name	GPA	Pick
Janos	4	<input type="checkbox"/>

품질향상도 - 기존



A screenshot of a software window displaying a table with three columns: Title, Date, and Response. The table contains one row of data: Java Engineer, 2014-12-20, and Unanswered. The window has a standard Windows-style title bar with minimize, maximize, and close buttons.

Title	Date	Response
Java Engineer	2014-12-20	Unanswered



A screenshot of a software window displaying a detailed job application form. The form includes fields for Position (Java Engineer), Startdate (2014-12-20), Enddate (2014-12-30), and Payment (500000). It also features two lists of skills: Technical skills (Java, Apache Server, Oracle SQL, OOP Design Patterns) and Non-technical skills (team spirit, quick learning, driving licence). At the bottom, there are radio buttons for Response (Yes, No) and a Send response button.

Position: Java Engineer

Startdate: 2014-12-20 Enddate: 2014-12-30

Payment: 500000

Technical skills:

- Java
- Apache Server
- Oracle SQL
- OOP Design Patterns

Non-technical skills:

- team spirit
- quick learning
- driving licence

Response: ☒ Yes ☐ No

Send response

품질향상도 - 기존

This screenshot shows a web application window for creating a job request. The form includes fields for Title, Company, Number of students, Minimum grade, Due date, Salary, Start, and Finish. A Description field contains the text "Java Engineer, We wants to student who is available with Team Spirit." Below this are two lists for Required technical skills (containing "JAVA") and Required non-technical skills (containing "TEAMWORK"). A "Search students" button is located below these lists. The "Filter responses" section has four checkboxes: "Yes", "No", "Ask for details", and "Unanswered". Below the filters is a table with columns "Name", "GPA", "Answer", and "Pick". The table contains one row for "Janos" with a GPA of "4", an Answer of "YES", and a checked "Pick" checkbox. At the bottom of the window is a "Message" field containing the text "Student Janos was answered. So we are pick him." and a "Send reply" button.

Title: Java Engineer

Company: Samsung, Ltd

Number of students: 2 Minimum grade: 3

Due date: 2014-12-15 Salary: 500000

Start: 2014-12-20 Finish: 2014-12-30

Description:
Java Engineer, We wants to student who is available with Team Spirit.

Required technical skills:
- JAVA

Required non-technical skills:
- TEAMWORK

Search students

Filter responses: ☐ Yes ☐ No ☐ Ask for details ☐ Unanswered

Name	GPA	Answer	Pick
Janos	4	YES	<input checked="" type="checkbox"/>

Message:
Student Janos was answered. So we are pick him.

Send reply

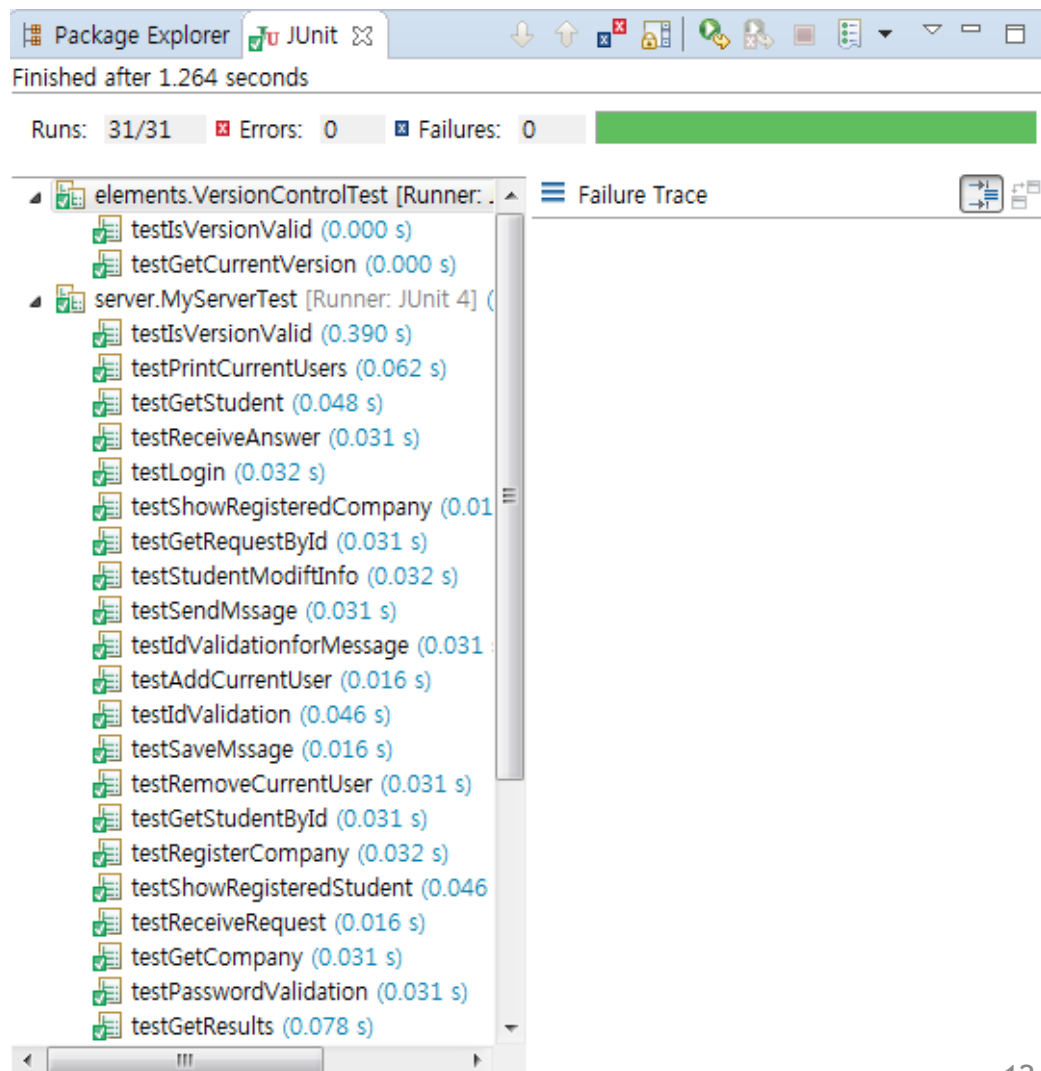
This screenshot shows a web application window displaying a table of job requests. The table has three columns: "Title", "Date", and "Answered". The first row contains the data "Java Engineer", "2014-12-15", and "true". Below the table is a "Make New Request" button.

Title	Date	Answered
Java Engineer	2014-12-15	true

Make New Request

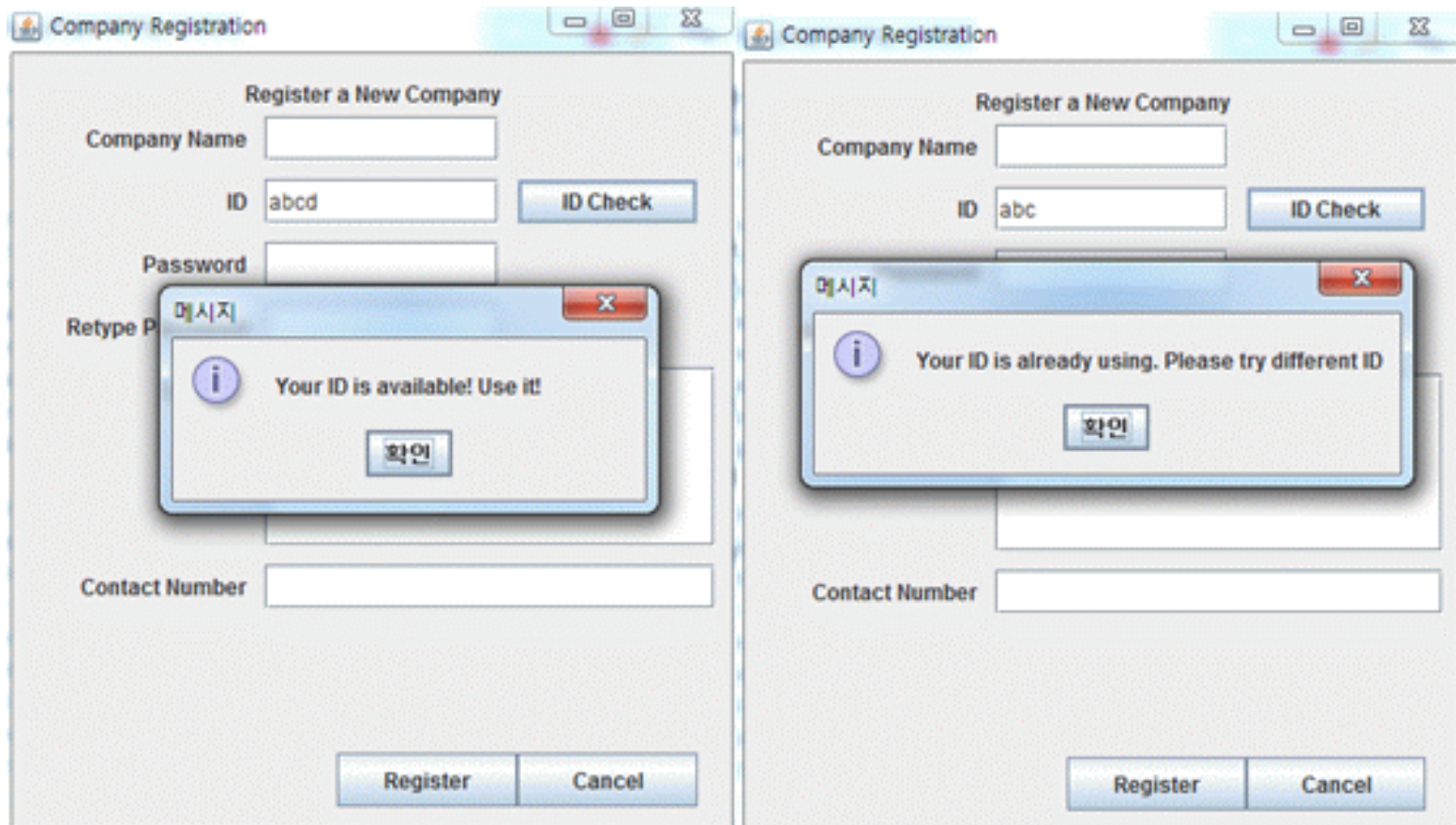
품질향상도 - 개선

- TDD 방식 개발



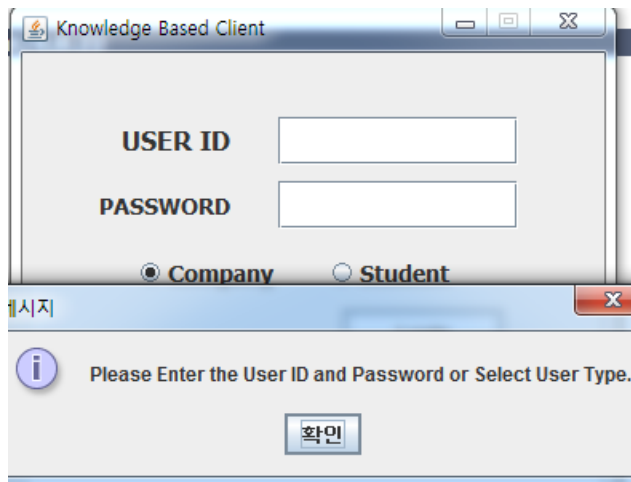
품질향상도 - 개선

- ID Check



품질향상도 - 개선

- 상황 별 로그인 실패 알림



No Input



Wrong password



Duplicated Login

품질향상도 - 개선

- Registration 시 인풋 에러 핸들링

The image shows a registration form with a 'Retype Password' field and a 'Valid Password!' label. A modal dialog box titled '메시지' (Message) is displayed, containing an information icon and the text 'Please fill in the checkBox.' with a '확인' (OK) button. Below the dialog, the form has two columns of checkboxes: 'Tech Skills' and 'Non-Tech Skills'. The 'Tech Skills' column includes 'Java' (checked), 'Apache Server', 'Oracle SQL', and 'OOP Design'. The 'Non-Tech Skills' column includes 'Team spirit', 'Quick learning', and 'Driving licence'. At the bottom are 'Register' and 'Cancel' buttons.

Tech Skills	Non-Tech Skills
<input checked="" type="checkbox"/> Java	<input type="checkbox"/> Team spirit
<input type="checkbox"/> Apache Server	<input type="checkbox"/> Quick learning
<input type="checkbox"/> Oracle SQL	<input type="checkbox"/> Driving licence
<input type="checkbox"/> OOP Design	

Register Cancel

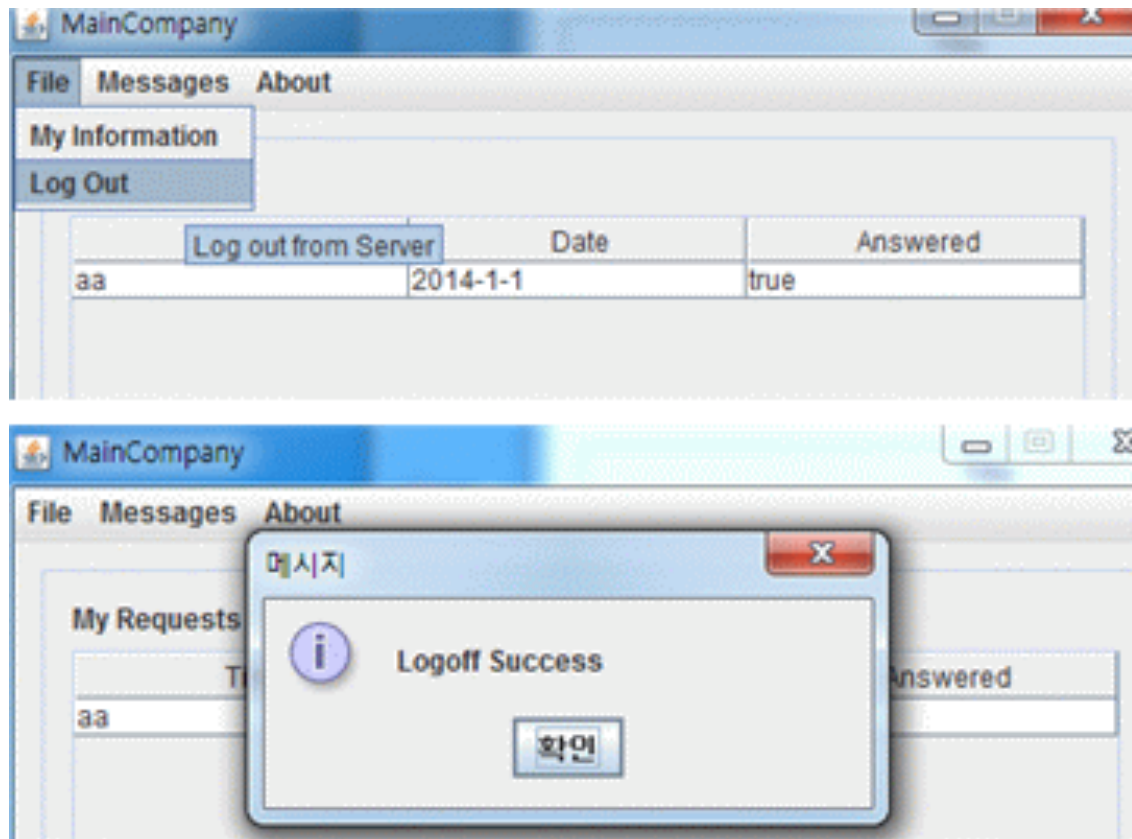
The image shows the same registration form as the previous one, but the modal dialog box now displays the text 'The registration is completed.' with a '확인' (OK) button. The form fields and checkboxes remain the same.

Tech Skills	Non-Tech Skills
<input checked="" type="checkbox"/> Java	<input type="checkbox"/> Team spirit
<input type="checkbox"/> Apache Server	<input checked="" type="checkbox"/> Quick learning
<input type="checkbox"/> Oracle SQL	<input type="checkbox"/> Driving licence
<input type="checkbox"/> OOP Design	

Register Cancel

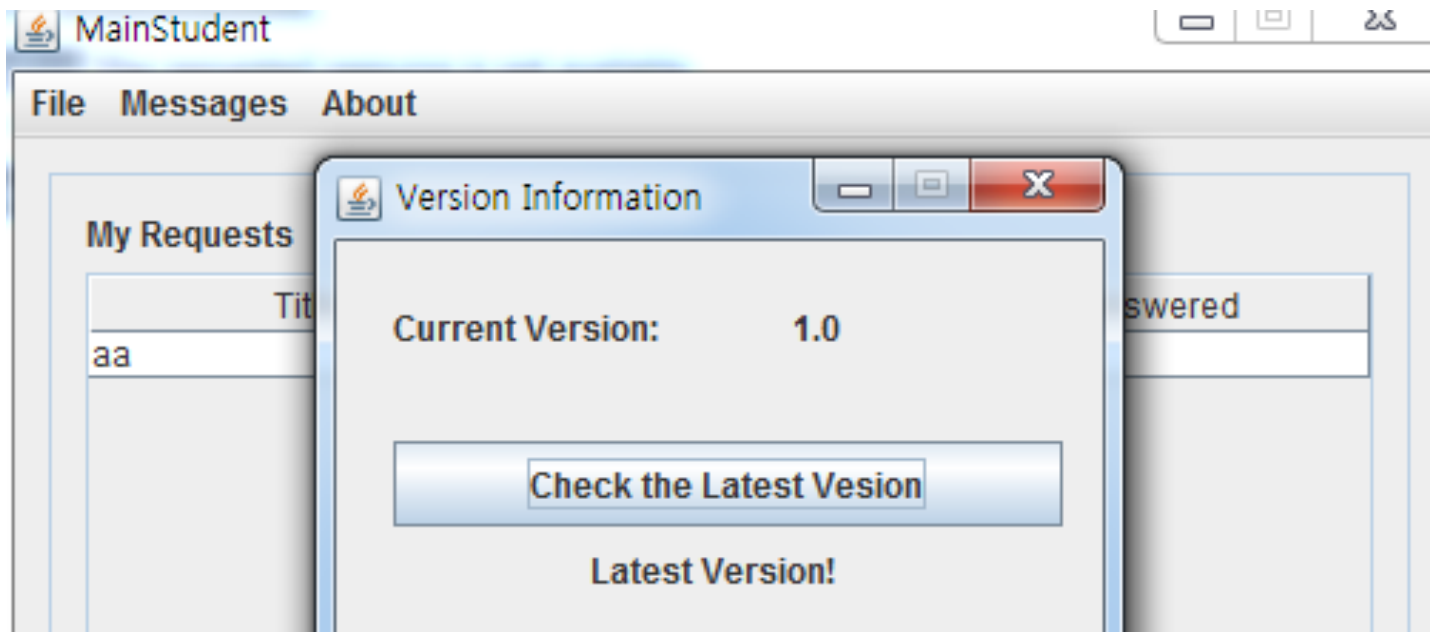
품질향상도 - 개선

- 안전한 종료를 위해 종료버튼 추가



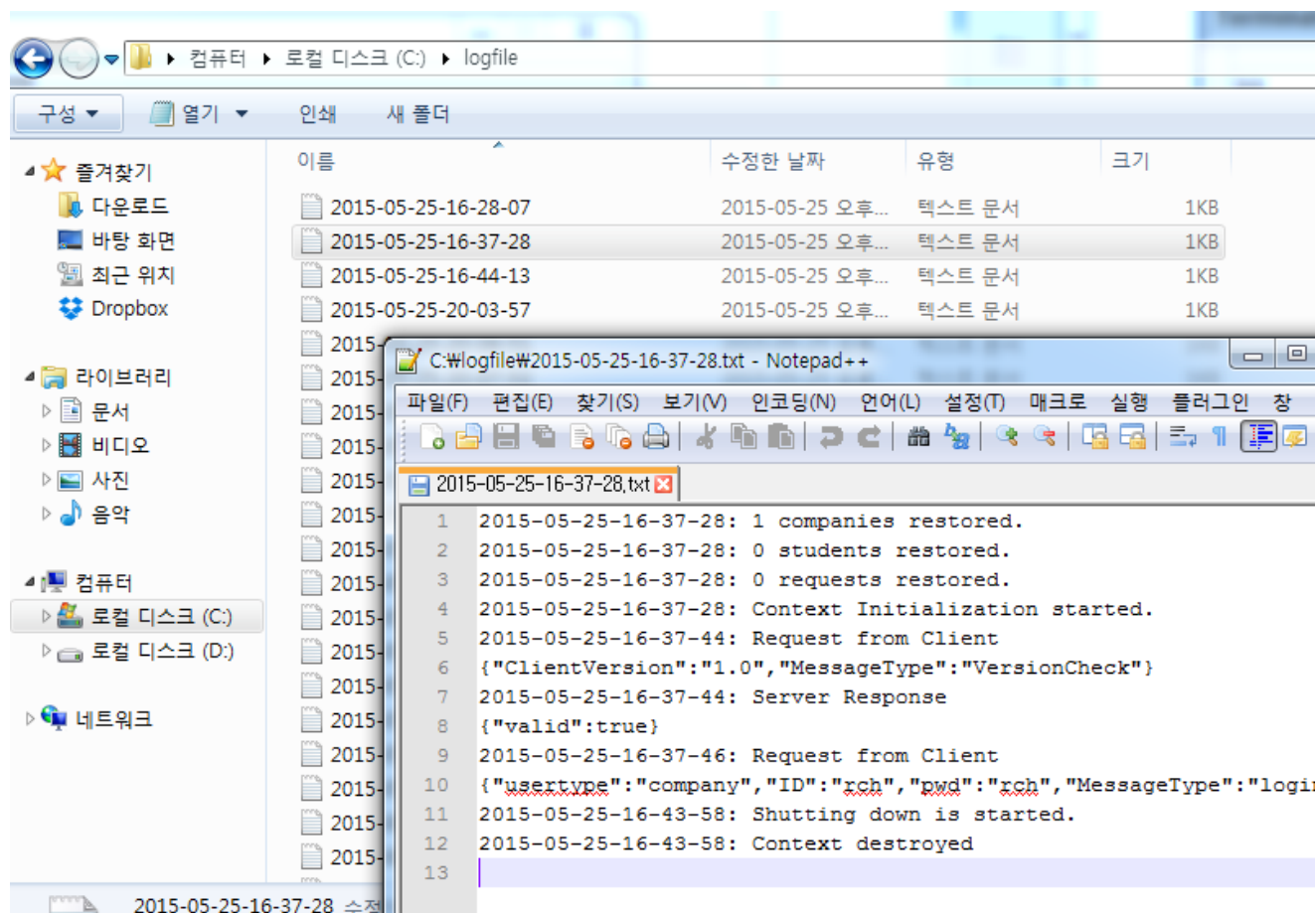
품질향상도 - 개선

- 버전 컨트롤 기능



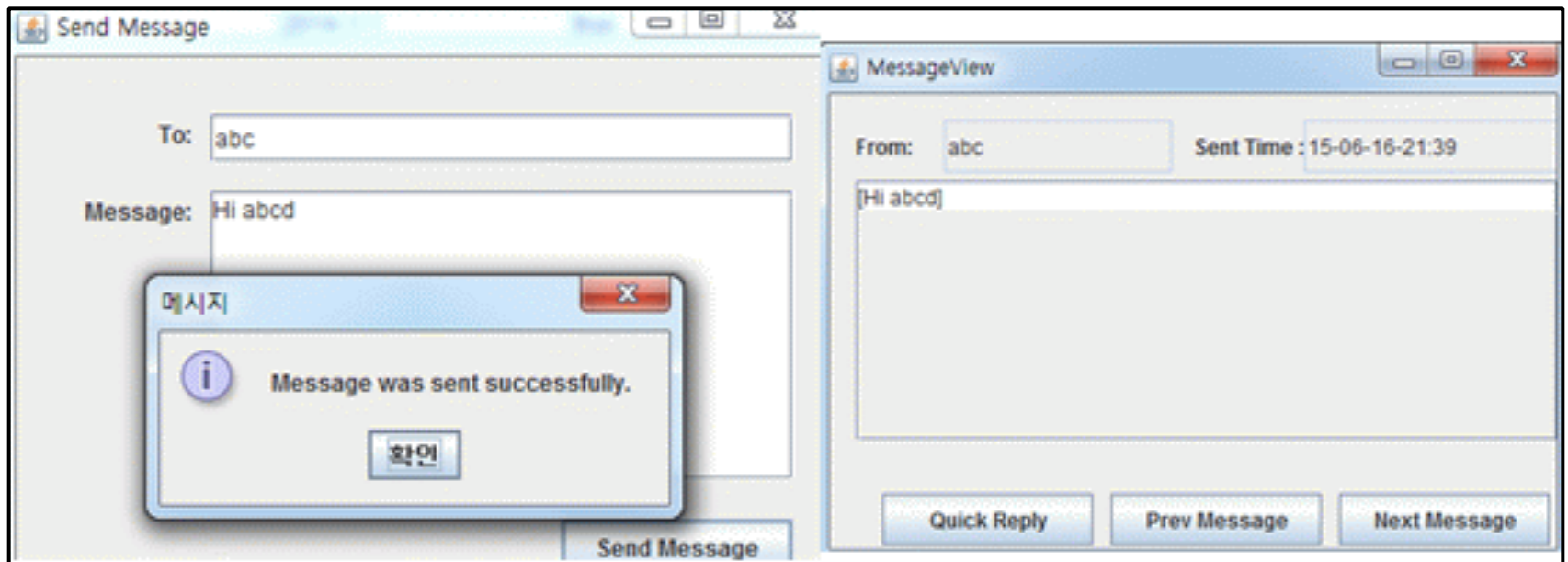
품질향상도 - 개선

- 시스템 안전성 향상을 위한 로그파일 저장



품질향상도 - 개선

- 메시지 시스템



비용절감방식

- Tool을 사용해서 비용을 절감하려고 노력하였다
 - Git : 팀원 모두 같은 공간에 모이지 않고도 각자 스케줄에 맞춰서 개발을 진행하고 통합할 수 있었다.
 - ObjectAid Class Diagram : UML Tool로 클래스 구조 정리를 할 때 클래스 간에 연관관계를 한눈에 보여주어 빠르게 구조를 파악 할 수 있었다.
 - SonarQube : 프로젝트 내에 문제점들을 발견해주어 어떠한 부분을 수정 해야 할지 방향을 잡는데 도움을 주었다.

고찰

- TDD Process에 대한 이해
- 프로젝트의 기반 아키텍처에 대한 이해도 부족
- TDD에 대한 명확한 목적과 필요성 이해

감 사 합 니 다