



2nd Testing

by Team 1

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I . Test Environment

1. Testing Environment for CTIP
2. Testing Strategies

1. Test Environment for CTIP

OS	Windows 7
Language	Java
Unit Test Tool	JUnit
Build Automation	Ant
SCM Tool	Visual SVN
CI Tool	Hudson
Web App Server	Tomcat
RE Tool	JFeature

2. Testing Strategies

- **Our Testing Strategies**
 - Entire Testing
 - Black Box Test
 - 1st Testing
 - Program test oriented(by document)
 - 2nd Testing
 - Functional test oriented

II. 2nd Testing - Team1

1. 1st testing feed-back
2. New bugs
3. Unit testing

1st testing feed-back

- Errors & Bugs
 - Usecase. Display Parking Floor
 - Usecase. Sort Data
 - Modification complete
- Confirm Requirements
 - Needs function that terminate all of windows
 - Modification complete

1st testing feed-back

- Document expression faults & Misunderstanding
 - Usecase. Select Parking Lot
 - Usecase. Skip Receipt
 - Usecase. Print Receipt
 - Usecase. Parking Complexity Visualize

- Modification complete

New bugs

1층 0번	1층 1번
1층 4번	1층 5번
1층 8번	1층 9번
1층 12번	1층 13번
1층 16번	1층 17번

1층 2번	1층 3번
1층 6번	1층 7번
1층 10번	1층 11번
1층 14번	1층 15번
1층 18번	1층 19번

차량번호 : 경기11가1111

입장 년도 : 2012년

이용해 주셔서 감사합니다.

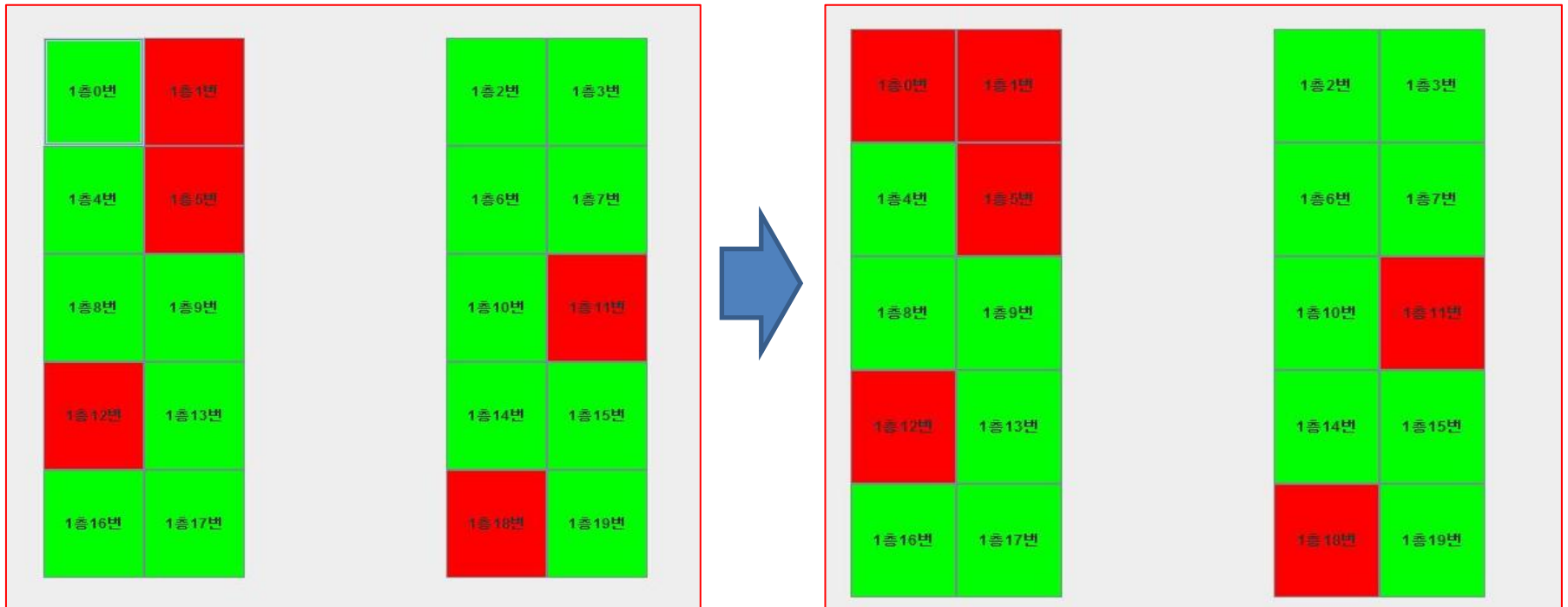
UserExit의 Exit Car 기능

경기11가1111

Exit Car

New bugs(cont.)

Program 재실행



Unit Testing

- Test case
login()

```
public class Admin_testLogin {  
  
    ParkingArea pa;  
    Admin admin;  
  
    @Before  
    public void init(){  
        pa = new ParkingArea();  
        admin = new Admin(pa);  
    }  
  
    @Test  
    public void login_test_rightpwd(){  
        assertTrue(admin.login("1234"));  
    }  
  
    @Test  
    public void login_test_wrongpwd(){  
        assertFalse(admin.login("123"));  
    }  
  
    @Test  
    public void login_test_emptypwd(){  
        assertFalse(admin.login(null));  
    }  
}
```

Unit Testing(cont.)

- Test case
changePW()

```
public class Admin_testChangePW {  
  
    ParkingArea pa;  
    Admin admin;  
  
    @Before  
    public void init(){  
        pa = new ParkingArea();  
        admin = new Admin(pa);  
    }  
  
    @Test  
    public void changepw_test() {  
        admin.changePW("123");  
        assertEquals("123", admin.adminPW);  
    }  
  
}
```

Unit Testing(cont.)

- Test case
 - LoadPath()
 - LoadComplexity()
 - LoadPermit()

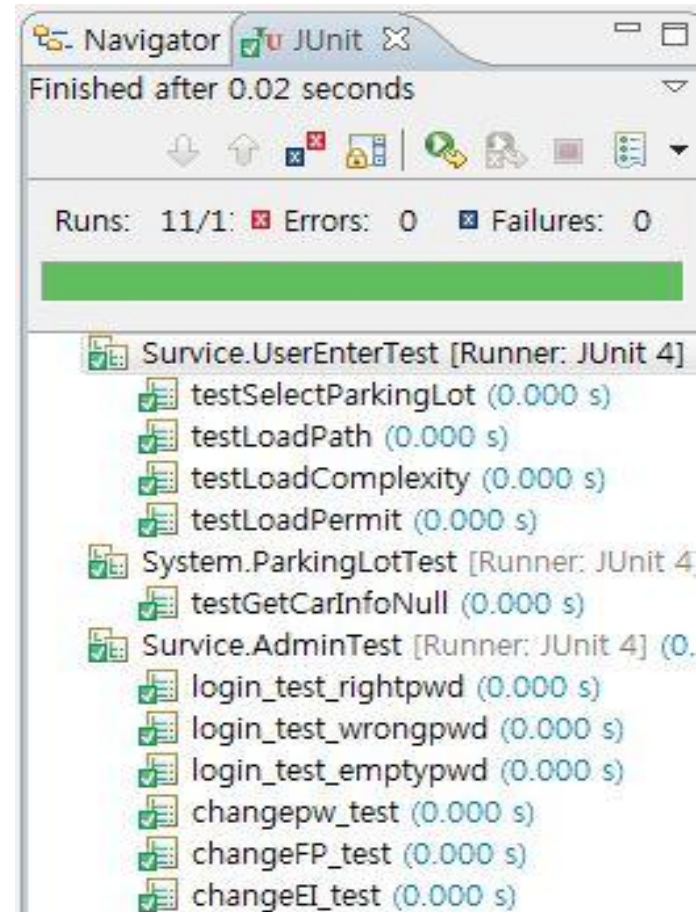
```
@Test
public void testLoadPath() {
    String result;
    result=ue.loadPath();
    Assert.assertEquals("71|61|51|41|31|21",result);
}

@Test
public void testLoadComplexity() {
    int result=ue.loadComplexity();
    Assert.assertEquals(0,result);
}

@Test
public void testLoadPermit() {
    String result;
    result=ue.loadPath();
    Assert.assertEquals("71|61|51|41|31|21",result);
}
}
```

Unit Testing(cont.)

- JUnit Test results



Unit Testing(cont.)

- Test Report

Requirement Coverage Report

Requirement Coverage Summary

Summary (9)	9 (100%)
-------------	----------

Number of Requirements	9
Unique Test Methods	11
Requirements:Test Methods Ratio	1:1
Missing Test Methods	None
Unmapped Test Methods	None

Requirement Coverage Details

Sr#	Category	Coverage
1.	UserEnter창 (2)	2 (100%)
2.	ParkingLot (1)	1 (100%)
3.	Admin창 (2)	2 (100%)

III. 2nd Testing - Team4

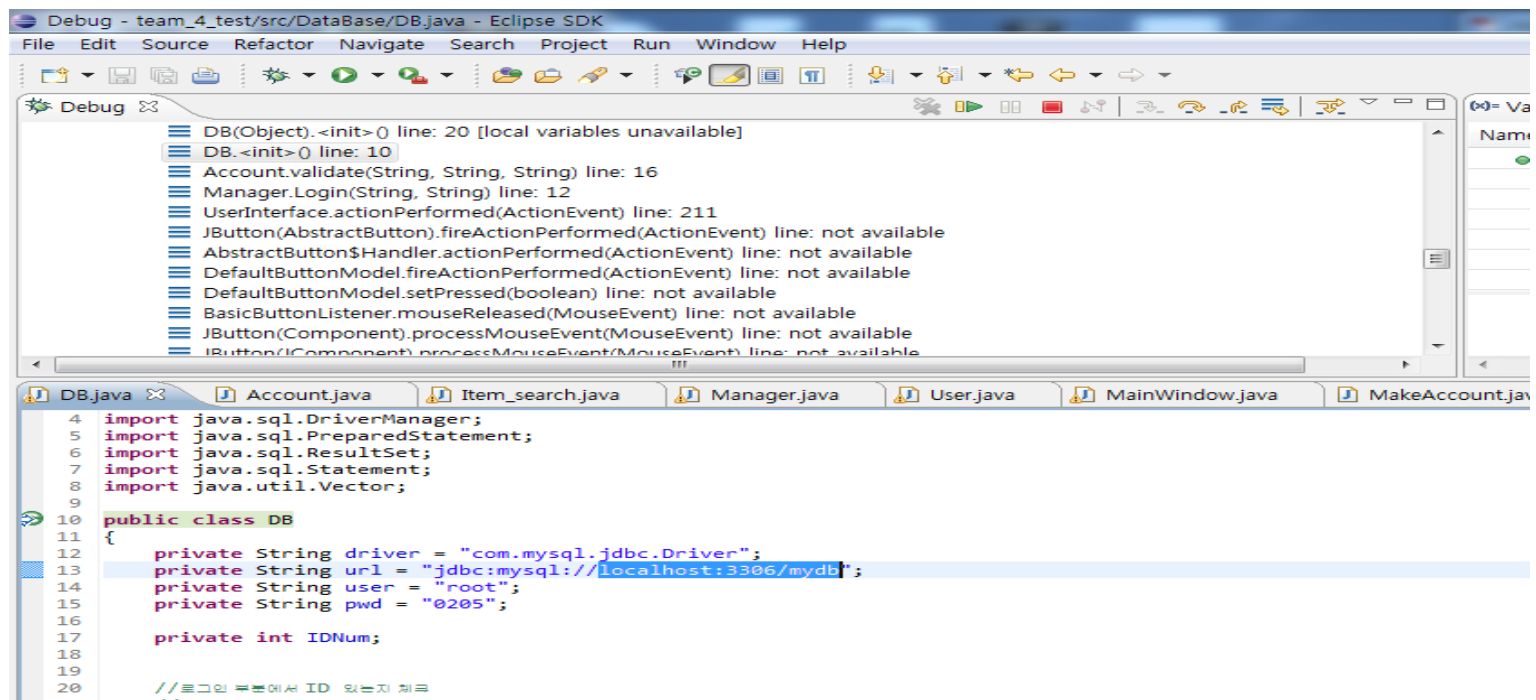
1. 1st testing feed-back
2. Unit Testing

1st testing feed-back

- Errors & Bugs

- mysql-connector-java-5.1.18-bin.jar 파일 추가해주었으나 부가설명이 없어 검증 팀이 따로 조사하여 local database 구축
- account 생성 및 삭제는 되지만 MySQL DB 연동 X
- 요청사항으로 자세한 실습환경 문의했으나 E-mail 답장 받지 못함
- 모델링/검증 팀간 소통 delay 및 부재로 테스트 실패

1st testing feed-back



```
Debug - team_4_test/src/DataBase/DB.java - Eclipse SDK
File Edit Source Refactor Navigate Search Project Run Window Help

Debug
DB(Object).<init>() line: 20 [local variables unavailable]
DB.<init>() line: 10
Account.validate(String, String, String) line: 16
Manager.Login(String, String) line: 12
UserInterface.actionPerformed(ActionEvent) line: 211
JButton(AbstractButton).fireActionPerformed(ActionEvent) line: not available
AbstractButton$Handler.actionPerformed(ActionEvent) line: not available
DefaultButtonModel.fireActionPerformed(ActionEvent) line: not available
DefaultButtonModel.setPressed(boolean) line: not available
BasicButtonListener.mouseReleased(MouseEvent) line: not available
JButton(Component).processMouseEvent(MouseEvent) line: not available
JButton(Component).processMouseEvent(MouseEvent) line: not available

DB.java
4 import java.sql.DriverManager;
5 import java.sql.PreparedStatement;
6 import java.sql.ResultSet;
7 import java.sql.Statement;
8 import java.util.Vector;
9
10 public class DB
11 {
12     private String driver = "com.mysql.jdbc.Driver";
13     private String url = "jdbc:mysql://localhost:3306/mydb";
14     private String user = "root";
15     private String pwd = "0205";
16
17     private int IDNum;
18
19
20     //프로그래밍 ==에서 ID 있는지 체크
21     ...
```

- 디버깅 결과 모델링 팀이 개발환경 localhost로 설정하고 이를 명시하지 않아 결과 확인이 늦어짐(MySQL 연동 설명 필요)

A large, abstract teal graphic on the left side of the slide, consisting of several overlapping, curved, semi-transparent shapes that create a sense of depth and movement. The background is a dark, solid color.

Thank you

by. Team 1