CODEPRO

Some of the salient features

- Static code analysis
- Defect detection, repair and reporting
- Automated JUnit test
- Mock Objects support
- JUnit Testing for Spring, Struts, JSF and EJB frameworks Error/Warning/Info can be changed for every item.
- Unnecessary Import
- Duplicate Import
- Empty Try or Catch Statements
- Comparison of strings using ==
- Float Comparisons
- JUnit test editor
- Analysis and reporting for duplicate code, dead code and dependencies
- Code metrics with drilldown & triggers
- Code coverage analysis

Project 1: Bus

| Problems identified by the Tool| Actual Errors | False Alarms | Justify | |---|---|---|

| 13xDuplicate Import Declaration | No | Yes| They are not errors, just warning of a good programming practice |

 \mid 12Empty Catch Clause \mid No \mid Yes \mid This rule finds places where an exception is caught and nothing is done. It can be configured to allow the existence of a comment to substitute for actual Java code.

| 7xImport of implicit package| No| Yes | This audit rule checks to ensure that none of the import declarations imports from a package that is implicitly imported (either java.lang or the package containing the compilation unit being audited). |

| Unnecessary import declarations|No | Yes|There should not be imports for types or packages that are not referenced. | |

False Positive: 22

True Positive: 0

Precision: 0

Project 4

| Problems identified by the Tool| Actual Errors | False Alarms | Justify |

|---|---|

|5 x caught exception not logged| No | Yes| An exception has been caught but not logged.|

False Positive: 5; *True Positive*: 0 Precision: 0

FindBugs

Project 1

| Problems identified by the Tool| Actual Errors | False Alarms | Justify |

|---|---|

| Method names start with upper case letter * 6| No | Yes | Methods are expected to have an Uppercase start|

|Empty field * 4 | Yes| No | An empty field can cause serious void errors |

|Reading protected field * 1 | Yes | No | Reading of protected field is a severe error which results in non execution of program|

| Use of static classes| No | No| This is just a programming paradigm to avoid using static classes and go fully OOP |

True Positive: 5 False Positive: 6

Precision: 5/11 = 0.45

Project 4

| Problems identified by the Tool| Actual Errors |False Alarms |Justify | |---|---|---|

This tool was unable to find any errors in the code.

ved to a type	Employee.ja	⁄a /Jojo	/src line 93
AddEntry.java	/Jojo/src	line 172	Java
AddEntry.java	/Jojo/src	line 211	Java
AddEntry.java	/Jojo/src	line 261	Java
Booking_report.	java /Jojo/sr	c line	95 Java
Booking_report.	java /Jojo/sr	c line	114 Java
	5		
Bus_Details.jav	a /Jojo/sr	c line	100 Java
	3		
Bus Details.iav	a /Joio/sr	c line	126 Java
	, ,		
Employee.iava	/Joio/src	line 85 J	ava Problem
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p 107 001 70.10.	, 5 5 5 , 5 . 5		3 5. 7 5.
Main iava /lo	io/src line	78 Java	Problem
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nemoser . java	, 50 ,0/ 51 C	1110 130	Java
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Connect cannot be resolved PASS.java /Jojo/s Connect cannot be resolved Receipt.java /Jo Connect cannot be resolved Schedule.java /Jo	rc line 73 Java Problem rc line 169 Java Problem jo/src line 83 Java Problem jo/src line 168 Java
Problem Connect cannot be resolved Schedule.java /Jo Problem	jo/src line 245 Java
	jo/src line 258 Java
Connect cannot be resolved Schedule.java /Jo Problem	jo/src line 273 Java
Connect cannot be resolved Schedule.java /Jo Problem	jo/src line 294 Java
Problem	jo/src line 327 Java
Connect cannot be resolved Scheduling_report.jo	-
Connect cannot be resolved Scheduling_report.j	-
Connect cannot be resolved Show_schedules.java Problem	/Jojo/src line 75 Java
Connect cannot be resolved Show_schedules.java	/Jojo/src line 81 Java
Problem DateButton cannot be resolved to a type AddEntr	y.java /Jojo/src line 65
Java Problem	y.java /30j0/310 Effic 03
DateButton cannot be resolved to a type AddEntr	y.java /Jojo/src line 67
Java Problem	
DateButton cannot be resolved to a type AddEntry Java Problem	y.java /Jojo/src line 69
DateButton cannot be resolved to a type AddEntr	y.java /Jojo/src line 99
Java Problem	
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Java Problem DateButton cannot be resolved to a type AddEntr	y.java /Jojo/src line 100
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DateButton cannot be resolved to a type AddEntry Java Problem	y.java /Jojo/src line 101
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DateButton cannot be resolved to a type AddEntr	y.java /Jojo/src line 103
Java Problem	
DateButton cannot be resolved to a type AddEntry Java Problem	y.java /Jojo/src line 104
DateButton cannot be resolved to a type AddEntr	y.java /Jojo/src line 116
Java Problem	
DateButton cannot be resolved to a type AddEntry Java Problem	y.java /Jojo/src line 120
DateButton cannot be resolved to a type AddEntry	y.java /Jojo/src line 122

Java Problem DateButton cannot be resolved to a type	AddEntry.java	/Jojo/src	line 213
Java Problem		, , , , , , , , , ,	
DateButton cannot be resolved to a type	AddEntry.java	/Jojo/src	line 213
Java Problem			
DateButton cannot be resolved to a type	AddEntry.java	/Jojo/src	line 213
Java Problem			
DateButton cannot be resolved to a type	AddEntry.java	/Jojo/src	line 237
Java Problem	Cabadula daya	/loio/sus	1ina 62
DateButton cannot be resolved to a type Java Problem	Schedute. Java	/Jojo/src	line 63
DateButton cannot be resolved to a type	Schedule iava	/Jojo/src	line 109
Java Problem	Seriedate. Java	, 50 , 0, 5, 6	22116 205
DateButton cannot be resolved to a type	Schedule.java	/Jojo/src	line 109
Java Problem	J	J	
DateButton cannot be resolved to a type	Schedule.java	/Jojo/src	line 147
Java Problem			
DateButton cannot be resolved to a type	Schedule.java	/Jojo/src	line 292
Java Problem			
DateButton cannot be resolved to a type	Schedule.java	/Jojo/src	line 292
Java Problem	Cabadula iava	/loio/sus	line 329
DateButton cannot be resolved to a type Java Problem	Schedute. Java	/Jojo/src	Line 329
DateButton cannot be resolved to a type	Schedule iava	/Jojo/src	line 331
Java Problem	Seriedate. Java	, 50 , 5, 5, 6	22116 332
employee_report cannot be resolved to a	type Employe	e.java /Jo	jo/src
line 111 Java Problem		_	-
LoginScreen cannot be resolved to a typ	e AddEntry.ja	va /Jojo/s	rc line
278 Java Problem	, ,	_	
278 Java Problem LoginScreen cannot be resolved to a typ	, ,	_	
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278 Java Problem LoginScreen cannot be resolved to a typ 188 Java Problem LoginScreen cannot be resolved to a typ Java Problem LoginScreen cannot be resolved to a typ	e Employee.ja e Main.java	va /Jojo/s	rc line line 250
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278 Java Problem LoginScreen cannot be resolved to a typ 188 Java Problem LoginScreen cannot be resolved to a typ Java Problem LoginScreen cannot be resolved to a typ Java Problem LoginScreen cannot be resolved to a typ Java Problem LoginScreen cannot be resolved to a typ line 172 Java Problem MainMenu cannot be resolved to a type Java Problem MainMenu cannot be resolved to a type Java Problem NewEntry cannot be resolved to a type	e Employee.ja e Main.java e PASS.java e Show_schedu NewUser.java	va /Jojo/s /Jojo/src /Jojo/src les.java /Jo /Jojo/src	rc line line 250 line 192 jo/src line 159 line 286
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Payment cannot be resolved to a type
                                        Receipt.java
                                                        /Jojo/src
                                                                    line 120
Java Problem
Payment cannot be resolved to a type
                                        Receipt.java
                                                        /Jojo/src
                                                                    line 121
Java Problem
Payment cannot be resolved to a type
                                        Receipt.java
                                                        /Jojo/src
                                                                    line 122
Java Problem
Up_date_Pass cannot be resolved to a type
                                            PASS.java
                                                        /Jojo/src
                                                                    line 101
Java Problem
UpdateEntry cannot be resolved to a type
                                            Main.java
                                                        /Jojo/src
                                                                    line 112
Java Problem
Build path specifies execution environment JavaSE-1.7. There are no JREs
installed in the workspace that are strictly compatible with this environment.
Joio
            Build path JRE System Library Problem
JComboBox is a raw type. References to generic type JComboBox<E> should be
parameterized
                 Booking_report.java /Jojo/src
                                                 line 26 Java Problem
JComboBox is a raw type. References to generic type JComboBox<E> should be
                                                 line 31 Java Problem
parameterized
                 Bus_Details.java
                                     /Jojo/src
JComboBox is a raw type. References to generic type JComboBox<E> should be
parameterized
                 NewUser.java
                                 /Jojo/src
                                             line 43 Java Problem
JComboBox is a raw type. References to generic type JComboBox<E> should be
                                             line 59 Java Problem
parameterized
                 NewUser.java
                                 /Jojo/src
JComboBox is a raw type. References to generic type JComboBox<E> should be
parameterized
                 Schedule.java
                                 /Jojo/src
                                             line 37 Java Problem
JComboBox is a raw type. References to generic type JComboBox<E> should be
                 Schedule.java
                                             line 39 Java Problem
parameterized
                                 /Jojo/src
JComboBox is a raw type. References to generic type JComboBox<E> should be
parameterized
                 Schedule.java
                                 /Jojo/src
                                             line 41 Java Problem
JComboBox is a raw type. References to generic type JComboBox<E> should be
parameterized
                 Schedule.java
                                 /Jojo/src
                                             line 43 Java Problem
JComboBox is a raw type. References to generic type JComboBox<E> should be
parameterized
                 Schedule.java
                                 /Jojo/src
                                             line 45 Java Problem
JComboBox is a raw type. References to generic type JComboBox<E> should be
parameterized
                 Schedule.java
                                 /Jojo/src
                                             line 47 Java Problem
JComboBox is a raw type. References to generic type JComboBox<E> should be
                                             line 49 Java Problem
parameterized
                 Schedule.java
                                 /Jojo/src
JComboBox is a raw type. References to generic type JComboBox<E> should be
                                             line 97 Java Problem
parameterized
                 Schedule.java
                                 /Jojo/src
JComboBox is a raw type. References to generic type JComboBox<E> should be
parameterized
                 Schedule.java
                                 /Jojo/src
                                             line 98 Java Problem
JComboBox is a raw type. References to generic type JComboBox<E> should be
                                             line 99 Java Problem
parameterized
                 Schedule.java
                                 /Jojo/src
JComboBox is a raw type. References to generic type JComboBox<E> should be
parameterized
                 Schedule.java
                                 /Jojo/src
                                             line 100
                                                         Java Problem
JComboBox is a raw type. References to generic type JComboBox<E> should be
parameterized
                 Schedule.java
                                 /Jojo/src
                                             line 101
                                                         Java Problem
JComboBox is a raw type. References to generic type JComboBox<E> should be
parameterized
                 Schedule.java
                                 /Jojo/src
                                             line 102
                                                         Java Problem
JComboBox is a raw type. References to generic type JComboBox<E> should be
                 Schedule.java
                                             line 104
parameterized
                                 /Jojo/src
                                                         Java Problem
JComboBox is a raw type. References to generic type JComboBox<E> should be
                 Scheduling_report.java /Jojo/src
                                                     line 25 Java Problem
parameterized
Read of unwritten public or protected field imageIcon in new Receipt$1(Receipt)
```

```
[Troubling(14), Normal confidence] Receipt.java
                                                  /Jojo/src
                                                               line 100
FindBugs Problem (Troubling)
The import java.awt is never used
                                  Receipt.java
                                                   /Jojo/src
                                                               line 8 Java
Problem
The import java.awt.event is never used Receipt.java
                                                       /Jojo/src
                                                                   line 9
Java Problem
The import java.sql is never used
                                  Receipt.java
                                                   /Jojo/src
                                                               line 10 Java
Problem
The import java.text is never used Receipt.java
                                                   /Jojo/src
                                                               line 12 Java
Problem
The import java.util.Date is never used Receipt.java
                                                       /Jojo/src
                                                                  line 13
Java Problem
The import javax.swing is never used
                                       AddEntry.java
                                                       /Jojo/src
                                                                   line 7
Java Problem
The import javax.swing is never used
                                       Employee.java
                                                       /Jojo/src
                                                                   line 7
Java Problem
The import javax.swing is never used
                                       Main.java /Jojo/src line 7 Java
Problem
                                       NewUser.java
The import javax.swing is never used
                                                       /Jojo/src
                                                                   line 7
Java Problem
The import javax.swing is never used
                                       PASS.java /Jojo/src line 7 Java
Problem
The import javax.swing is never used
                                       Receipt.java
                                                       /Jojo/src
                                                                   line 11
Java Problem
The import javax.swing is never used
                                       Schedule.java
                                                       /Jojo/src
                                                                   line 7
Java Problem
The import javax.swing is never used
                                       Show_schedules.java /Jojo/src
                                                                       line 7
Java Problem
The method getText() from the type JPasswordField is deprecated NewUser.java
                       Java Problem
/Jojo/src
          line 120
The method getText() from the type JPasswordField is deprecated NewUser.java
/Joio/src
           line 120
                       Java Problem
The method getText() from the type JPasswordField is deprecated NewUser.java
/Jojo/src
           line 125
                       Java Problem
The method getText() from the type JPasswordField is deprecated NewUser.java
/Jojo/src
           line 125
                       Java Problem
The method getText() from the type JPasswordField is deprecated NewUser.java
                       Java Problem
/Jojo/src
           line 130
The method getText() from the type JPasswordField is deprecated NewUser.java
                       Java Problem
/Jojo/src
           line 130
The method getText() from the type JPasswordField is deprecated NewUser.java
/Jojo/src
           line 138
                       Java Problem
The serializable class does not declare a static final serialVersionUID field
of type long Booking_report.java /Jojo/src
                                           line 68 Java Problem
The serializable class does not declare a static final serialVersionUID field
of type long Bus_Details.java
                                /Jojo/src
                                          line 73 Java Problem
The serializable class does not declare a static final serialVersionUID field
of type long Receipt.java
                            /Jojo/src
                                        line 99 Java Problem
The serializable class does not declare a static final serialVersionUID field
of type long Scheduling_report.java /Jojo/src
                                               line 67 Java Problem
The serializable class AbstractTable does not declare a static final
```

serialVersionUID field of type long Employee.java /Jojo/src line 150 Java Problem

The serializable class AbstractTable does not declare a static final serialVersionUID field of type long Main.java /Jojo/src line 142 Java Problem

The serializable class AbstractTable does not declare a static final serialVersionUID field of type long PASS.java /Jojo/src line 131 Java Problem

The serializable class AbstractTable does not declare a static final serialVersionUID field of type long Show_schedules.java /Jojo/src line 134 Java Problem

The serializable class AddEntry does not declare a static final serialVersionUID field of type long AddEntry.java /Jojo/src line 14 Java Problem

The serializable class Booking_report does not declare a static final serialVersionUID field of type long Booking_report.java /Jojo/src line 11 Java Problem

The serializable class Bus_Details does not declare a static final serialVersionUID field of type long Bus_Details.java /Jojo/src line 10 Java Problem

The serializable class Employee does not declare a static final serialVersionUID field of type long Employee.java /Jojo/src line 14 Java Problem

The serializable class Main does not declare a static final serialVersionUID line 16 Java Problem field of type long Main.java /Jojo/src The serializable class NewUser does not declare a static final serialVersionUID field of type long NewUser.java /Jojo/src line 14 Java Problem The serializable class PASS does not declare a static final serialVersionUID field of type long PASS.java /Jojo/src line 15 Java Problem The serializable class Receipt does not declare a static final serialVersionUID /Jojo/src field of type long Receipt.java line 16 Java Problem The serializable class Schedule does not declare a static final serialVersionUID field of type long Schedule.java /Jojo/src line 16 Java Problem

The serializable class Scheduling_report does not declare a static final serialVersionUID field of type long Scheduling_report.java /Jojo/src line 10 Java Problem

The serializable class Show_schedules does not declare a static final serialVersionUID field of type long Show_schedules.java /Jojo/src line 14 Java Problem

The value of the field Booking_report.dbcon is not used Booking_report.java/Jojo/src line 32 Java Problem

The value of the field Bus_Details.dbcon is not used Bus_Details.java/Jojo/src line 37 Java Problem

The value of the field Employee.AddNew is not used Employee.java /Jojo/srcline 41 Java Problem

The value of the field Employee.Clear is not used Employee.java /Jojo/srcline 49 Java Problem

The value of the field Employee.dbconn is not used Employee.java /Jojo/srcline 59 Java Problem

The value of the field Employee.Exit is not used Employee.java /Jojo/srcline 51 Java Problem

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The value of the field Employee.info is not used
                                                   Employee.java /Jojo/src
line 61 Java Problem
The value of the field Employee.jButton3 is not used
                                                       Employee.java
/Jojo/src line 35 Java Problem
The value of the field Employee.Remove is not used Employee.java
                                                                  /Jojo/src
line 45 Java Problem
The value of the field Employee.rowCnt is not used Employee.java
                                                                  /Jojo/src
line 53 Java Problem
The value of the field Employee.Search is not used Employee.java
                                                                  /Jojo/src
line 47 Java Problem
The value of the field Employee.Update is not used Employee.java
                                                                 /Jojo/src
line 43 Java Problem
The value of the field Main.dbconn is not used Main.java
                                                          /Jojo/src
                                                                      line 49
Java Problem
The value of the field Main.info is not used
                                               Main.java
                                                          /Jojo/src
                                                                      line 51
Java Problem
The value of the field Main.rowCnt is not used Main.java
                                                          /Jojo/src
                                                                      line 43
Java Problem
The value of the field Main.txtInfo is not used Main.java
                                                          /Jojo/src
                                                                      line 47
Java Problem
The value of the field PASS.dbconn is not used PASS.java
                                                          /Jojo/src
                                                                       line 46
Java Problem
The value of the field PASS.info is not used
                                               PASS.java
                                                          /Jojo/src
                                                                      line 48
Java Problem
The value of the field PASS.rowCnt is not used PASS.java
                                                          /Jojo/src
                                                                      line 40
Java Problem
The value of the field PASS.txtInfo is not used PASS.java
                                                         /Jojo/src
                                                                      line 44
Java Problem
The value of the field Receipt.dbcon is not used
                                                   Receipt.java
                                                                   /Jojo/src
line 43 Java Problem
The value of the field Scheduling_report.dbcon is not used
Scheduling_report.java /Jojo/src line 31 Java Problem
The value of the field Show_schedules.AddNew is not used
                                                           Show_schedules.java
/Jojo/src line 35 Java Problem
The value of the field Show_schedules.Clear is not used Show_schedules.java
/Jojo/src
          line 43 Java Problem
The value of the field Show_schedules.dbconn is not used
                                                           Show_schedules.java
/Jojo/src line 53 Java Problem
The value of the field Show_schedules.Exit is not used Show_schedules.java
          line 45 Java Problem
/Jojo/src
The value of the field Show_schedules.jButton2 is not used Show_schedules.java
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The value of the field Show_schedules.Remove is not used
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                                                           Show_schedules.java
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The value of the field Show_schedules.Update is not used
                                                          Show_schedules.java
/Jojo/src line 37 Java Problem
Type safety: The method addItem(Object) belongs to the raw type JComboBox.
```

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References to generic type JComboBox<E> should be parameterized NewUser.java
           line 75 Java Problem
/Jojo/src
Type safety: The method addItem(Object) belongs to the raw type JComboBox.
References to generic type JComboBox<E> should be parameterized NewUser.java
           line 76 Java Problem
/Jojo/src
Type safety: The method addItem(Object) belongs to the raw type JComboBox.
References to generic type JComboBox<E> should be parameterized NewUser.java
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            line 77 Java Problem
Type safety: The method addItem(Object) belongs to the raw type JComboBox.
References to generic type JComboBox<E> should be parameterized Schedule.java
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                        Java Problem
Type safety: The method addItem(Object) belongs to the raw type JComboBox.
References to generic type JComboBox<E> should be parameterized Schedule.java
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                        Java Problem
Type safety: The method addItem(Object) belongs to the raw type JComboBox.
References to generic type JComboBox<E> should be parameterized Schedule.java
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Type safety: The method addItem(Object) belongs to the raw type JComboBox.
References to generic type JComboBox<E> should be parameterized Schedule.java
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                        Java Problem
Type safety: The method addItem(Object) belongs to the raw type JComboBox.
References to generic type JComboBox<E> should be parameterized Schedule.java
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                        Java Problem
Type safety: The method addItem(Object) belongs to the raw type JComboBox.
References to generic type JComboBox<E> should be parameterized Schedule.java
                        Java Problem
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Type safety: The method addItem(Object) belongs to the raw type JComboBox.
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                        Java Problem
Type safety: The method addItem(Object) belongs to the raw type JComboBox.
References to generic type JComboBox<E> should be parameterized Schedule.java
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                        Java Problem
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Type safety: The method addItem(Object) belongs to the raw type JComboBox.
References to generic type JComboBox<E> should be parameterized Schedule.java
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                        Java Problem
Type safety: The method addItem(Object) belongs to the raw type JComboBox.
References to generic type JComboBox<E> should be parameterized Schedule.java
           line 248
                        Java Problem
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Type safety: The method addItem(Object) belongs to the raw type JComboBox.
References to generic type JComboBox<E> should be parameterized Schedule.java
           line 260
                        Java Problem
Type safety: The method addItem(Object) belongs to the raw type JComboBox.
References to generic type JComboBox<E> should be parameterized Schedule.java
           line 261
                        Java Problem
Type safety: The method addItem(Object) belongs to the raw type JComboBox.
References to generic type JComboBox<E> should be parameterized Schedule.java
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                        Java Problem
Type safety: The method addItem(Object) belongs to the raw type JComboBox.
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            line 276
                        Java Problem
Unwritten field: Employee.jTable [Troubling(12), Normal confidence]
               /Jojo/src line 133
                                     FindBugs Problem (Troubling)
Employee.java
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Unwritten field: Main.jTable [Troubling(12), Normal confidence] Main.java

/Jojo/src line 125 FindBugs Problem (Troubling)

Unwritten field: PASS.jTable [Troubling(12), Normal confidence] PASS.java

/Jojo/src line 114 FindBugs Problem (Troubling)

Unwritten field: Show_schedules.jTable [Troubling(12), Normal confidence] Show_schedules.java /Jojo/src line 117 FindBugs Problem (Troubling)