

#### 資訊人才軟體培育推廣計畫

# Java安全程式設計

逢甲大學 資訊工程系 陳錫民 助理教授 2016年8月



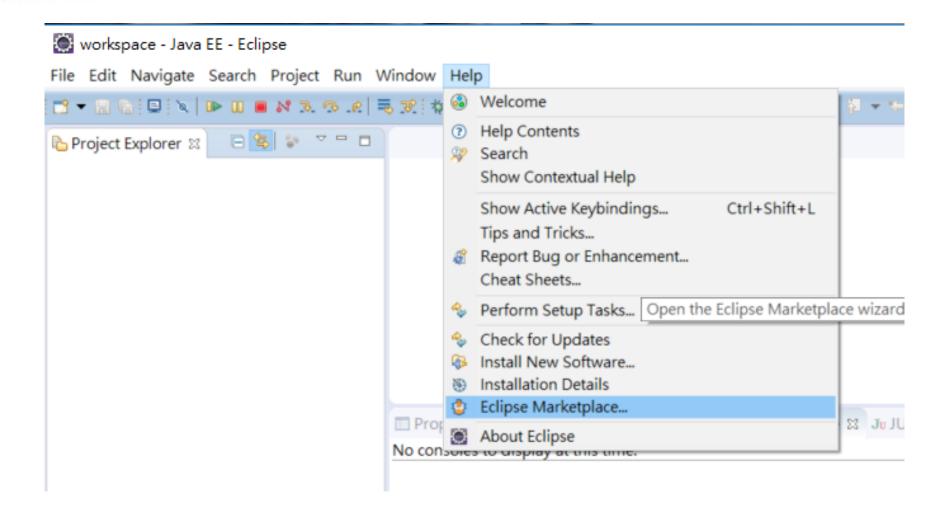
#### **FindBugs for Eclipse**

- □靜態程式碼分析工具
  - ▶偵測潛在的Bug、安全缺陷與不良的程式撰寫方式
- □支援Java

- Open-source Eclipse plugin
- □系統需求: Eclipse

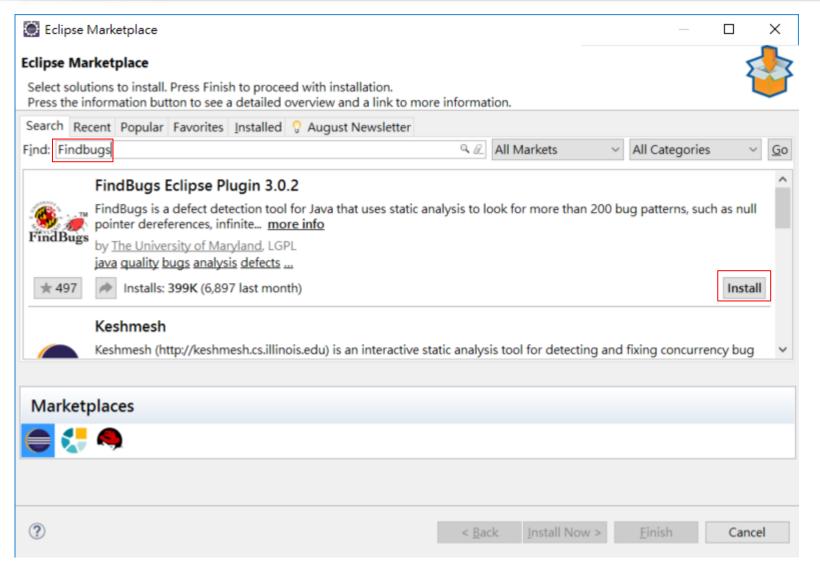


#### 安裝FindBugs for Eclipse<sub>1</sub>



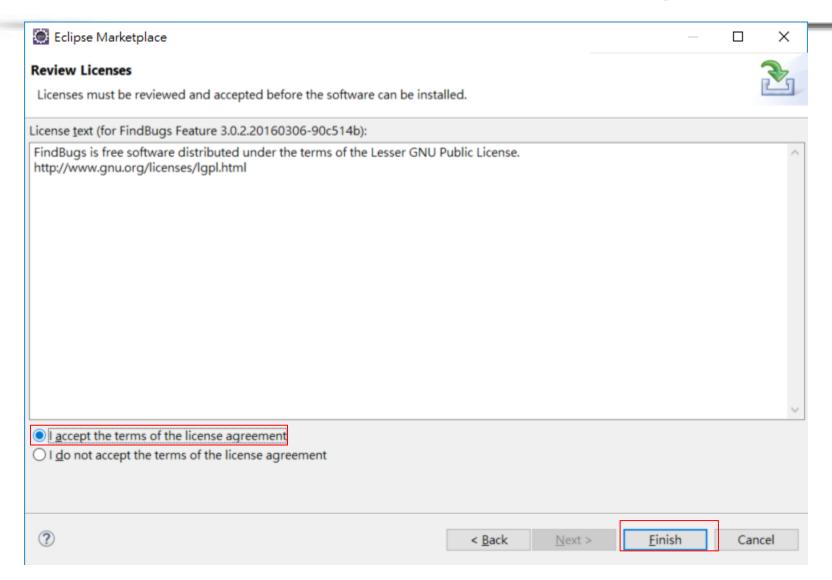


## 安裝FindBugs for Eclipse<sub>2</sub>



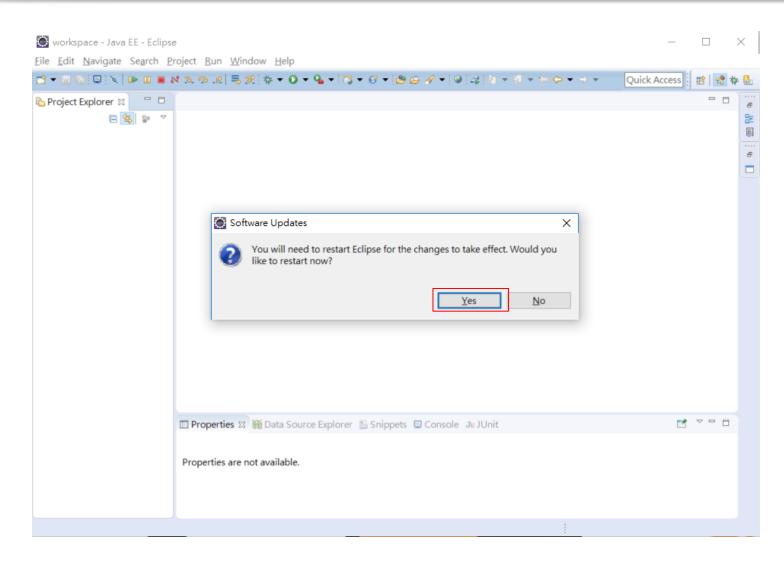


## 安裝FindBugs for Eclipse<sub>3</sub>



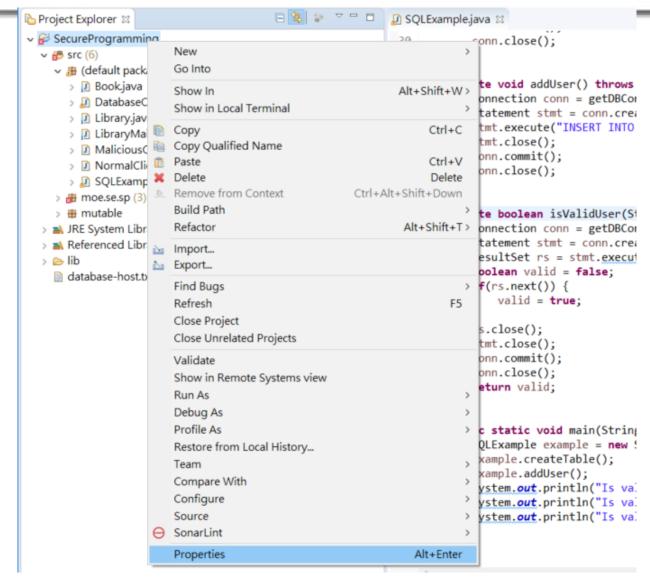


## 安裝FindBugs for Eclipse<sub>4</sub>



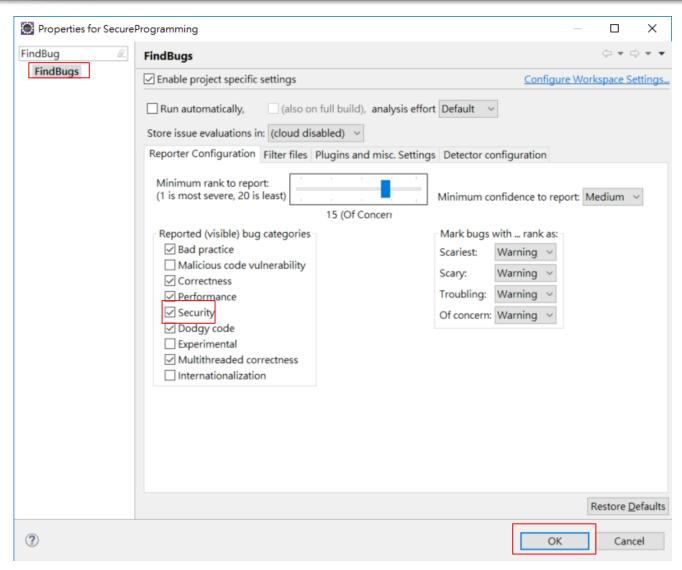


## 設定專案FindBugs<sub>1</sub>



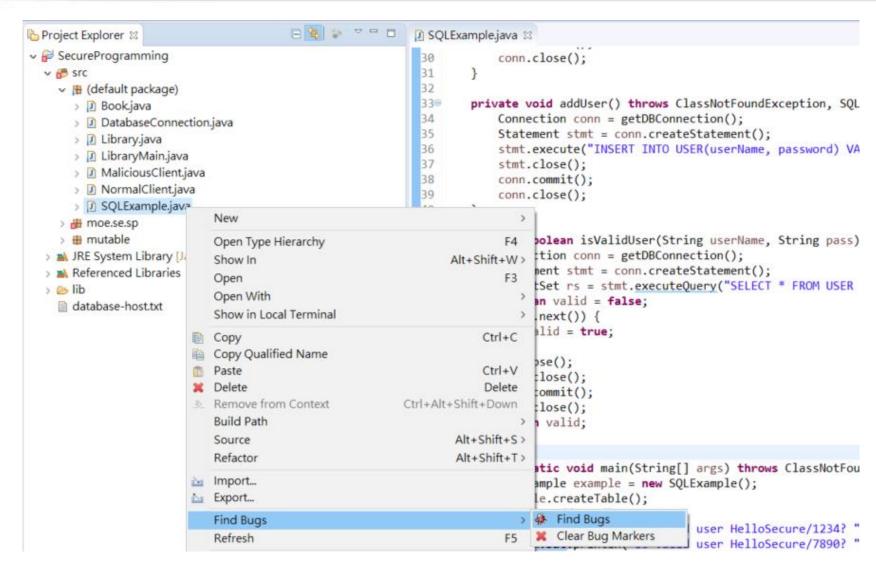


## 設定專案FindBugs<sub>2</sub>





#### 執行程式碼分析



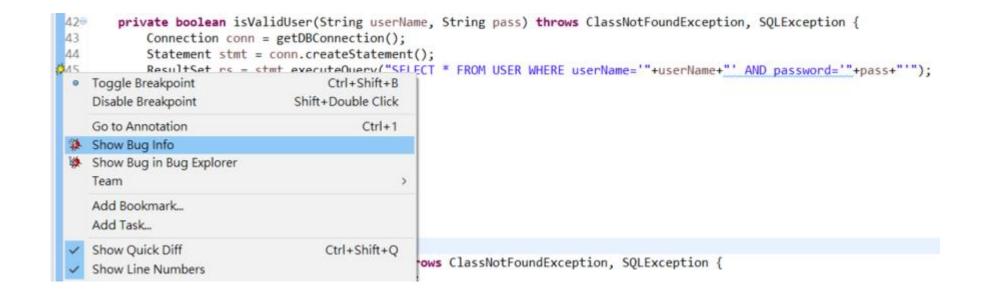


#### 查看分析結果

```
conn.close();
31
32
33⊜
        private void addUser() throws ClassNotFoundException, SQLException {
34
            Connection conn = getDBConnection();
35
            Statement stmt = conn.createStatement();
36
            stmt.execute("INSERT INTO USER(userName, password) VALUES ('"+TEST_USER+"', '"+TEST_PASS+"')");
37
            stmt.close();
38
            conn.commit();
39
            conn.close();
40
41
429
        private boolean isValidUser(String userName, String pass) throws ClassNotFoundException, SQLException {
43
            Connection conn = getDBConnection();
            Statement stmt = conn.createStatement();
    Multiple markers at this line
      - SQLExample.isValidUser(String, String) passes a nonconstant String to an execute or addBatch method on an SQL statement [Troubling(10), High confidence]
      - Line breakpoint:SQLExample [line: 45] - isValidUser(String, String)
48
                valid = true;
49
50
            rs.close();
```



#### 查看缺陷詳細資訊1





#### 查看缺陷詳細資訊2

