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| **Project Name: Project 2: Voting System Agile Scrum Team#25** | |
| **Test Stage: Unit✓ System** | **Test Date: 12/13/2018** |
| **Test Case ID#: test\_data\_io** | **Name(s) of Testers: Yuanli Wang** |
| **Test Description:**  **This system test is designed to test data\_io class and its function**  **From /Project2/testing/unittesting/****Data\_IOTest.java, I will use testData\_IO(), testLoad\_data(), testSave\_resultString(), testSave\_resultStringString(), testSpecify\_path\_in(), testSpecify\_path\_out() functions.** |  |
| **Automated: yes\_\_\_ no ✓** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.** |
| **Results: Pass ✓ Fail\_\_\_\_\_\_\_\_** |  |
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| **Preconditions for Test:**  **The system that is used for testing must be CSELabs machines and user successfully access into the application system.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Go to the directory \Project2\testing\unittesting | null | null | null | go to the application directory |
| 2 | copy all file to \Project2\src\ | null | null | null | Copy unit test case |
| 3 | Compile java src with javac \*.java | null | null | null | compiling all existing java file |
| 4 | Run **Data\_IOTest**.java in java IDE | null | null | null | Run unit test program |
| 5 | See result in IDE | null | Test passed 6 of 6 tests | Test passed 6 of 6 tests | See result  There are totally 6 test cases in this file, so the test has all passed. |

**Post condition(s) for Test:**

The IDE will show that all test cases are passed.

**Project Name:**  The project #, name of your system, and the team#

**Test Stage:** Indicate whether it is a unit test or a system test.

**Test Date:**  The date the test was performed.

**Test Case ID#:**  A unique ID is required. Decide on a naming convention and use numbering. Example: Ballot\_Shuffle\_1

**Name(s) of Testers:** List the names of anyone involved in running this test case.

**Test Description:**  Describe briefly the test objective.

**Automated:**  Indicate if the test is completely automated or being checked manually. (If you have methods running the tests and checking results, select “yes”. If you are manually checking results, indicate manual by selecting the “no.”)

**Results:** Indicate if the test passed or failed.

**Step #:** You will be listing the test steps in order. This number is the step number in the process.

**Test Step Description:** Details of the test step.

**Test Data:** What the test data will be for this step. Be clear on what the input data will be. If using a specific file, be clear on the name.

**Expected Result:** What result are you expecting from the program component or system.

**Actual Result:** What result were returned based on the test.

**Post condition for Test:** What will be true after the test has been run? Has the state of the system changed in any way?

**Notes:** Comments and notesfor you and your team members.