**ACCEPTANCE TEST CASES FOR GRADING SYSTEM**

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*1. Test Case for Exiting System:*

**START STATE:** Querying databse, "輸入ID或 Q (結束使用)？" message displayed.

**INPUT:** "Q"

**OUTPUT:** None.

**RESULTING STATE:** Exiting System, "結束了" message displayed.

*2. Test Case for querying System's Databse:*

**START STATE:** Querying databse, "輸入ID或 Q (結束使用)？" message displayed.

**INPUT:** Student ID as an int, e.g. 962001051

NOTE: Student ID must exist inside system.

**OUTPUT:** Student's name, available command list.

**RESULTING STATE:** Querying ID's data, welcome message and allowed commands list displayed as below:

"Welcome 李威廷

輸入指令 1) G 顯示成績 (Grade)

2) R 顯示排名 (Rank)

3) A 顯示平均 (Average)

4) W更新配分 (Weight)

5) E 離開選單 (Exit)"

*3. Test Case for:*

*a."G"(Grades) command:*

**START STATE:** Querying ID's data.

**INPUT:** "G"

**OUTPUT:** List of student's grades.

**NOTES:** 1. Grades below 60 are displyed in red.

2. Exam names are defined as : "lab1", "lab2", "lab3", "mid-term" and "final exam" in order.

**RESULTING STATE:** Querying ID's data, grade list displayed as below:

"李威廷成績：lab1： 81

lab2： 32\*　註 低於60分需另外標記\*

lab3： 50\*　註 低於60分需另外標記\*

mid-term : 90　註 依英文用字 mid及 term 用 “-“ 連結為一字

final exam：93 註 依英文用字 final及 exam 為兩字

total grade : 81"

*and b. Exiting Querying database state after entering "G" command:*

**START STATE:** Querying ID's data, after showing grade list as above.

**INPUT1:** "E"

**OUTPUT1:** None.

**STATE2:** Querying database, "輸入ID或 Q (結束使用)？" message displayed.

**INPUT2:** "Q"

**OUTPUT2:** None.

**RESULTING STATE:** Exiting System, "結束了" message displayed.

*4. Test Case for:*

*a."R"(Rank) command:*

**START STATE:** Querying ID's data.

**INPUT:** "R"

**OUTPUT:** ID's rank.

**RESULTING STATE:** Querying ID's data, rank displayed as below:

"李威廷排名第22 (例:李陳張 totalGrade 分別為 86 86 83 則其rank為1 1 3)"

*and b. Exiting Querying database state after entering "G" command:*

**START STATE:** Querying ID's data, after showing grade list as above.

**INPUT1:** "E"

**OUTPUT1:** None.

**STATE2:** Querying database, "輸入ID或 Q (結束使用)？" message displayed.

**INPUT2:** "Q"

**OUTPUT2:** None.

**RESULTING STATE:** Exiting System, "結束了" message displayed.

*5. Test Case for:*

*a."W"(Weight) command:*

**START STATE:** Querying ID's data.

**INPUT:** "W"

**OUTPUT:** Weights for student ID grades.

**RESULTING STATE:** Modifying Weights, recursively enter int for each weight and confirm weights, followed by "Y" to confirm or "N" to drop, message below displayed:

"舊配分

lab1 10%

lab2 10%

lab3 10%

mid-term 30%

final exam 40%

輸入新配分

lab1 20

lab2 20

lab3 20

mid-term 20

final exam 20

請確認新配分

lab1 20%

lab2 20%

lab3 20%

mid-term 20%

final exam 20%"

*and b. Exiting Querying database state after entering "W" command:*

**START STATE:** Querying ID's data, after showing grade list as above.

**INPUT1:** "E"

**OUTPUT1:** None.

**STATE2:** Querying database, "輸入ID或 Q (結束使用)？" message displayed.

**INPUT2:** "Q"

**OUTPUT2:** None.

**RESULTING STATE:** Exiting System, "結束了" message displayed.

*6. Test Case for querying System's Databse with WRONG ID:*

**START STATE:** Querying databse, "輸入ID或 Q (結束使用)？" message displayed.

**INPUT:** Non-ID int, e.g. 123456789

NOTE: Student ID for this test case must not exist in System.

**OUTPUT:** None.

**RESULTING STATE:** Non-existent ID ERROR ellicited, error message displayed as below:

"ID錯了!

*7. Test case for incorrect command while Querying ID info:*

**START STATE:** Querying databse, "輸入ID或 Q (結束使用)？" message displayed.

**INPUT1:** Student ID as an int, e.g. 962001051

**OUTPUT1:** Student's name, available command list.

**STATE2:** Querying ID's data, welcome message and allowed commands list displayed as below:

"Welcome 李威廷

輸入指令 1) G 顯示成績 (Grade)

2) R 顯示排名 (Rank)

3) A 顯示平均 (Average)

4) W更新配分 (Weight)

5) E 離開選單 (Exit)"

**INPUT2:** Inexistent "K" command.

**OUTPUT2:** None.

**RESULTING STATE:** Non-existent command ERROR ellicited, error message displayed as below:

"指令錯了!"

8. Idea for new test case: error while entering weights OR error while confirming weights