**ACCEPTANCE TEST CASES FOR GRADING SYSTEM**

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*1. Test Case for Exiting System:*

**START STATE:** Querying database, " Enter your ID or ‘Q’ to quit:" message displayed.

**INPUT:** "Q"

**OUTPUT:** None.

**RESULTING STATE:** Exiting System, "Goodbye!" message displayed.

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

**START STATE:** Querying database, "Enter your ID or ‘Q’ to quit:" 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

Enter Command

(G)rade

(R)ank

(A)verage

(W)eight

(E)xit”

*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:

"Grades for 李威廷:

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, “Enter your ID or ‘Q’ to quit:” message displayed.

**INPUT2:** "Q"

**OUTPUT2:** None.

**RESULTING STATE:** Exiting System, "Goodbye!" 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:

"Rank for李威廷: 22"

*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, “Enter your ID or ‘Q’ to quit:” message displayed.

**INPUT2:** "Q"

**OUTPUT2:** None.

**RESULTING STATE:** Exiting System, “Enter your ID or ‘Q’ to quit:” 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:

"Current weights for each grade:

lab1 10%

lab2 10%

lab3 10%

mid-term 30%

final exam 40%

Enter new weights (in percentage):

lab1 20

lab2 20

lab3 20

mid-term 20

final exam 20

Confirm the new weights

lab1 20%

lab2 20%

lab3 20%

mid-term 20%

final exam 20%"

Save? (Y/N):”

*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, “Enter your ID or ‘Q’ to quit:” message displayed.

**INPUT2:** "Q"

**OUTPUT2:** None.

**RESULTING STATE:** Exiting System, “Enter your ID or ‘Q’ to quit:” message displayed.

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

**START STATE:** Querying database, “Enter your ID or ‘Q’ to quit:” 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:

"No such ID in the system!!

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

**START STATE:** Querying database, “Enter your ID or ‘Q’ to quit:” 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

Enter Command

(G)rade

(R)ank

(A)verage

(W)eight

(E)xit”

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

**OUTPUT2:** None.

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

"No such command in the system!"

*8. Test Case for:*

*a."A"(Average) command:*

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

**INPUT:** "A"

**OUTPUT:** Average of the grades of all students for each exam.

**RESULTING STATE:** Displaying class average for each exam and for the totl grade, as below:

" Average grades for the class:

lab1: 90

lab2: 88

lab3: 89

midTerm: 90

finalExam: 90

totalGrade: 90

”

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

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

**INPUT1:** "E"

**OUTPUT1:** None.

**STATE2:** Querying database, “Enter your ID or ‘Q’ to quit:” message displayed.

**INPUT2:** "Q"

**OUTPUT2:** None.

**RESULTING STATE:** Exiting System, “Enter your ID or ‘Q’ to quit:” message displayed.