**Comp5134 –Individual Programming Project Test Plan**

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Constraint : 1) Since the program is compiled by [32-bit JDK8], therefore please use [32-bit JRE8] to run the

eLeave.jar.

2) For the best view, please use 1280 x 1024 resolution.

3) The Director and HRAdmin object instances are not allowed to be removed.

4) In order to acquire the current leave application status, sometimes reselect the current staff

in the combo box may be required.

Preset 12 staff in class StaffDB

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| **Staff ID** | **Name** | **Role** |
| DIR1111 | Mr. Director | 1: (Director, cannot be removed) |
| HR1111 | Mr. HR Admin | 2: (HRAdmin, cannot be removed) |
| A1111 | Ms. A | 3: Normal user |
| B2222 | Mr. B | 3: Normal user |
| C3333 | Mr. C | 3: Normal user |
| D4444 | Mr. D | 3: Normal user |
| E5555 | Mr. E | 3: Normal user |
| F6666 | Mr. F | 3: Normal user |
| G7777 | Mr. G | 3: Normal user |
| H8888 | Mr. H | 3: Normal user |
| I9999 | Mr. I | 3: Normal user |
| J1111 | Mr. J | 3: Normal user |

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| **Test Case No.** | **Description** | **Input** | **Expected Output** |
| 1 | Create a new staff and assign a staff as another staff’s supervisor | Only Mr. HR Admin can create a staff  Staff ID : K2222  Staff Name : Mr. K  Supervisor : Mr. H | * Create Mr. K successfully * Mr. K can be found in Current Staff, Supervisor, and All Staff Combo Boxes |
| 2 | Remove a staff | Only Mr. HR Admin can remove a staff  Staff Name : Mr. G | * Remove Mr. G successfully * Mr. G will be removed from Current Staff, Supervisor, and All Staff Combo Boxes |
| 3 | Only one staff is allowed to have no supervisor  Each staff has only one supervisor | No input. It can proof in the source code | Class Staff Constructor  public Staff(String pstaffID, String pstaffName,  **Staff psupervisor**, int prole)  Class StaffDB  Staff directorObj = new Staff("DIR1111",  "Mr. Director",  **null**,1); |
| 4 | A staff can supervise multiple staff | No input. It can proof in the source code and test case number 7. | Class StaffDB  Staff **staffBObj** = new Staff("B2222","Mr. B",staffAObj,3);  Staff **staffDObj** = new Staff("D4444","Mr. D",**staffBObj**,3);  Staff **staffEObj** = new Staff("E5555","Mr. E",**staffBObj**,3); |
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| **Test Case No.** | **Description** | **Input** | **Expected Output** |
| 5 | Newly created Mr. K applies a leave with successfully approval.  **(K -> H -> F -> Director)**  Mr. Director cannot apply a leave in the system. | Current Staff : Mr. K  Leave period : 2016-01-01 to 2016-01-03  Current Staff : Mr. H  Mr. H endorses Mr. K’s application  Current Staff : Mr. F  Mr. F endorses Mr. K’s application  Current Staff : Mr. Director  Mr. Director approves Mr. K’s application  Current Staff : Mr. K | * After submission, Mr. K can find his application in his application list * The corresponding application will be submitted to Mr. H * Mr. H can find Mr. K’s application in his waiting approval list. * After endorsement, the application will pass to Mr. F for further approval * The corresponding application will be removed from Mr. H’s waiting approval list * Mr. F can find Mr. K’s application in his waiting approval list. * After endorsement, the application will pass to Director for further approval * The corresponding application will be removed from Mr. F’s waiting approval list * Apply Leave function is disabled. * Mr. Director can find Mr. K’s application in his waiting approval list. After approval, the application will be removed from Mr. Director’s waiting approval list and the chain of responsibility is completed. * Mr. K can find his application is approved. |
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| 6 | Mr. D applies a leave with decline in Ms. A  **(D -> B -> A)** | Current Staff : Mr. D  Leave period : 2016-02-01 to 2016-02-04  Current Staff : Mr. B  Mr. B endorses Mr. D’s application  Current Staff : Ms. A  Ms. A declines Mr. D’s application  Current Staff : Mr. Director  Current Staff : Mr. D | * After submission, Mr. D can find his application in his application list * The corresponding application will be submitted to Mr. B * Mr. B can find Mr. D’s application in his waiting approval list. * After endorsement, the application will pass to Ms. A for further approval * The corresponding application will be removed from Mr. B’s waiting approval list * Ms. A can find Mr. D’s application in her waiting approval list. * After decline, the application will be removed from Ms. A’s waiting approval list and the chain of responsibility is completed. * Although Mr. Director is the supervisor of Ms. A, the leave application is declined. So, no item in Mr. Director’s waiting approval list. * Mr. D can find his application is declined. |
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| 7 | A staff can supervise multiple staff and Mr. E applies a leave with successfully approval  **(E -> B -> A -> Director)** | Current Staff : Mr. E  Leave period : 2016-03-01 to 2016-03-08  Current Staff : Mr. B  Current Staff : Ms. A  Current Staff : Mr. B  Mr. B endorses Mr. E’s application  Current Staff : Ms. A  Ms. A endorses Mr. E’s application  Current Staff : Mr. Director  Mr. Director approves Mr. E’s application  Current Staff : Mr. E | * After submission, Mr. E can find his application in his application list * The corresponding application will be submitted to Mr. B(both Mr. D and Mr. E are supervised by Mr. B) * Mr. B can find Mr. E’s application in his waiting approval list. * Although Ms. A is the supervisor of Mr. B, the leave application is still pending in Mr. B. So, no item in Ms. A’s waiting approval list. * After endorsement, the application will pass to Ms. A for further approval * The corresponding application will be removed from Mr. B’s waiting approval list * Ms. A can find Mr. E’s application in her waiting approval list. * After endorsement, the application will pass to Director for further approval * The corresponding application will be removed from Ms. A’s waiting approval list * Mr. Director can find Mr. E’s application in his waiting approval list. After approval, the chain of responsibility is completed. * Mr. E can find his application is approved. |
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