# User Manual for

# Personal Information Manager (PIM)

COMP3211 Software Engineering Project

Group 26

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# Content

# Introduction

This user manual is designed for the personal information manager. The manual includes a detailed rules and operation guiding, which allows users understanding what kinds of operation are in line with the rules, and what kinds of operation are out of line with the rule. This user manual also contains some wrong operation that may caused by users, as well as our solutions and tips. With this manual, user can better understand the operation of this Personal Information Manager when user contact in the first time.

# Command Rule and operation guiding

## The PIM Home Menu

When the PIM starts running, user is taken directly to the home menu. By entering the corresponding numbers, user can do different types of operation for PIRs or exit the system.

```
-------------------------------------------------------
-      Hi! Here is Personal Information Manager      -
-------------------------------------------------------
-          1.Create Personal Information Records      -
-          2.Search Personal Information Records      -
-          3.Modify Personal Information Records      -
-          4.Delete Personal Information Records      -
-          5.Display Personal Information Records      -
-          6.Exit the system                          -
-------------------------------------------------------
Please choose what you want to do. 1,2,3,4,5,6:
```

## Create PIRs

Enter "1" in the home menu for creating PIRs, a catalog for creating different data types will show on the screen.

```
=======================================================
-              Create data type to choose            -
=======================================================
-              1.Create Quick Notes                   -
-              2.Create tasks                         -
-              3.Create contacts                      -
-              4.Create events                        -
-              5.Back to the Home Page                -
=======================================================
Please enter 1, 2, 3, 4, 5 to choose what you want to do: █
```

*Create quick notes*

1. Enter "1" in the data type menu for creating quick notes.

2. Typing notes and press enter, a message of successed create a PIR and save into records will notice you.

```
Please choose what you want to do. 1, 2, 3, 4, 5, 6: 1
--------------------------------------------------------
-           Create data type to choose              -
--------------------------------------------------------
-               1.Create Quick Notes                -
-               2.Create tasks                       -
-               3.Create contacts                    -
-               4.Create events                      -
-               5.Back to the Home Page              -
--------------------------------------------------------
Please enter 1, 2, 3, 4, 5 to choose what you want to do: 1
Enter your note:Hello World!
You have successfully create a PIR and saved into records.
```

*Create tasks*

1. Enter "1" in the data type menu for creating tasks.

2. Typing data and time following the format of (YYYY/MM/DD hh:mm), otherwise a tip message will be reported and you need to input again.

3. Typing text and press enter, a message of successed create a PIR and save into records will notice you.

```
--------------------------------------------------------
-           Create data type to choose              -
--------------------------------------------------------
-               1.Create Quick Notes                -
-               2.Create tasks                       -
-               3.Create contacts                    -
-               4.Create events                      -
-               5.Back to the Home Page              -
--------------------------------------------------------
Please enter 1, 2, 3, 4, 5 to choose what you want to do: 2
Enter date and time for task ( in format YYYY/MM/DD hh:mm): 2023/
11/11 23:59
Enter task text:COMP3211 Meeting
You have successfully create a PIR and saved into records.
```

*Create contacts*

1. Enter "3" in the data type menu for creating contacts.

2. Typing name, address and contact in correct data type, otherwise an invalid input message will be reported and you need input again.

```
--------------------------------------------------------
-           Create data type to choose              -
--------------------------------------------------------
-               1.Create Quick Notes                -
-               2.Create tasks                       -
-               3.Create contacts                    -
-               4.Create events                      -
-               5.Back to the Home Page              -
--------------------------------------------------------
Please enter 1, 2, 3, 4, 5 to choose what you want to do: 3
Enter a name for contact item:Zoe
Enter an contact address: Ningbo
Enter a contact number: 5201314
You have successfully create a PIR and saved into records.
```
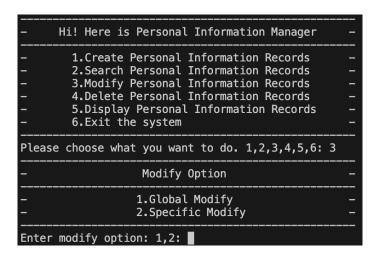
*Create events*

1. Enter "4" in the data type menu for creating tasks.

2. Typing start/alarm's data and time following the format of (YYYY/MM/DD hh:mm), otherwise a tip message will be reported and you need to retype it.

3. Typing event description and press enter, a message of successed create a PIR and save into records will notice you.

*Back to homepage*

Enter "5" in the data type menu for backing to the home page.

## Modify PIRs

Enter "3" in the home menu for modifying PIRs, a modify options will on the screen.

```
-----------------------------------------------------------
-      Hi! Here is Personal Information Manager       -
-----------------------------------------------------------
-         1.Create Personal Information Records        -
-         2.Search Personal Information Records        -
-         3.Modify Personal Information Records        -
-         4.Delete Personal Information Records        -
-         5.Display Personal Information Records       -
-         6.Exit the system                            -
-----------------------------------------------------------
Please choose what you want to do. 1,2,3,4,5,6: 3
-----------------------------------------------------------
-                  Modify Option                       -
-----------------------------------------------------------
-             1.Global Modify                          -
-             2.Specific Modify                        -
-----------------------------------------------------------
Enter modify option: 1,2: █
```

*Global modify*

1. Enter "1" as modify option

2. Inputting the original text you want to modify and replaced text, all eligible context will be modified. A message of successed modify the PIR and save into records will notice you.

- Example: Modify "2023/10/01 23:59" to "2023/10/01 23:58"

```
-----------------------------------------------------------
-                  Modify Option                       -
-----------------------------------------------------------
-             1.Global Modify                          -
-             2.Specific Modify                        -
-             3.Back to the Home Page                  -
-----------------------------------------------------------
Please enter 1, 2, 3 to choose modify option: 2
```

*Specific modify*

1. Enter "2" as modify option
2. Based on the search menu to select which type of PIRs you want to search. Also, you can type "5" to do larger-scale search for all types of PIRs, type "6" stop searching and go back to the homepage.

```
--------------------------------------------------
-                Modify Option                   -
--------------------------------------------------
-                1.Global Modify                 -
-                2.Specific Modify               -
--------------------------------------------------
Enter modify option: 1,2: 2
please search for PIRs you want to modify
--------------------------------------------------
-              Data type to search               -
--------------------------------------------------
-                1.Search Note                   -
-                2.Search Task                   -
-                3.Search Contact                -
-                4.Search Event                  -
-                5.Search All                    -
-                6.Back to the Home Page          -
--------------------------------------------------
Please enter data type you want to search: 1,2,3,4,5,6: ▯
```

3. After selecting the PIRs'type, you can perform simple searches of a single data and logic type and complex searches depending on the search requirements.

```
-              Data type to search               -
--------------------------------------------------
-                1.Search Note                   -
-                2.Search Task                   -
-                3.Search Contact                -
-                4.Search Event                  -
-                5.Search All                    -
-                6.Back to the Home Page          -
--------------------------------------------------
Please enter 1, 2, 3, 4, 5, 6 to choose what you want to do. 4
--------------------------------------------------
-             Search filter to choose            -
--------------------------------------------------
-             1.Search with single text          -
-             2.Search with single time          -
-             3.Search with combined logic        -
--------------------------------------------------
Please enter 1, 2, 3 to choose what you want to do.: ▯
```

4. For single data type and logic searching, you can follow the hints displayed on the screen to type information and logical operators in correct format. Then, the content corresponding to your search will be displayed.

- Example: Searching the data and time equal to "2023/11/11 13:00" in event PIRs.

```
-             Search filter to choose            -
--------------------------------------------------
-             1.Search with single text          -
-             2.Search with single time          -
-             3.Search with combined logic        -
--------------------------------------------------
Please enter 1, 2, 3 to choose what you want to do.: 2
Enter time in form of: value(YYYY/MM/DD HH:MM), condition(<, = , >): 2023/11/11 13:00,=
Enter "!" to search excluding this condition, or PRESS "enter" button to search including
this condition:
['Group Meeting,2023/11/11 13:00, 2023/11/11 12:50']
[22]
```

5. For complex data types and logicals searching functions, you can follow the hints displayed on the screen to type different types and logical operator information in correct format. Then, the content corresponding to your search will displayed.

- Example: Searching the text include "Max" and exclude "Cao" in contact PIRs.



6. Inputting the original text you want to modify and replace text, all eligible context will be modified. A message of successed modify the PIR and save into records will notice you.

- Example: Modifying "Group Meeting,2023/11/11 13:00, 2023/11/11 12:50" to be "COMP3211,2023/11/11 13:00, 2023/11/11 12:50".



- Example: Modifying "PQ666" to be "PQ604".

## Delete PIRs

1. Enter "4" in the home menu for selecting PIRs, searching the specific PIRs you want to delete. The method of searching is the same as modifying the PIRs part.

```
--------------------------------------------------------
-     Hi! Here is Personal Information Manager    -
--------------------------------------------------------
-        1.Create Personal Information Records    -
-        2.Search Personal Information Records    -
-        3.Modify Personal Information Records    -
-        4.Delete Personal Information Records    -
-        5.Display Personal Information Records    -
-        6.Exit the system                         -
--------------------------------------------------------
Please choose what you want to do. 1, 2, 3, 4, 5, 6: 4
please search for PIRs you want to delete
--------------------------------------------------------
-             Data type to search                 -
--------------------------------------------------------
-              1.Search Note                       -
-              2.Search Task                       -
-              3.Search Contact                    -
-              4.Search Event                      -
-              5.Search All                        -
-              6.Back to the Home Page             -
--------------------------------------------------------
Please enter 1, 2, 3, 4, 5, 6 to choose what you want to do.
```

2. When the PIM finds the PIRs you search, it will automatically delete it and display a message of successed modify the PIR and save into records will notice you.

   - Example: Delete the note include "hi" in quick notes PIRs by multiple data type and logical search.

```
please search for PIRs you want to delete
------------------------------------------------------
-             Data type to search             -
------------------------------------------------------
-          1.Search Note               -
-          2.Search Task               -
-          3.Search Contact            -
-          4.Search Event              -
-          5.Search All                -
-          6.Back to the Home Page     -
------------------------------------------------------
Please enter 1, 2, 3, 4, 5, 6 to choose what you want to do. 1
------------------------------------------------------
-          Search filter to choose            -
------------------------------------------------------
-          1.Search with single text          -
-          2.Search with combined logic       -
------------------------------------------------------
Please enter 1, 2 to choose what you want to do: 1
Enter text filter: hi
Enter "!" to search excluding this condition, or PRESS "enter" button to search including
this condition:
['hi']
[2]
You have successfully delete a PIR and saved into records.
```

Example: Delete the task include "Assignment 1" , time and data equal to "2023/10/01 23:59,=" in tasks PIRs by multiple data type and logical search.

```
please search for PIRs you want to delete
-----------------------------------------
-            Data type to search         -
-----------------------------------------
-           1.Search Note                -
-           2.Search Task                -
-           3.Search Contact             -
-           4.Search Event               -
-           5.Search All                 -
-           6.Back to the Home Page      -
-----------------------------------------
Please enter 1, 2, 3, 4, 5, 6 to choose what you want to do. 2
-----------------------------------------
-           Search filter to choose      -
-----------------------------------------
-           1.Search with single text    -
-           2.Search with single time    -
-           3.Search with combined logic -
-----------------------------------------
Please enter 1, 2, 3 to choose what you want to do.: 3
Enter condition (time, value, condition) or (text, value): , or PRESS "enter" to finish. time,2023/10/01 23:59,=
Enter "!" to search excluding this condition, or PRESS "enter" button to search including this condition:
Enter operator: "||", "&&" : , or PRESS "enter" to finish. &&
Enter condition (time, value, condition) or (text, value): , or PRESS "enter" to finish. text,Assignment 1
Enter "!" to search excluding this condition, or PRESS "enter" button to search including this condition:
Enter operator: "||", "&&" : , or PRESS "enter" to finish.
['Assignment 1,2023/10/01 23:59']
[8]
You have successfully delete a PIR and saved into records.
```

## Display PIRs

1. Enter "5" in the home menu for displaying PIRs, a display option will be on the screen. By entering the corresponding numbers, the PIM will display different types of PIRs.

2. Display specific type of PIRs
   - Enter "1" as display options, all created notes will show on the screen.

```
----------------------------------------------------
-      Hi! Here is Personal Information Manager     -
----------------------------------------------------
-        1.Create Personal Information Records      -
-        2.Search Personal Information Records      -
-        3.Modify Personal Information Records      -
-        4.Delete Personal Information Records      -
-        5.Display Personal Information Records     -
-        6.Exit the system                          -
----------------------------------------------------
Please choose what you want to do. 1,2,3,4,5,6: 5
----------------------------------------------------
-                  Display Option                   -
----------------------------------------------------
-                 1.Display Note                    -
-                 2.Display Task                    -
-                 3.Display Contact                 -
-                 4.Display Event                   -
-                 5.Display All                     -
-                 6.Back to the Home Page           -
----------------------------------------------------
Enter display option: 1,2,3,4,5,6: 1
Notes

hihi

hihihihihihi

11111

hello world
```

3. Display all PIRs
   - When user enter "5" as display options, all created PIRs will show on the screen.

```
--------------------------------------------------
Enter display option: 1,2,3,4,5,6: 5
------Note------

Notes

hi

hihihi

11111

hello world


------Task------

Description,Deadline

Assignment 1,2023/10/01 23:58

Assignment 2,2023/11/01 23:59

Assignment 3,2023/11/29 23:59

Group Report,2023/12/01 23:59

Group Presentation,2023/12/01 23:59

------Contact------

Name,Address,Mobile_num

Max,PQ666,66666666

Cao,PQ777,66665555

John,PQ668,66668888

Jeff,PQ700,66660000

------Event------

Description,Start_time,Alarm

Group Meeting,2023/11/11 13:00, 2023/11/11 12:50

Midterm,2023/11/27 12:00, 2023/11/11 11:50

------End------
```

## Exit the system

Enter "6" in the home menu for exiting the PIM.

# Error handling

1. Incorrect format of data and time

   The correct format for date and time in the PIM is YYYY/MM/DD. If your input format is wrong, the PIM will automatically determine that what you have entered is invalid and guide you to re-enter it.

   ```
   ------------------------------------------------------
   -              Create data type to choose            -
   ------------------------------------------------------
   -                  1.Create Quick Notes              -
   -                  2.Create tasks                    -
   -                  3.Create contacts                 -
   -                  4.Create events                   -
   -                  5.Back to the Home Page           -
   ------------------------------------------------------
   Please enter 1, 2, 3, 4, 5 to choose what you want to do: 2
   Enter date and time for task ( in format YYYY/MM/DD hh:mm): 2023/
   11/12 12: 13
   Enter the right format date for task:█
   ```

2. Incorrect data type

   Different information corresponds to different data types. If your input type is wrong, the PIM will automatically determine that what you have entered is invalid and guide you to re-enter it.

   ```
   -              Create data type to choose            -
   ------------------------------------------------------
   -                  1.Create Quick Notes              -
   -                  2.Create tasks                    -
   -                  3.Create contacts                 -
   -                  4.Create events                   -
   -                  5.Back to the Home Page           -
   ------------------------------------------------------
   Please enter 1, 2, 3, 4, 5 to choose what you want to do: 3
   Enter a name for contact item:Zoe
   Enter an contact address: Ningbo
   Enter a contact number: ABC
   invalid input, please input again
   Enter a contact number: █
   ```

3.     Incorrect number selection

Different numbers in the catalog correspond to fixed operations.If you enter a number other than 1 to 6, the error message will show on the screen to notify the the input is invalid, please enter integer number between 1 to 6.

```
------------------------------------------------------
-      Hi! Here is Personal Information Manager     -
------------------------------------------------------
-         1.Create Personal Information Records     -
-         2.Search Personal Information Records     -
-         3.Modify Personal Information Records     -
-         4.Delete Personal Information Records     -
-         5.Display Personal Information Records    -
-         6.Exit the system                         -
------------------------------------------------------
Please choose what you want to do. 1,2,3,4,5,6: 5
------------------------------------------------------
-                  Display Option                   -
------------------------------------------------------
-              1.Display Note                        -
-              2.Display Task                        -
-              3.Display Contact                     -
-              4.Display Event                       -
-              5.Display All                         -
-              6.Back to the Home Page               -
------------------------------------------------------
Enter display option: 1,2,3,4,5,6: 7
invalid input,please enter int number 1~6
```