

ASSIGNMENT PROJECT REPORT

User Manual

COMP3211 Software Engineering

Department of Computing

The Hong Kong Polytechnic University

Koon Him MOO

WU Jiasheng

Ho Yu YIP

Sarah Bless Sarmiento Monsod

November 25, 2023

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1. Introduction

This user manual is designed for personal information management systems. The manual includes detailed rules and operation guides, which allow users to understand how specific operations will affect operations and what operations are following the rules, thereby guiding users to use the system. This manual also contains some incorrect operations that users may cause, as well as our solutions and tips.

Through this manual, users can quickly master the use of each function and quickly understand the operation of the system when using the personal information management system for the first time.

2. Operational Guide

The contents of this chapter will guide users to understand the correct rules and correct input formats, as well as error operating system prompts.

2.1 PIM System Menu

- Initialization Interface

```
=====
Personal Information Management System (PIM)
=====
Please Enter Command:[a][b][c][d][e][f][g][h]
| a = add record      | b = modify record  |
| c = search record   | d = print record   |
| e = delete record   | f = export file    |
| g = import file     | h = exit           |
=====
Command: 
```

User Interface 1: Main menu

- Input Format:

a/b/c/d/e/f/g/h

- Wrong Input

```
=====
Personal Information Management System (PIM)
=====
Please Enter Command:[a][b][c][d][e][f][g][h]
| a = add record      | b = modify record  |
| c = search record   | d = print record   |
| e = delete record   | f = export file    |
| g = import file     | h = exit           |
=====
Command: 8
Unknown Command
```

2.2 Add Records Function

```
=====
Personal Information Management System (PIM)
=====
Please Enter Command:[a][b][c][d][e][f][g][h]
| a = add record      | b = modify record |
| c = search record   | d = print record  |
| e = delete record   | f = export file   |
| g = import file     | h = exit          |
=====
Command: a
```

User Interface 1: Main menu

- Input Format:

a

```
===== PIM System - Add Record =====
Enter the number of type you want to add:
| 1. Add a new task record |
| 2. Add a new note record |
| 3. Add a new contact record |
| 4. Add a new event record |
| 5. Back to main menu    |
=====
```

User Interface 2: Add Record Menu

A menu which allows the user to choose whether they want to create plain texts, tasks, events or contacts.

- Wrong Input

```
===== PIM System - Add Record =====
Enter the number of type you want to add:
| 1. Add a new task record |
| 2. Add a new note record |
| 3. Add a new contact record |
| 4. Add a new event record |
| 5. Back to main menu    |
=====
i
Error Message: Invalid input. Please enter a valid integer.
```

Create Task Record

By creating new tasks, the user can type and save the content for description and set up the date for the deadline, which the system receives what user type or save it in record.

```
===== PIM System - Add Record =====
Enter the number of type you want to add:
| 1. Add a new task record
| 2. Add a new note record
| 3. Add a new contact record
| 4. Add a new event record
| 5. Back to main menu
=====
1
Enter task description:
Go to school
Enter task date (MM/DD/YYYY):
11/11/2023
=====
Save Task? (Y/N) or Exit Add Task (E)
```

User Interface 3: Add Task Record

- Input Format:

1

[enter task description]

[enter task date]

When entering the corresponding information, you will be prompted whether to save the information to prevent the user from making mistakes at the beginning and reduce the possibility of subsequent modifications.

- Wrong Input

```
Enter task date (MM/DD/YYYY):
11.22.2023
Error: Unparseable date: "11.22.2023"
```

- Input Format:

N

```

=====
Save Task? (Y/N) or Exit Add Task (E)
=====
N
Enter task description:
Go to park
Enter task date (MM/DD/YYYY):
11/12/2023
=====
Save Task? (Y/N) or Exit Add Task (E)
=====

```

User Interface 4: Add Task Record Conform Message

- Input Format:

Y

```

=====
Save Task? (Y/N) or Exit Add Task (E)
=====
Y
Record added successfully!
=====

```

User Interface 5: Add Task Record Successfully

Create Note Record

By creating the plain tasks, the user can type the content for quick notes, which the system receives what user type and save it in record.

```

=====
===== PIM System - Add Record =====
=====
Enter the number of type you want to add:
| 1. Add a new task record |
| 2. Add a new note record |
| 3. Add a new contact record |
| 4. Add a new event record |
| 5. Back to main menu |
=====
2
=====
Enter note:
Go to park by bus
=====
Save note? (Y/N) or Exit Add Note (E)
=====
Y
Record added successfully!
=====

```

User Interface 6: Add Note Record

- Input Format:

2

[enter note details]

When entering the corresponding information, you will be prompted whether to save the information to prevent the user from making mistakes at the beginning and reduce the possibility of subsequent modifications.

Create Contact Record

By creating new contacts, the user can type and save the content for the corresponding names, addresses, and mobile numbers, which the system receives what user type and save it in record.

```

=====
===== PIM System - Add Record =====
=====
Enter the number of type you want to add:
| 1. Add a new task record |
| 2. Add a new note record |
| 3. Add a new contact record |
| 4. Add a new event record |
| 5. Back to main menu |
=====
3
Enter contact first name:
Jason
Enter contact last name:
Chan
Enter contact phone number:
55555555
=====
Contact Information:
First Name: Jason
Last Name: Chan
Phone Number: 55555555
=====
Save Contact? (Y/N) or Exit Add Contact (E)
=====

```

User Interface 7: Add Contact Record

- Input Format:

3

[enter first name]

[enter last name]

[enter contact phone number]

When entering the corresponding information, you will be prompted whether to save the information to prevent the user from making mistakes at the beginning and reduce the possibility of subsequent modifications.

- Input Format:

Y

```
Save Contact? (Y/N) or Exit Add Contact (E)
=====
N
Enter contact first name:
Amy
Enter contact last name:
Chan
Enter contact phone number:
55556666
=====
Contact Information:
First Name: Amy
Last Name: Chan
Phone Number: 55556666
=====
Save Contact? (Y/N) or Exit Add Contact (E)
=====
Y
Record added successfully!
=====
```

User Interface 8: Add Contact Record Successfully

Create Event Record

By creating new events, the user can type and save the content for descriptions, set up the date and time for starting time, which the system receives what user type and save it in record.


```

=====
===== PIM System - Add Record =====
=====
Enter the number of type you want to add:
| 1. Add a new task record          |
| 2. Add a new note record         |
| 3. Add a new contact record      |
| 4. Add a new event record        |
| 5. Back to main menu             |
=====
4
Enter event description:
Go to park and meet Amy
Enter event date (MM/DD/YYYY):
11/12/2023
Enter event time (HH:MM):
15:00
Enter event alarm (HH:MM):
16:00

```

User Interface 9: Add Event Record

- Input Format:

4

[enter event description]

[enter event date]

[enter event alarm]

```

N
Enter event description:
Go to park by bus and meet Amy
Enter event date (MM/DD/YYYY):
11/12/2023
Enter event time (HH:MM):
15:00
Enter event alarm (HH:MM):
14:30
=====
Event Information:
Description: Go to park by bus and meet Amy
Date: 11/12/2023
Time: 15:00
Alarm: 14:30
=====
Save Event? (Y/N) or Exit Add Event (E)
=====

```

User Interface 10: Add Event Conform Record

- Wrong Input

If you do not fill it in according to the time format HH:MM, an error will occur.

```
Enter event time (HH:MM):
10.20 p.m.
Error: Text '10.20 p.m.' could not be parsed at index
```

In addition, if the alarm time you fill in is later than the event time, the warning will not be effective, so an error will occur.

```
Enter event time (HH:MM):
15:00
Enter event alarm (HH:MM):
16:00
Alarm time cannot be after event time
Enter event time (HH:MM):
15:00
Enter event alarm (HH:MM):
14:30
=====
Event Information:
Description: Go to park and meet Amy
Date: 11/12/2023
Time: 15:00
Alarm: 14:30
=====
Save Event? (Y/N) or Exit Add Event (E)
```

- Input Format:

Y

```
=====
Save Task? (Y/N) or Exit Add Task (E)
=====
Y
Record added successfully!
```

User Interface 11: Add Task Record Successfully

2.3 Modify Records Function

- Input Format:

b

```
=====
Personal Information Management System (PIM)
=====
Please Enter Command:[a][b][c][d][e][f][g][h]
| a = add record      | b = modify record |
| c = search record   | d = print record  |
| e = delete record   | f = export file   |
| g = import file     | h = exit          |
=====
Command: b
=====
----- PIM System - Modify Record -----
=====
[0] Task {Description : 'Go to park', Date :Sun Jan 01 00:00:00 HKT 2023}
[1] Note {'Go to park by bus'}
[2] Contact {First Name : 'Amy', LastName :Chan, Phone Number :55556666}
[3] Event {Description : 'Go to park by bus and meet Amy', Date :Sun Jan 01 00:00:00 HKT 2023, Time :15:00, Alarm :14:30}
=====
Please enter index of record you want to modify:
=====
```

User Interface 12: Modify Record Details

Various types of records created can be modified through the modification function.

Modify Task Record

- Input Format:

0

[enter task description]

[enter task date]

```
=====
0
Please enter new Task description:
Go to park and meet Amy
Please enter new Task date (MM/DD/YYYY):
11/12/2023
Record modified successfully!
=====
```

User Interface 13: Modify Task Record Details

Modify Note Record

- Input Format:

1

[enter note details]

```
=====
Please enter index of record you want to modify
=====
1
Please enter new note text:
Go to park by taxi
Record modified successfully!
```

User Interface 14: Modify Note Record Details

Modify Contact Record

- Input Format:

2

[enter first name]

[enter last name]

[enter contact phone number]

```
-----
2
Please enter new contact first name:
Amy
Please enter new contact last name:
Wong
Please enter new contact phone number:
51516666
Record modified successfully!
```

User Interface 15: Modify Contact Record Details

Modify Event Record

- Input Format:

3

[enter event description]

[enter event date]

[enter event alarm]

```

3
Please enter new event description:
Go to park by taxi and meet Amy
Please enter new event date (MM/DD/YYYY):
11/12/2023
Please enter new event time (HH:mm):
15:00
Please enter new event alarm (HH:mm):
14:30
Record modified successfully!

```

User Interface 16: Modify Event Record Details

2.4 Search Records Function

- Input Format:

c

```

=====
Personal Information Management System (PIM)
=====
Please Enter Command:[a][b][c][d][e][f][g][h]
| a = add record      | b = modify record  |
| c = search record   | d = print record   |
| e = delete record   | f = export file    |
| g = import file     | h = exit           |
=====
Command: c
=====
===== PIM System - Search Record =====
=====
Please enter type of record want to search:
| 1. Task              |
| 2. Note              |
| 3. Contact           |
| 4. Event             |
=====

```

User Interface 17: Search Record Menu

In terms of search function, we demonstrate two main categories here as search

examples. In fact, we use keywords as search conditions, that is, as long as the specified characters are included, the search can be performed.

Search Contact Record

- Input Format:

3

[enter keyword(First Name, Last name or Phone number)]

```
3
Please enter criteria:
Amy
=====
Search Result
=====
Contact: Contact {First Name : 'Amy', LastName : Wong, Phone Number : 51516666}
=====
```

User Interface 18: Search Contact Record – First Name

```
3
Please enter criteria:
Wong
=====
Search Result
=====
Contact: Contact {First Name : 'Amy', LastName : Wong, Phone Number : 51516666}
=====
```

User Interface 19: Search Contact Record – Last Name

```
3
Please enter criteria:
6666
=====
Search Result
=====
Contact: Contact {First Name : 'Amy', LastName : Wong, Phone Number : 51516666}
=====
```

User Interface 20: Search Contact Record – Phone Number

Search Contact Record

- Input Format:

2

[enter keyword(Note)]

```
===== PIM System - Search Record =====
=====
Please enter type of record want to search:
| 1. Task |
| 2. Note |
| 3. Contact |
| 4. Event |
=====
2
Please enter criteria:
park
=====
Search Result
=====
Note: Note {'Go to park by taxi'}
=====
```

User Interface 21: Search Note Record

- Wrong Input

If the entered keywords do not match, no content will be output.

```
===== PIM System - Search Record =====
=====
Please enter type of record want to search:
| 1. Task |
| 2. Note |
| 3. Contact |
| 4. Event |
=====
2
Please enter criteria:
School
=====
```

2.5 Print Records Function

- Input Format:

d

```

=====
Personal Information Management System (PIM)
=====
Please Enter Command:[a][b][c][d][e][f][g][h]
| a = add record      | b = modify record  |
| c = search record   | d = print record   |
| e = delete record   | f = export file    |
| g = import file     | h = exit           |
=====
Command: d
=====
===== PIM System - Print Record =====
=====
[0] Task {Description : 'Go to park and meet Amy', Date :Sun Nov 12 00:00:00 HKT 2023}
[1] Note {'Go to park by taxi'}
[2] Contact {First Name : 'Amy', LastName :Wong, Phone Number :51516666}
[3] Event {Description : 'Go to park by taxi and meet Amy', Date :Sun Nov 12 00:00:00 HKT 2023, Time :15:00, Alarm :14:30}
=====
Please enter index of record want to print:
If you want to print all records, enter -1:
=====
2
Contact: Contact {First Name : 'Amy', LastName :Wong, Phone Number :51516666}

```

User Interface 22: Print Records Function

- Input Format:

Index or -1

If you need to print records, you only need to enter the index number of the record to output the print content. If you want to output all records, you can enter -1

```

=====
===== PIM System - Print Record =====
=====
[0] Task {Description : 'Go to park and meet Amy', Date :Sun Nov 12 00:00:00 HKT 2023}
[1] Note {'Go to park by taxi'}
[2] Contact {First Name : 'Amy', LastName :Wong, Phone Number :51516666}
[3] Event {Description : 'Go to park by taxi and meet Amy', Date :Sun Nov 12 00:00:00 HKT 2023, Time :15:00, Alarm :14:30}
=====
Please enter index of record want to print:
If you want to print all records, enter -1:
=====
0
Task: Task {Description : 'Go to park and meet Amy', Date :Sun Nov 12 00:00:00 HKT 2023}

```

User Interface 23: Print Records Function – Print any records.

```

=====
Please enter index of record want to print:
If you want to print all records, enter -1:
=====
-1
=====
All records:
[0] Task: Task {Description : 'Go to park and meet Amy', Date :Sun Nov 12 00:00:00 HKT 2023}
[1] Note: Note {'Go to park by taxi'}
[2] Contact: Contact {First Name : 'Amy', LastName :Wong, Phone Number :51516666}
[3] Event: Event {Description : 'Go to park by taxi and meet Amy', Date :Sun Nov 12 00:00:00 HKT 2023, Time :15:00, Alarm :14:30}
=====

```

User Interface 24: Print Records Function – Print all records.

2.6 Delete Records Function

- Input Format:

e

```
=====
Personal Information Management System (PIM)
=====
Please Enter Command:[a][b][c][d][e][f][g][h]
| a = add record      | b = modify record |
| c = search record   | d = print record  |
| e = delete record    | f = export file   |
| g = import file     | h = exit          |
=====
Command: e
=====
===== PIM System - Delete Record =====
=====
[0] Task {Description : 'Go to park and meet Amy', Date :Sun Nov 12 00:00:00 HKT 2023}
[1] Note {'Go to park by taxi'}
[2] Contact {First Name : 'Amy', LastName :Wong, Phone Number :51516666}
[3] Event {Description : 'Go to park by taxi and meet Amy', Date :Sun Nov 12 00:00:00 HKT 2023, Time :15:00, Alarm :14:30}
=====
Please enter index of record want to delete:
=====
```

User Interface 25: Delete Records Function

When you choose to delete certain data, the system will provide a confirmation message to ensure that it is not deleted by mistake.

- Input Format:

Index

N

```
=====
Please enter index of record want to delete:
=====
1
=====
Are you sure you want to delete this record?
=====
Note {'Go to park by taxi'}
=====
Please enter [Y] to confirm, [N] to cancel:
=====
N
Delete canceled!
=====
```

User Interface 26: Delete Records Function - Cancel

- Input Format:

Index

Y

```
=====
Please enter index of record want to delete:
=====
1
=====
Are you sure you want to delete this record?
=====
Note {'Go to park by taxi'}
=====
Please enter [Y] to confirm, [N] to cancel:
=====
Y
Record deleted successfully!
=====
```

User Interface 27: Delete Records Function - Successfully

2.7 Export File Function

- Input Format:

f

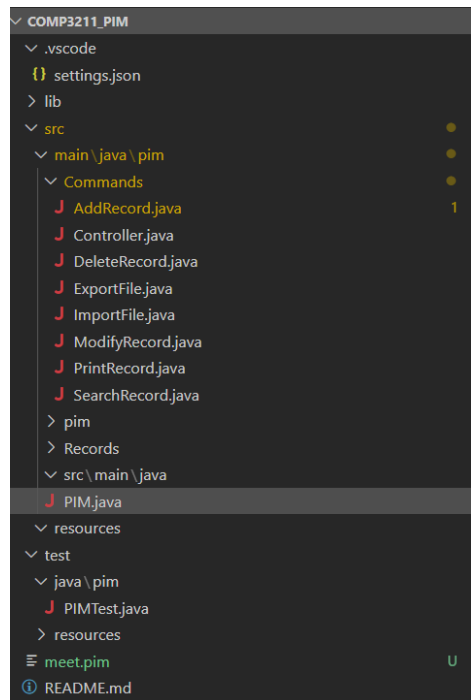
```
=====
Personal Information Management System (PIM)
=====
Please Enter Command:[a][b][c][d][e][f][g][h]
| a = add record      | b = modify record |
| c = search record   | d = print record  |
| e = delete record   | f = export file   |
| g = import file     | h = exit          |
=====
Command: f
=====
===== PIM System - Export File =====
=====
Enter File Name
meet
=====
```

User Interface 28: Export File Function

When exporting data, you only need to enter the name of the file you want to save.

- Input Format:

[file name]



User Interface 29: File Export Successfully

2.8 Import File Function

- Input Format:

g

[file name.pim]

```
=====
===== PIM System - Import File =====
=====
Enter File Name
meet.pim
=====
Personal Information Management System (PIM)
=====
Please Enter Command:[a][b][c][d][e][f][g][h]
| a = add record      | b = modify record  |
| c = search record   | d = print record   |
| e = delete record    | f = export file    |
| g = import file      | h = exit           |
=====
Command: d
=====
===== PIM System - Print Record =====
=====
[0] Task {Description : 'Go to park and meet Amy', Date :Sun Nov 12 00:00:00 HKT 2023}
[1] Note {'Go to park by taxi'}
[2] Contact {First Name : 'Amy', LastName :Wong, Phone Number :51516666}
[3] Event {Description : 'Go to park by taxi and meet Amy', Date :Sun Nov 12 00:00:00 HKT 2023, Time :15:00, Alarm :14:30}
=====
```

User Interface 30: Import File Function

2.9 Exit

- Input Format:

h

```
=====
Personal Information Management System (PIM)
=====
Please Enter Command:[a][b][c][d][e][f][g][h]
| a = add record      | b = modify record  |
| c = search record   | d = print record   |
| e = delete record   | f = export file    |
| g = import file     | h = exit           |
=====
Command: h
Exit PIM System
```

User Interface 31: Exit Function

3. Additional Information

The suffix of the saved file is .pim . If you import files in other formats, an error will occur.