HW8 VER2 PROJECT PRESENTATION

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What You Will Find Inside

- A feature to add data to a database

- A feature to search for data in the data base

- A feature to run reports on the data base

Feature 1: Data Input

```
(venv) PS D:\NKU\Fall2023\ase420\HW8\HW8-Project\ver2> python main.py
What would you like to do.
Enter 1 to input information
Enter 2 to search for information
Enter 3 to run a report
What do you want to, Enter your choice 1 - 3:1
Enter date (YYYY/MM/DD): 2023/01/01
Enter start time(HH:MM): 11:11
Enter am or pm for your time. If you entered millitary time, please type m: PM
Enter end time(HH:MM): 11:11 AM
Invalid date format. Please use the format YYYY/MM/DD.
Enter end time(HH:MM): 11:11
Enter am or pm for your time. If you entered millitary time, please type m: AM
Enter task name: SLEEP
Enter task tag: REST
Data successfully inserted into the database.
(venv) PS D:\NKU\Fall2023\ase420\HW8\HW8-Project\ver2>
```

- This feature allows you to input data related to a task.

- This feature also maintains data formatting rules.

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Feature 2: Data Search

```
What would you like to do.
Enter 1 to input information
Enter 2 to search for information
Enter 3 to run a report
What do you want to, Enter your choice 1 - 3:2
What would you like to do.
Enter 1 to search for tasks on a date
Enter 2 to search for tasks that start at a certain time
Enter 3 to search for tasks that end at a certain time
Enter 4 to search for tasks with a certain name
Enter 5 to search for tasks with a certain tag
Enter 6 to search for tasks with a certain start and end time
What do you want to do, Enter your choice 1 - 6:2
Enter the start time you want to search for (HH:MM): 11:11
Enter am or pm for your time. If you entered millitary time, please type m: PM
Search Results:
ID: 1
Date of Task: 2023/01/01
Start Time of Task: 23:11
End Time of Task: 11:11
Task Name: SLEEP
Task Tag: REST
-------------------------------
```

- This feature allows you select an input type to search for and returns all that match

- This feature also maintains data formatting rules.

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Feature 3 Part 1: Data Range Report

```
Enter 1 to input information
Enter 2 to search for information
Enter 3 to run a report
What do you want to, Enter your choice 1 - 3:3
What would you like to do.
Enter 1 to run a Date Range report to see what task have been complete between two dates
Enter 2 to to run a Time Consumption report to see what task have the most time spent on them
What do you want to do, Enter your choice 1 - 2:1
Enter the start date you want to search for (YYYY/MM/DD): 2022/01/01
Enter the end date you want to search for (YYYY/MM/DD): 2023/12/31
ID | Date       | Start Time | End Time   | Task Name    | Task Tag
-------------------------------------------------------------------
1  | 2023/01/01 | 23:11      | 11:11      | SLEEP        | REST
```

- This feature produces results listing all task done between two dates

- This feature also maintains data formatting rules.

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Feature 3 Part 2: Time Consumption Report

- This feature produces results listing tasks tags with the collective time spent on each tag.

```
(venv) PS D:\NKU\Fall2023\ase420\HW8\HW8-Project\ver2> python main.py
What would you like to do.
Enter 1 to input information
Enter 2 to search for information
Enter 2 to search for information
Enter 3 to run a report
What do you want to, Enter your choice 1 - 3:3
What would you like to do.
Enter 1 to run a Date Range report to see what task have been complete between two dates
Enter 2 to to run a Time Consumption report to see what task have the most time spent on them
What do you want to do, Enter your choice 1 - 2:2
Task Tag | Total Duration (minutes)
---------------------------------------
Rest     | 600
Study    | 720
(venv) PS D:\NKU\Fall2023\ase420\HW8\HW8-Project\ver2> 
```

PROJECT TESTING

6 manual test

3 acceptance tests

3 integration tests

17 unit test

1 regression test

```
==================================== test session starts ====================================
platform win32 -- Python 3.11.5, pytest-7.4.3, pluggy-1.3.0
rootdir: D:\NKU\Fall2023\ase420\HW8\HW8-Project\ver2
collected 17 items

test\test_main_data_input.py .                                                      [   5%]
test\test_main_data_input_error.py .                                                [  11%]
test\test_main_date_range_report.py .                                               [  17%]
test\test_main_date_range_report_error.py .                                         [  23%]
test\test_main_search_date.py .                                                     [  29%]
test\test_main_search_date_error.py .                                               [  35%]
test\test_main_search_end_time.py .                                                 [  41%]
test\test_main_search_end_time_error.py .                                           [  47%]
test\test_main_search_not_found.py .                                                [  52%]
test\test_main_search_start_time.py .                                               [  58%]
test\test_main_search_start_time_error.py .                                         [  64%]
test\test_main_search_start_to_end.py .                                             [  70%]
test\test_main_search_start_to_end_error.py .                                       [  76%]
test\test_main_search_task_name.py .                                                [  82%]
test\test_main_search_task_tag.py .                                                 [  88%]
test\test_main_time_consumption_report_a.py .                                       [  94%]
test\test_main_time_consumption_report_error.py .                                   [100%]

==================================== 17 passed in 7.31s ====================================
```