

Individual Project Version 1

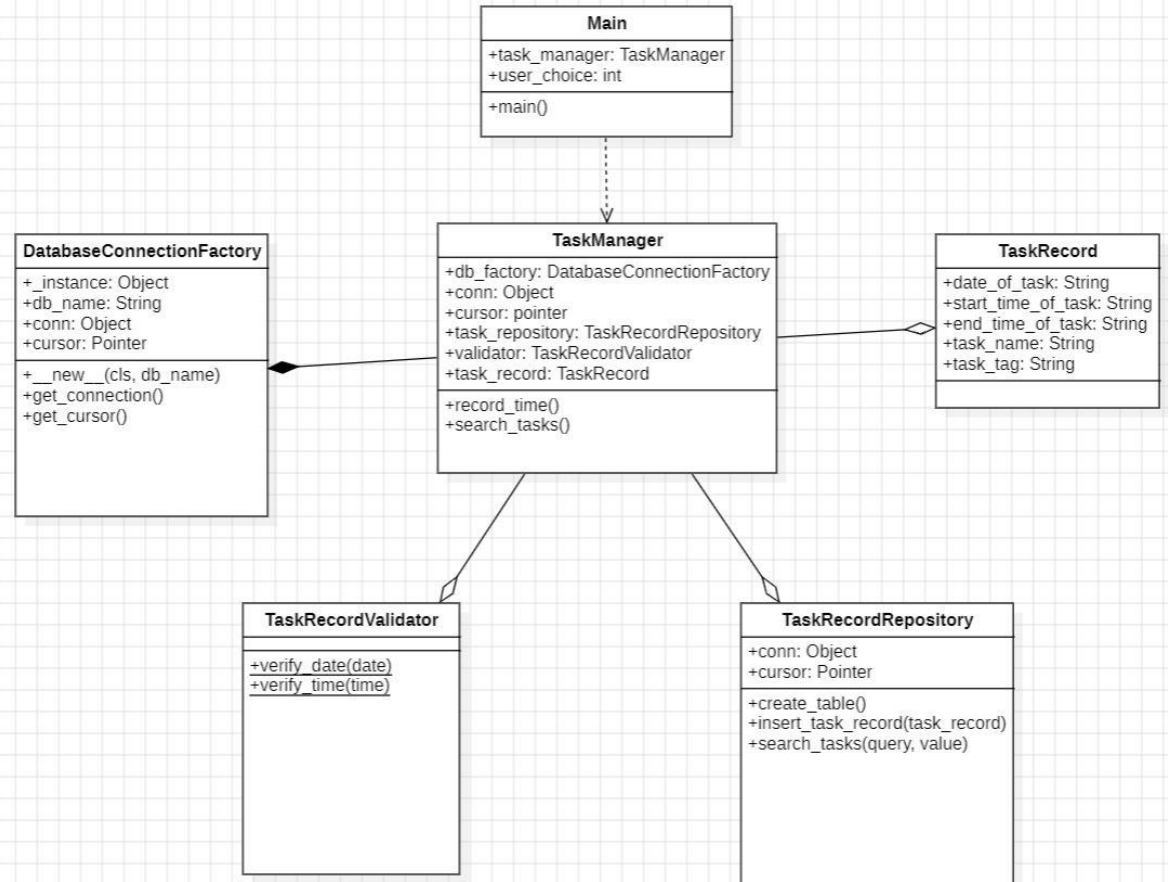
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Overview

- Task Management System
 - Simplistic overarching design to support the main two features
 - The user can create new entries for time management
 - The user can read previously entered time entries

Design

- Simplistic design to prevent coupling
- Composed of 6 classes
 - 5 used for internal logic
 - 1 used as main/start



Record Time Feature

- The Record Time Feature allows the user to input entries into the database.
- This is done by prompting the user for each bit of information

```
Choose one of the following actions.
```

```
1. Record time
```

```
2. Search tasks
```

```
3. Exit
```

```
Enter your choice: 1
```

```
Enter date (YYYY-MM-DD or today): today
```

```
Enter start time (HH:MM AM/PM): 12:00 AM
```

```
Enter end time (HH:MM AM/PM): 12:00 PM
```

```
Enter task name: Create feature images for powerpoint.
```

```
Enter task tag: Test
```

```
Data successfully inserted into the database.
```

Search Task Feature

- The search task feature allows the user to view previously inputted records.
- This is achieved by asking the user what data field they would like to search by.
- Entire entry is printed if the query matches.

```
Choose one of the following actions.
1. Record time
2. Search tasks
3. Exit
Enter your choice: 2
Search options:
1. date of task
2. start time of task
3. end time of task
4. task name
5. task tag
6. start time of task AND end time of task
Enter your choice: 5
Enter the task tag you want to search for: Test
Search Results:
(2, 'today', '12:00 AM', '12:00 PM', 'Create feature images for powerpoint.', 'Test')
```

```
collected 13 items
```

```
test\test_DatabaseConnectionFactory.py ... [ 23%]  
test\test_TaskManager.py .. [ 38%]  
test\test_TaskRecord.py . [ 46%]  
test\test_TaskRecordRepository.py ... [ 69%]  
test\test_TaskRecordValidator.py .... [100%]
```

```
===== 13 passed in 0.05s =====
```

Tests Complete

- 13 Unit Tests
- 1 Manual Test
- 1 Regression Test
- 2 Integration Tests
- 2 Acceptance Tests