ASE 420 Individual Project

Josh Lohner

CLI Time Management Application

- Implemented a command line interface project to record and query a user's tasks.
- Allow for different formats
- Create reports
- Use a database
- Using SOLID and OOP Principles

Test Progress and Completion

Acceptance Test: 100%

Integration Test: 100%

Regression Test: 100%

Unit Tests: 100%

```
Ran 3 tests in 0.005s

OK

Combined Duration for Tasks:
Task: Task1, Combined Duration: 5.0
Task: Task2, Combined Duration: 3.0
Task: Task3, Combined Duration: 2.0

Ran 1 test in 0.005s

OK

Ran 5 tests in 0.009s

OK

Ran 3 tests in 0.004s

OK
```

Record Command

The record commands allows the user to enter their data/information into the database.

```
Enter command: record 2002/09/01 02:00 08:00 flutter programming

Record added successfully.
```

Report Command

The report command displays all activities recorded within a time range, specified by the user.

```
Enter command: report 2002/09/01 2023/12/09
Matching records for date range 2002/09/01 to 2023/12/09:
(1, '2023/12/09', '10:00', '12:00', '2:00:00', 'python', 'study')
(2, '2023/12/08', '02:00', '03:43', '1:43:00', 'java', 'study')
(3, '2023/12/09', '01:00', '06:00', '5:00:00', 'java', 'study')
(5, '2002/09/01', '02:00', '08:00', '6:00:00', 'flutter', 'programming')
```

Priority Command

The priority command displays all of the activities that you have done by the task name

```
Enter command: priority
Combined Duration for Tasks:
Task: c, Combined Duration: 10.0
Task: java, Combined Duration: 6.0
Task: flutter, Combined Duration: 6.0
Task: python, Combined Duration: 2.0
```

Querydate Command

QueryDate allows the user
to see all database entries
that have the specified
date.

```
Enter command: querydate 2023/12/09
Matching records for date 2023/12/09:
(1, '2023/12/09', '10:00', '12:00', '2:00:00', 'python', 'study')
(3, '2023/12/09', '01:00', '06:00', '5:00:00', 'java', 'study')
```

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Querytag Command

The querytag command allows users to see all database entries that have the same tag.

```
Enter command: querytag study
Matching records for tag study:
(1, '2023/12/09', '10:00', '12:00', '2:00:00', 'python', 'study')
(2, '2023/12/08', '02:00', '03:43', '1:43:00', 'java', 'study')
(3, '2023/12/09', '01:00', '06:00', '5:00:00', 'java', 'study')
```
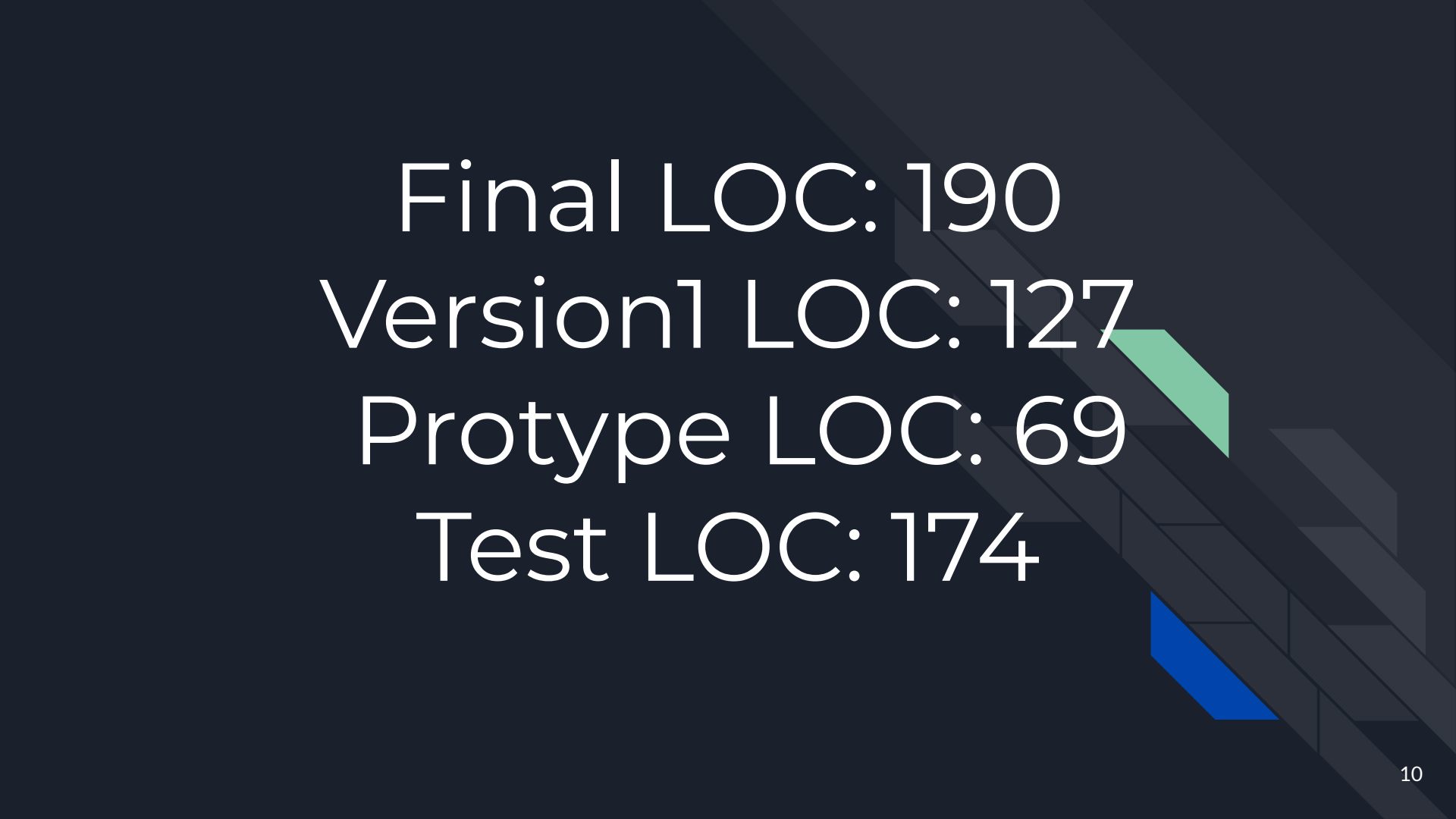
Querytask Command

The querytask command allows users to see all database entries that have the same task.

```
Enter command: querytask java
Matching records for task java:
(2, '2023/12/08', '02:00', '03:43', '1:43:00', 'java', 'study')
(3, '2023/12/09', '01:00', '06:00', '5:00:00', 'java', 'study')
```

Final LOC: 190
Version1 LOC: 127
Protype LOC: 69
Test LOC: 174