

# Time Management Application Requirements

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User: Jack

Record Time

## 1. User Story:

- As a user, I want to record my time usage using a command-line interface (CUI) with the following format: "DATE FROM TO TASK TAG".

## 2. Format Flexibility:

- As a user, I expect the application to allow me to specify the date using formats like "2022/09/23" and enable adding AM or PM to the FROM or TO time.

## 3. Example Usage:

- As a user, I would want to type the following command to record my time usage in the database:

```
record today 09:30 10:30 'studied Java' STUDY
```

Query Time Usage

## 4. User Story:

- As a user, I expect to query my time usage from the database using a CUI with the following options:
  - Query by DATE: "query today"
  - Query by TASK: "query 'Java'"
  - Query by TAG: "query STUDY"

## 5. Example Usage:

- As a user, I would want to type the following commands to query my time usage:

```
query today  
query 'Java'  
query STUDY
```

## Additional Features Requested by Jack

Generate Time Usage Report

## 6. User Story:

- As a user, I would want to generate a time usage report within a specified date range, providing all activities during that period.

#### 7. **Example Usage:**

- As a user, I expect to type the following command to generate a time usage report for the specified date range:

```
report 2021/01/01 2022/01/01
```

### Priority Command

#### 8. **User Story:**

- As a user, I would want a priority command that provides a list of activities I spend the most time on.

#### 9. **Example Usage:**

- As a user, I expect to type the following command to get a list of activities I spend the most time on:

```
priority
```

## Technical Specifications

#### 10. **Programming Language:**

- As a user, I expect the application to be developed using Python.

#### 11. **Database:**

- As a user, I expect SQLite to be used for the database, leveraging Python's standard SQLite package.