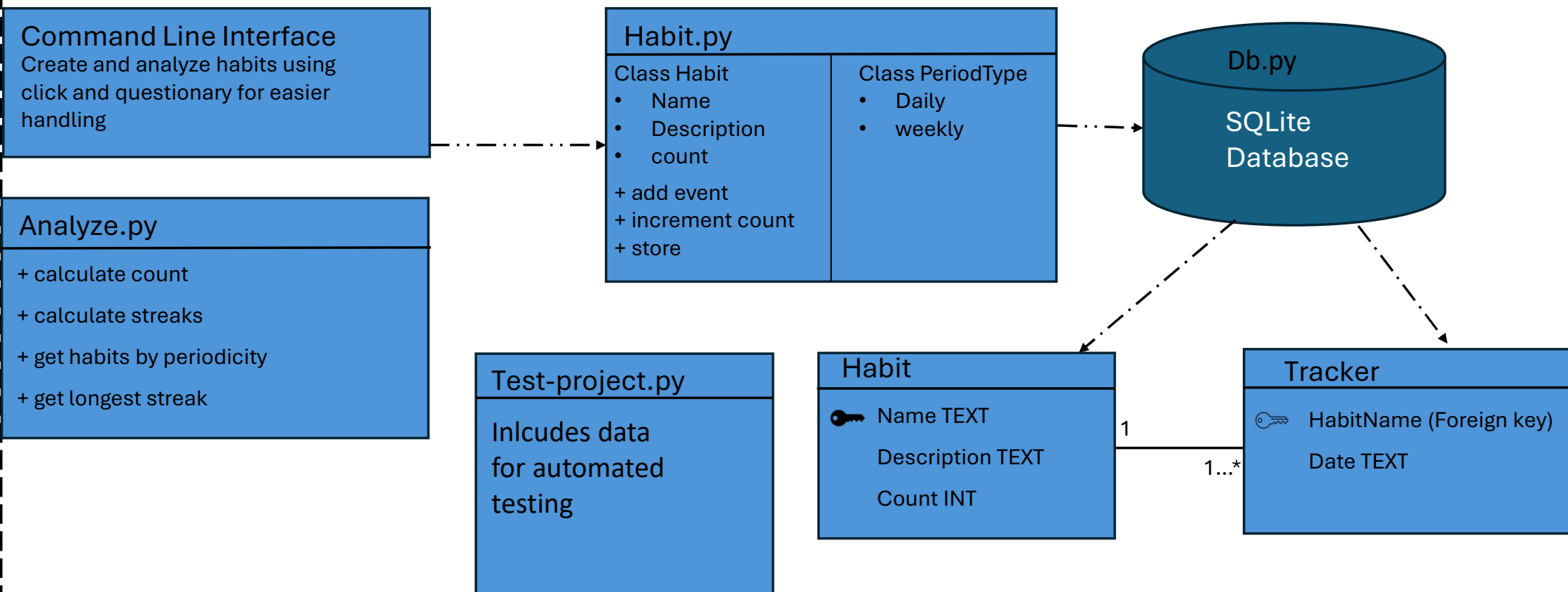


Portfolio Assignment for the course Object Oriented and Functional Programming with Python

<https://github.com/annabanananana/habit>

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Overview of App Components



Overview of technology choices

Used technologies for developing the app:

- Python 3.11.1
- Questionary
- Click
- Tabulate
- Pytest

Purpose of the app

- Create habits of your choice
- Chose whether you want to do them daily or weekly
- Track the dates when you carried out the habit
- Get a list of all habits
- Filter your habits by periodicity
- Analyze your habits to see how well you stick to them

How to use the app – habit creation

- Use the command line interface (CLI) to use the app
- The screenshot on the right shows the different possible commands and how to create and increment habits

```
Commands:
analyze  Analyze the habit's execution data and show an overview
create   Create a new habit
exit-cli Exit the habit tracker CLI
filter   Filter and display habits by periodicity (DAILY or WEEKLY).
increment Increment the habit's event count
show     Show all habits

PS C:\Users\annaj\habit> python main.py create
? What is the name of your habit? Tennis
? What is the period type? Weekly
Habit 'Tennis' created successfully as a weekly habit.
PS C:\Users\annaj\habit> python main.py increment
? Which habit do you want to increment? Tennis
Habit 'Tennis' has been incremented.
PS C:\Users\annaj\habit> python main.py increment
? Which habit do you want to increment? Tennis
Habit 'Tennis' has been incremented.
PS C:\Users\annaj\habit> python main.py create
? What is the name of your habit? clean-up
? What is the period type? Daily
Habit 'clean-up' created successfully as a daily habit.
PS C:\Users\annaj\habit> 
```

How to use the app - show and filter habits

- Use the „show“ command to get a list of your habits and their periodicity
- Use the „filter“ command to chose to get a list of daily or weekly habits

```
• PS C:\Users\annaj\habit> python main.py show
Here are your current habits:
- Tennis: Weekly
- clean-up: Daily
• PS C:\Users\annaj\habit> python main.py filter
Enter the period type (DAILY or WEEKLY) (DAILY, WEEKLY): daily
Habits with DAILY periodicity:
- clean-up
```

How to use the app - analyze

- Use the „analyze“ command to get a table of your habits showing periodicity, total count of execution, the current run streak and the longest run streak

```
PS C:\Users\annaj\habit> python main.py analyze
```

Habit Name	Period Type	Total Count	Current Streak	Max Streak
Tennis	Weekly	2	2	2
clean-up	Daily	3	3	3

How to use the app - exit-cli

- Use the „exit-cli“ command to stop the application

```
• PS C:\Users\annaj\habit> python main.py exit-cli  
Goodbye!
```