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Bachelor / Artificial Intelligence
Object Oriented and Functional Programming
with Python
Development Phase (DLBDSOOFPP01)

Habit-Tracking Application

Requirements

prettytable==3.5.0

questionary~=1.10.0

pytest~= 7.2.0

Classes

CreateHabit

- This class is responsible for creating a habit and storing it in database.
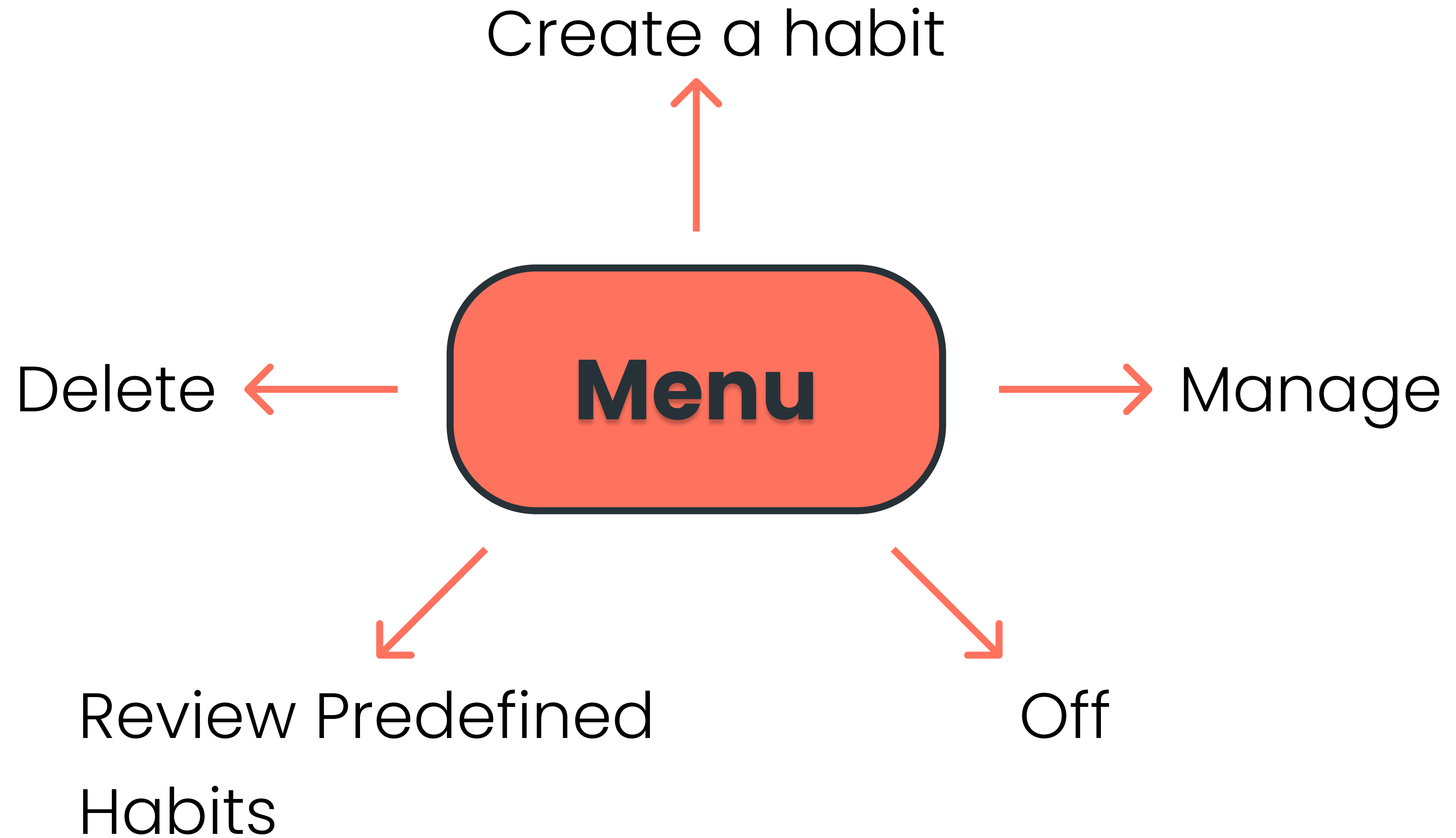
ManageHabit

- Once a habit has been created, it needs to be marked, which will be done via this class. Users will also be able to change the name and the frequency of existing habits. Additionally, this class is responsible for analytics module.

PredefinedHabits

- Shows all predefined habits in a pretty table.

DeleteHabit

- This class will delete a habit(s) manually or automatically after the duration expires.

Create a habit


```
? Please select:
Create a habit
? Please type a name for your new habit:  workout
? Frequency for your habit daily
? Duration for your habit (e.g 10 days/6 weeks/2 months):  2 months
|---------+-----------+-------------+------------+-----------+-------------------+-------------+-----------------|
|  Name   | Frequency | Periodicity | Start Date | Check-off | Last Updated Day  | Streak Days | Longest St. Days |
|---------+-----------+-------------+------------+-----------+-------------------+-------------+-----------------|
| workout |   daily   |  2 months   | 24/01/2023 |     0     |         -         |      0      |        0        |
|---------+-----------+-------------+------------+-----------+-------------------+-------------+-----------------|
```

Manage (edit)

```
? Please select:
 Manage
? Please select:
 Edit a habit
? Please select:
 workout
? What do you want to change?
 name
? Please type a new value:  go to the gym
|---------------+----------+------------+------------+-----------+------------------+-------------+----------------|
|     Name      | Frequency | Periodicity | Start Date | Check-off | Last Updated Day | Streak Days | Longest St. Days |
|---------------+----------+------------+------------+-----------+------------------+-------------+----------------|
| go to the gym |   daily   |  2 months  | 24/01/2023 |     0     |        -         |      0      |        0        |
|---------------+----------+------------+------------+-----------+------------------+-------------+----------------|
```

Manage (mark)

```
? Please select:
Manage
? Please select:
Check
? Please select:
go to the gym
|--------------+-------------+-------------+------------+-----------+------------------+-------------+-----------------|
|     Name     | Frequency | Periodicity | Start Date | Check-off | Last Updated Day | Streak Days | Longest St. Days |
|--------------+-------------+-------------+------------+-----------+------------------+-------------+-----------------|
| go to the gym |    daily   |  2 months   | 24/01/2023 |     1     |    24/01/2023    |      1      |        1         |
|--------------+-------------+-------------+------------+-----------+------------------+-------------+-----------------|
```

Manage (report)

```
? Please select:
Manage
? Please select:
Report
? Please select:
All habits

|-------------+-----------+------------+------------+-----------+------------------+-------------+-----------------|
|     Name    | Frequency | Periodicity | Start Date | Check-off | Last Updated Day | Streak Days | Longest St. Days |
|-------------+-----------+------------+------------+-----------+------------------+-------------+-----------------|
| go to the gym |  daily  |  2 months  | 24/01/2023 |     1     |    24/01/2023    |      1      |        1        |
|-------------+-----------+------------+------------+-----------+------------------+-------------+-----------------|
```

- You can view all habits / one specific / daily habits / weekly habits

Predefined Habits

```
? Please select:
Review Predefined Habits

|---------------+----------+------------+------------+-----------+-----------------+-------------+----------------|
|      Name     | Frequency | Periodicity | Start Date | Check-off | Last Updated Day | Streak Days | Longest St. Days |
|---------------+----------+------------+------------+-----------+-----------------+-------------+----------------|
|    reading    |   daily   |  4 months  | 13/01/2023 |     3     |    18/01/2023   |      1      |        2       |
|    workout    |   daily   |  6 months  | 14/01/2023 |     4     |    18/01/2023   |      1      |        3       |
|  dance class  |   weekly  | 15 months  | 15/01/2023 |     1     |    15/01/2023   |      1      |        1       |
|  korean class |   weekly  | 18 months  | 16/01/2023 |     1     |    16/01/2023   |      1      |        1       |
|    coding     |   daily   | 15 months  | 17/01/2023 |     2     |    18/01/2023   |      2      |        2       |
|---------------+----------+------------+------------+-----------+-----------------+-------------+----------------|
```

Delete

```
? Please select:

Delete

? Please select the habit you want to delete:  go to the gym
```