



INTERNATIONALE
HOCHSCHULE

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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

python-dateutil~=2.8.2

pytest~= 7.2.0

Classes

CreateHabit

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

ManageHabit

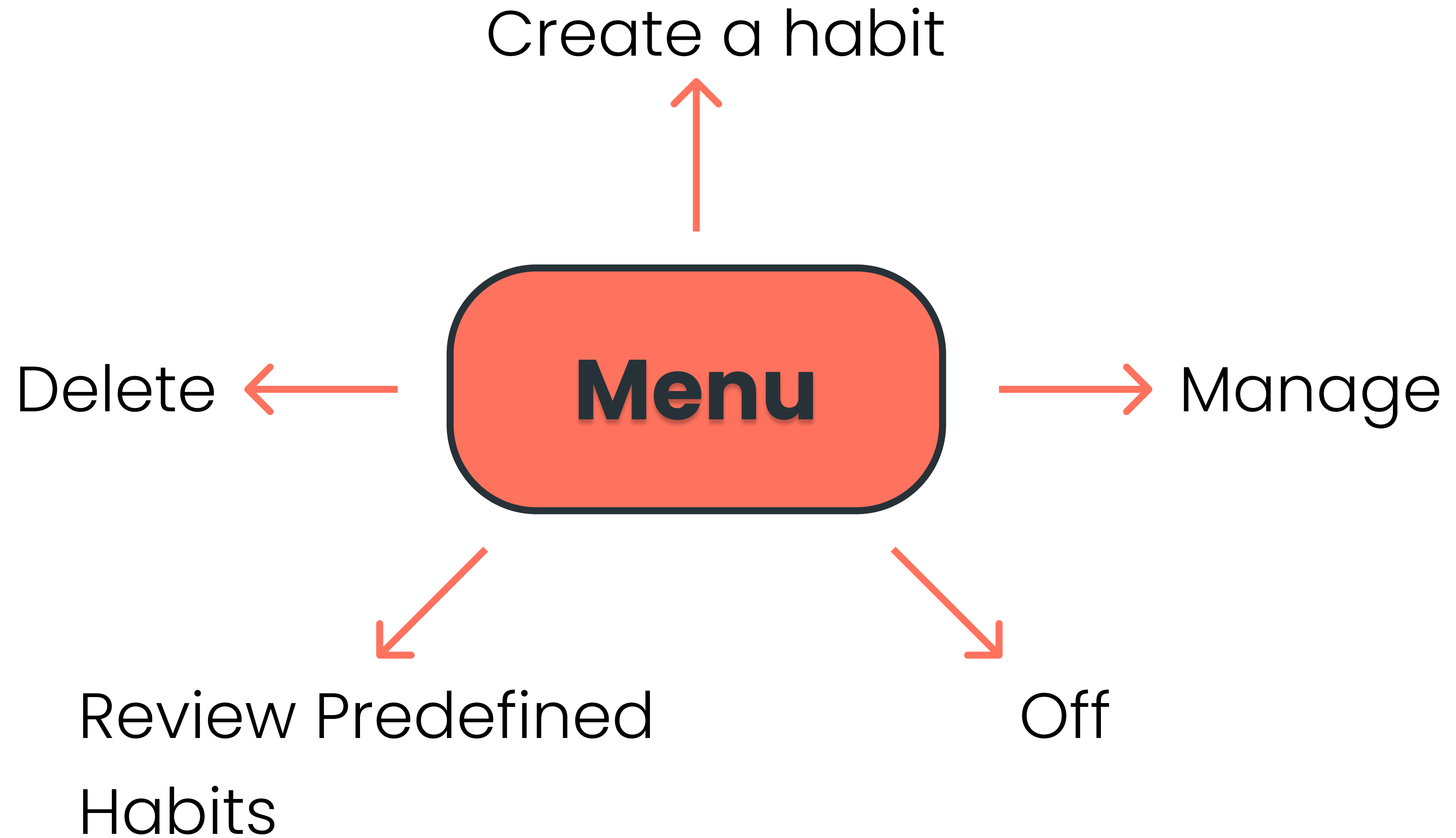
- Once a habit has been created, it needs to be marked, which will be done via this class. Users will also be able to change the name and the frequency of existing habits. Additionally, this class is responsible for analytics module.

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): 6 weeks

Unitset for your habit (e.g. 30 minutes/2 hours): 45 minutes

```
When do you want to start? (DD/MM/YYYY): 10/01/2023
```

Name	Frequency	Periodicity	Unitset	Start Date	End Date	Check-off	Last Updated Day	Streak Days
workout	daily	6 weeks	45 minutes	10/01/2023	21/02/2023	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
```

Manage (mark)

? Please select:

Manage

? Please select:

Check

? Please select:

go to the gym

Manage (report)

? Please select:

Manage

? Please select:

Report

? Please select:

All habits

-----+-----+-----+-----+-----+-----+-----+-----+-----+-----									
Name Frequency Periodicity Unitset Start Date End Date Check-off Last Updated Day Streak Days									
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----									
go to the gym daily 6 weeks 45 minutes 10/01/2023 21/02/2023 1 11/01/2023 1									
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----									

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

Predefined Habits

? Please select:

Review Predefined Habits

-----+-----+-----+-----+-----+-----+-----+-----+-----+-----									
Name	Frequency	Periodicity	Unitset	Start Date	End Date	Check-off	Last Updated Day	Streak Days	
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----									
coding	daily	6 weeks	2 hours	01/12/2022	12/01/2023	4	15/12/2022	1	
dancing	weekly	3 months	2 hours	04/12/2022	04/03/2023	2	18/12/2022	2	
walking	daily	10 weeks	30 minutes	10/12/2022	18/02/2023	2	13/12/2022	2	
reading	daily	2 months	15 minutes	12/12/2022	12/02/2023	1	13/12/2022	1	
korean	weekly	150 days	2 hours	15/12/2022	14/05/2023	1	15/12/2022	1	
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Delete

? Please select:

Delete

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