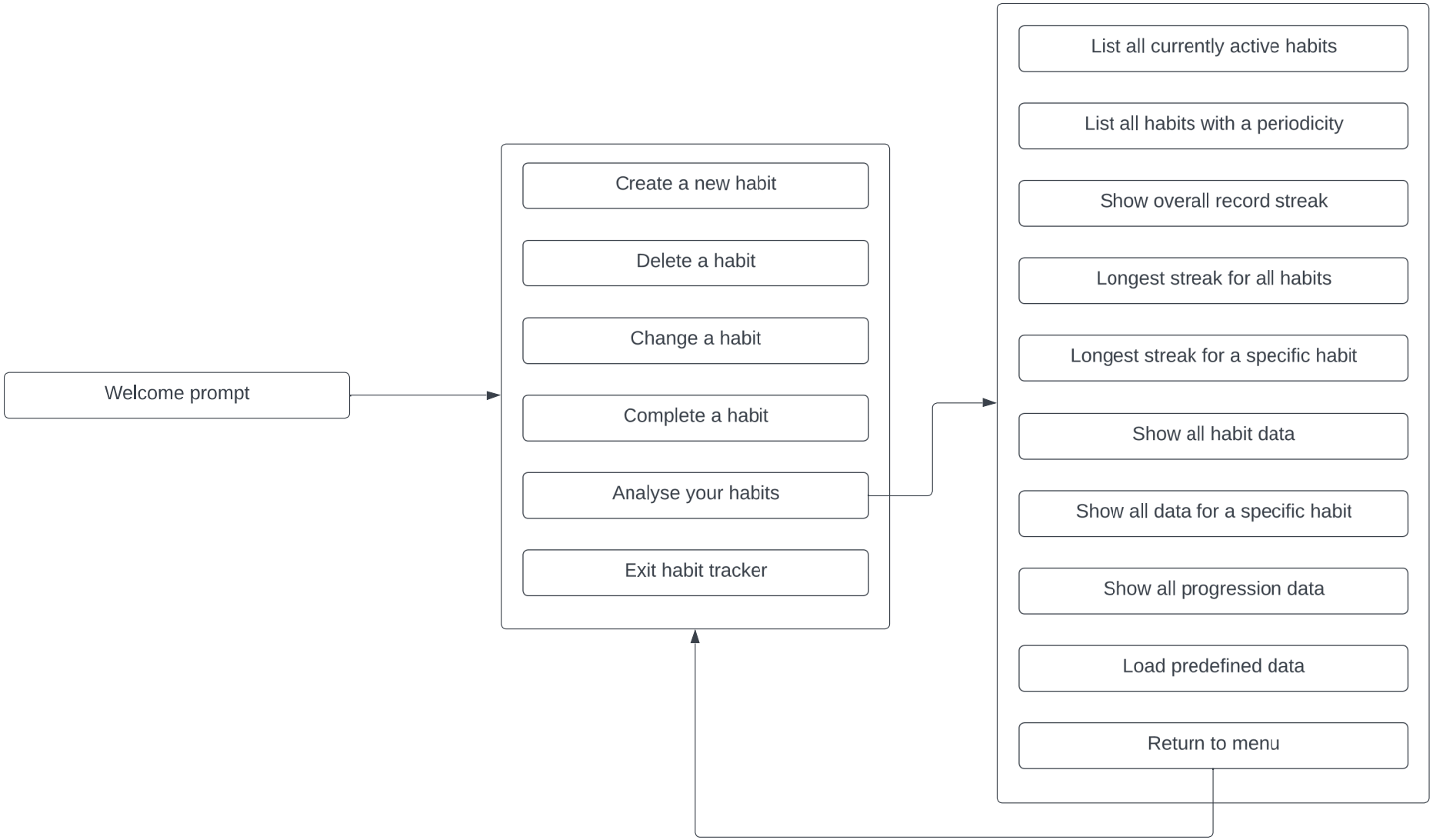
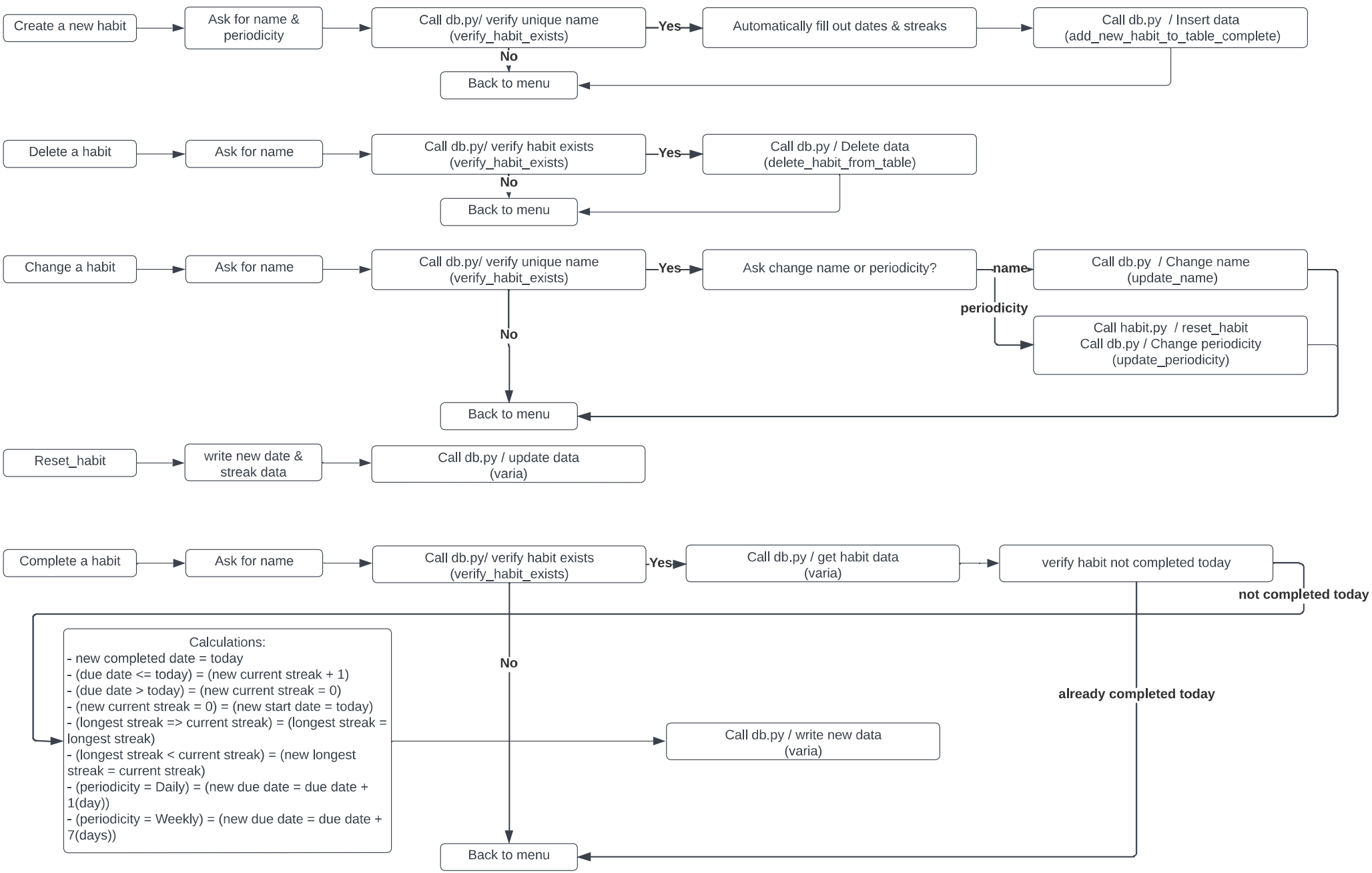
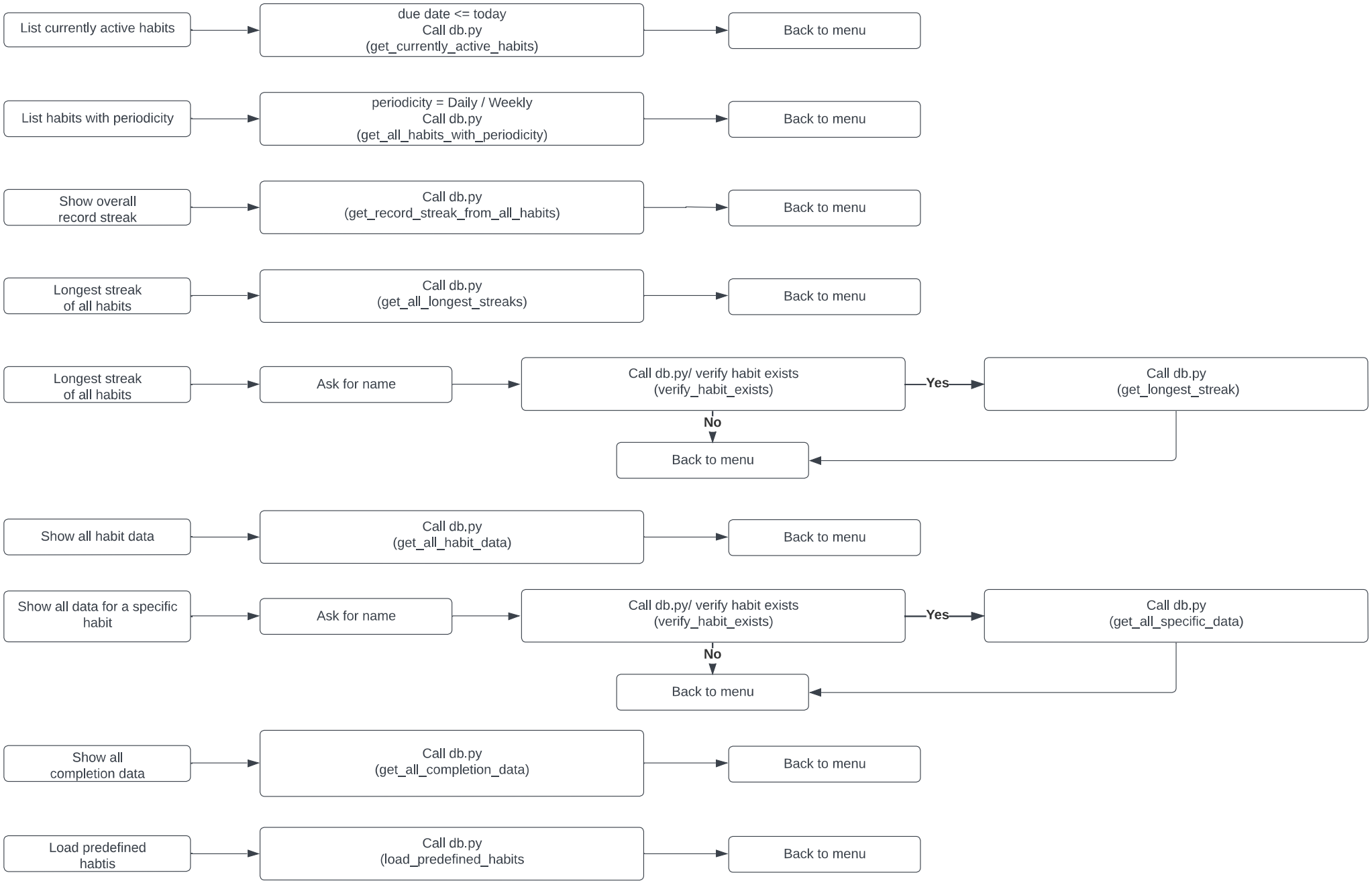
# Navigation


Welcome prompt
Create a new habit
Delete a habit
Change a habit
Complete a habit
Analyse your habits
Exit habit tracker
List all currently active habits
List all habits with a periodicity
Show overall record streak
Longest streak for all habits
Longest streak for a specific habit
Show all habit data
Show all data for a specific habit
Show all progression data
Load predefined data
Return to menu

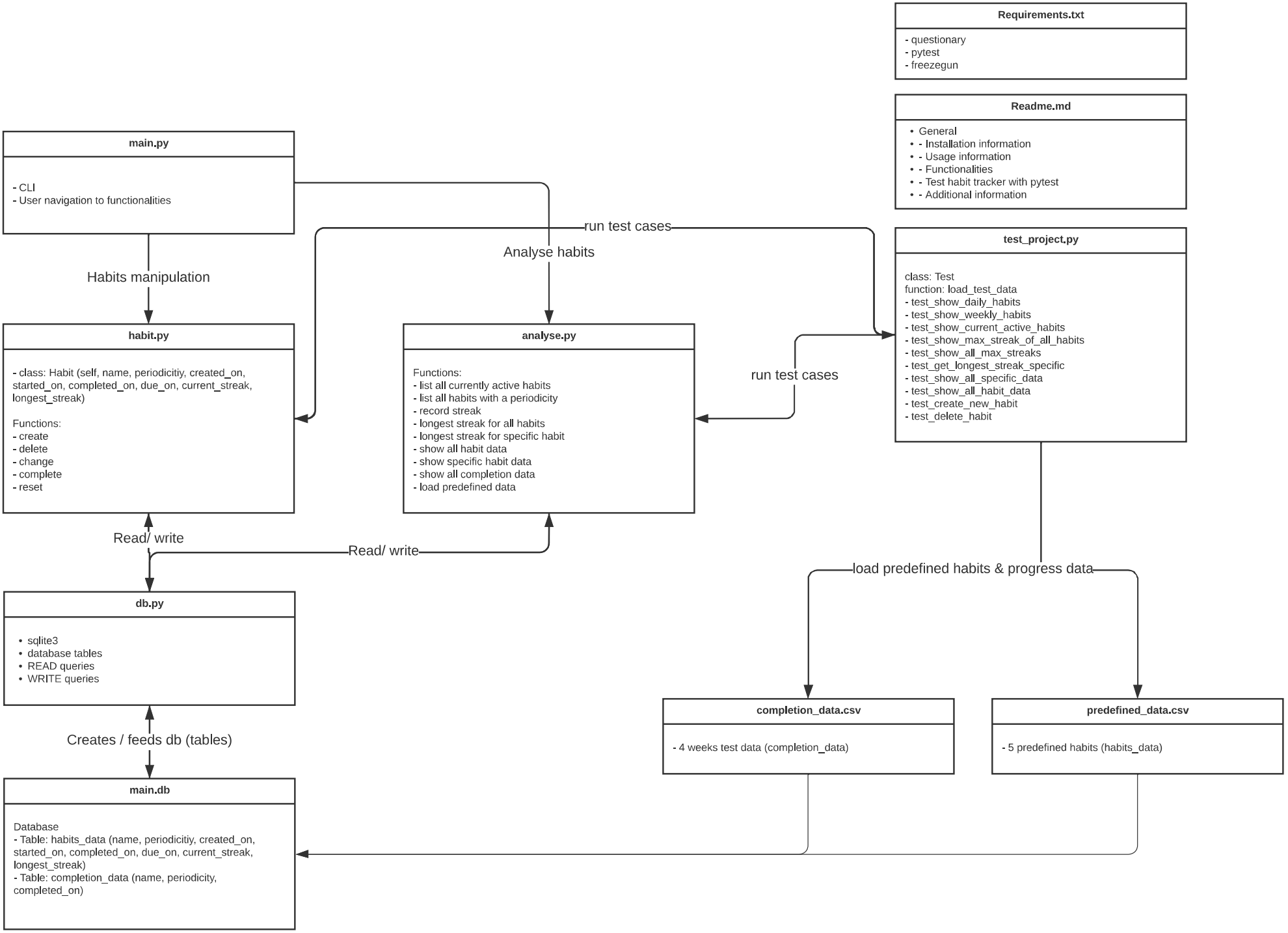
# habit.py


Create a new habit
Ask for name & periodicity
Call db.py/ verify unique name (verify_habit_exists)
Yes
Automatically fill out dates & streaks
Call db.py / Insert data (add_new_habit_to_table_complete)
No
Back to menu
Delete a habit
Ask for name
Call db.py/ verify habit exists (verify_habit_exists)
Yes
Call db.py / Delete data (delete_habit_from_table)
No
Back to menu
Change a habit
Ask for name
Call db.py/ verify unique name (verify_habit_exists)
Yes
Ask change name or periodicity?
name
Call db.py / Change name (update_name)
periodicity
Call habit.py / reset_habit
Call db.py / Change periodicity (update_periodicity)
No
Back to menu
Reset_habit
write new date & streak data
Call db.py / update data (varia)
Complete a habit
Ask for name
Call db.py/ verify habit exists (verify_habit_exists)
Yes
Call db.py / get habit data (varia)
verify habit not completed today
not completed today
Calculations:
- new completed date = today
- (due date <= today) = (new current streak + 1)
- (due date > today) = (new current streak = 0)
- (new current streak = 0) = (new start date = today)
- (longest streak => current streak) = (longest streak = longest streak)
- (longest streak < current streak) = (new longest streak = current streak)
- (periodicity = Daily) = (new due date = due date + 1(day))
- (periodicity = Weekly) = (new due date = due date + 7(days))
No
Call db.py / write new data (varia)
already completed today
Back to menu

# Analyse.py


List currently active habits
due date <= today
Call db.py
(get_currently_active_habits)
Back to menu
List habits with periodicity
periodicity = Daily / Weekly
Call db.py
(get_all_habits_with_periodicity)
Back to menu
Show overall
record streak
Call db.py
(get_record_streak_from_all_habits)
Back to menu
Longest streak
of all habits
Call db.py
(get_all_longest_streaks)
Back to menu
Longest streak
of all habits
Ask for name
Call db.py/ verify habit exists
(verify_habit_exists)
Yes
Call db.py
(get_longest_streak)
No
Back to menu
Show all habit data
Call db.py
(get_all_habit_data)
Back to menu
Show all data for a specific
habit
Ask for name
Call db.py/ verify habit exists
(verify_habit_exists)
Yes
Call db.py
(get_all_specific_data)
No
Back to menu
Show all
completion data
Call db.py
(get_all_completion_data)
Back to menu
Load predefined
habtis
Call db.py
(load_predefined_habits
Back to menu

# Overview


Requirements.txt
- questionary
- pytest
- freezegun
Readme.md
• General
• - Installation information
• - Usage information
• - Functionalities
• - Test habit tracker with pytest
• - Additional information
main.py
- CLI
- User navigation to functionalities
Habits manipulation
run test cases
Analyse habits
test_project.py
class: Test
function: load_test_data
- test_show_daily_habits
- test_show_weekly_habits
- test_show_current_active_habits
- test_show_max_streak_of_all_habits
- test_show_all_max_streaks
- test_get_longest_streak_specific
- test_show_all_specific_data
- test_show_all_habit_data
- test_create_new_habit
- test_delete_habit
habit.py
- class: Habit (self, name, periodicitiy, created_on, started_on, completed_on, due_on, current_streak, longest_streak)
Functions:
- create
- delete
- change
- complete
- reset
analyse.py
Functions:
- list all currently active habits
- list all habits with a periodicity
- record streak
- longest streak for all habits
- longest streak for specific habit
- show all habit data
- show specific habit data
- show all completion data
- load predefined data
run test cases
Read/ write
Read/ write
load predefined habits & progress data
db.py
• sqlite3
• database tables
• READ queries
• WRITE queries
completion_data.csv
- 4 weeks test data (completion_data)
predefined_data.csv
- 5 predefined habits (habits_data)
Creates / feeds db (tables)
main.db
Database
- Table: habits_data (name, periodicitiy, created_on, started_on, completed_on, due_on, current_streak, longest_streak)
- Table: completion_data (name, periodicity, completed_on)