

Test Cases

Black-Box Test Cases

These test cases are defined based on the available documentation and execution of the program. The code was not inspected.

#	Test case (very brief description)	Preconditions (any required setup)	Test steps (steps executed during testing)	Expectation	Observation ("pass" or failure description)
1	Test the changing habits functionality (renaming title) (GUI)	Existence of user Existence of a habit	Click change habit, rename title, click change habit	Habit title is changed on the spot without adding a new habit	Failure (a new habit was added to the main screen, only after restarting the old habit disappears)
2	Test the changing habits functionality (change frequency) (GUI)	Existence of user Existence of a habit	Click change habit, change frequency and weekdays, change habit	The frequency of habit and the days are adapted	Failure (Frequency adapts but the days are not saved)
3	Test the weekdays when creating a new habit (GUI)	Existence of user	Add new habit, select title and weekdays, save, change habit to see settings	Settings are the same as created before, habit only shows on those dates	Failure (weekdays do not save + habit always shows)
4	Test the change habit button when no habits are there (GUI)	Existence of user	Click change habit	Nothing happens, no errors	Failure (shows error)
5	Test creating new User (GUI)	-	Click create new User, choose username	New User gets created	pass
6	Test creating new habit for new User (GUI)	-	Create new User, Click add new Habit, fill out Name, Description, ...	Habits appear in List	Habits sometimes do not appear, only appear after restarting the

					application (inconsistent)
7	Test creating new habit for existing User (GUI)	Selected User	Click add new Habit, fill out form	Habit appears in List	pass
8	Test changing selected User (GUI)	2 different Users	Click change User, select other User	Switches selected User to new User	pass
9	Test Habit deletion (GUI)	User with Habits	Click delete Habit, select Habit to delete, click ok	Habit disappears from List	pass
10	Test User deletion (GUI)	User	Click delete current User	User gets deleted	pass
11	Test Habit deletion without Habits (GUI)	User without Habits	Click delete Habit	Information dialog pops up	pass
12	Test User deletion without selected User (GUI)	-	Have no User selected, click delete current User	Information dialog about not having a User selected pops up	No indication that anything happened
13	Test creating or changing a Habit without selected User	-	Have no User selected, click on add new Habit or change Habit	Information dialog about not having a User selected pops up	pass
14	Test starting to create a Habit on a User but then changing the User	2 different Users	Have one User selected, click add new Habit, select other User, create Habit	Habit creation stops	Habit gets created for new User

White-Box Test Cases

These additional test cases were defined during inspection of the code.

#	Test case (very brief description)	Preconditions (any required setup)	Test steps (steps executed during testing)	Expectation	Observation ("pass" or failure description)
1	Test the user creation	Connected Database	Create a test User, give it a name	User gets created and is added to the Database	pass
2	Test the habit creation for users	Existence of user	Previous steps, create some test habits, add them to a User	Habits get created, habits are added to the user, habits are added to the Database	pass
3	Test the days of habits that have been done	Existence of done habits	Previous steps, check if habits marked as done show the correct date	Habits done date is correctly set	pass
4	Test if habits are correctly marked done	Existence of habits	Previous steps, mark habits as done(today)	Habits are correctly marked as done	pass
5	Test the habit deletion	Existence of habits	Previous steps, delete the test habits	Habits are removed from the User and the Database	pass
6	Test the user deletion	Existence of user	Previous steps, delete the test User	User gets removed from Database, user can not be accessed from User vector	User does get removed from Database, but not from User vector (addressed in user_del button callback, but not inside user deletion method)