

Product name: RouTeam

Team Name: Habit Tracker with Friends

Project Owner: Katrin Pistor

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System and Unit Test Report

Sprint 1 features:

❖ Login page (front-end)

- Tests ran: .
 - ➔ Navigates to the Home Page.
 - ➔ Check if the UI sketch is similar to what we decided.
- Bugs found: None
- Debugging solutions: None

❖ Register page (front-end)

- Tests ran:
 - ➔ Check if the UI sketch is similar to what we decided.
- Bugs found: None
- Debugging solutions: None

Sprint 2 features:

❖ Firebase database setup

- Tests ran:
 - Compiling of imported modules across all developer environments
- Bugs found:
 - Every user had issues with the importing of the Firebase module
- Debugging solutions:
 - Katrin figured a universal module path that worked for everyone

❖ User authentication/login page

- Tests ran:
 - Empty input on registration
 - Checking if databases correctly stores all the user data
 - User is able to login into the app, and navigate to the home page
 - Doesn't work with invalid email address
 - Doesn't work with invalid password
 - Registering pre-existing users
- Bugs found:
 - None
- Debugging solutions:
 - N/A

❖ User authentication/register page

- Tests ran:
 - Empty input on registration

- Checking if the database correctly stores all the user data.
- Doesn't work with invalid email address
- Doesn't work with invalid password
- Creating new user accounts
- Is able to login even from the login screen
- Bugs found:
 - None
- Debugging solutions:
 - None

❖ **Camera functionality/Save screen**

- Tests ran:
 - Ran on multiple devices
 - Navigate to the page from different habits/pages
- Bugs found:
 - Would work on web but not on mobile devices
 - Passing the uri proved to be difficult
- Debugging solutions:
 - Had other team members take a look at it
 - Printed to console important information

❖ **Transfer of user data from back-end to front-end (profile and habit data)**

- Tests ran:
 - Checking multiple different accounts
 - Registering new user and checking their account
 - Deleting habit and checking profile update
 - Creating new habit and checking for profile update
- Bugs found:
 - Incomplete user data would crash the app
 - New habits were not displaying correctly
- Debugging solutions:
 - Ensure that upon a new user creation that all fields were set
 - Use update for some fields instead of set

❖ **Habit page (front-end and back-end)**

- Tests ran:
 - Ran on multiple platforms to test the UI
 - Different inputs when editing the motivation
 - Updating the streak for both of the 'record' options
 - Test the modal when the habit is completed (streak is reached)
- Bugs found:
 - Crashed when the updated motivation was left blank
 - Delete button would appear in different spots on different devices
 - Streak wouldn't update when modal popped up when completing a habit
- Debugging solutions:
 - Don't update the database if the user inputted an empty motivation

- Used 'space-between' to normalize the spacing on all devices
- Update the streak after the modal popped up (only works for normal record without camera)

❖ **Profile page (Front-end & Backend)**

➤ Tests ran:

- Checking if UI is similar to what we discussed
- FriendsList and signout button is visible.
- Clicking on the habit in your Profile pic takes you to record the habit for that day.
- The streak should change when the user records it normally or with a picture.
- Users can view their habits by clicking on the Gallery button.
- User Profile and data for habits is correctly fetched from the backend.
- Users are able to add a new habit by clicking on the plus icon.
- New change is visible in the database.
- Profile pic can be added, stored and fetched from the database.
- You are able to add a profile pic.
- Sign out button is functioning properly.
- Users are able to sign out.
- Logged in users can follow more people and view their habits.

Sprint 3 features:

❖ **Friend's list page (front-end & backend)**

➤ Tests ran:

- Adding friends to a user
- Checking UI for user without friends
- Checking if correct initials or profile picture display
- Adding a username that does not exist
- Adding a empty username

➤ Bugs found:

- Adding an empty username would crash app

➤ Debugging solutions:

- Adding modals to indicate to user if their input was invalid

❖ **Friend's profile page (Front-end & Backend)**

➤ Tests ran:

- Checking if UI is similar to what we discussed
- All the buttons are disabled except back to the Profile button.
- Clicking on the habit in the Friends Page takes you to images of the Friends Gallery.
- User Profile and data for habits is correctly fetched from the backend.
- Logged in user can see his or her friends' habits and their profile picture/username.

Sprint 4 features:

❖ User's image gallery

- Tests ran:
 - Initial attempt to load the image after recording habits
 - Attempting to display the images sorted by the date they were entered
- Bugs found:
 - Images were sorted during insertion into the array, but were still displayed out of order
 - Image size was distorted for odd number of images displayed
- Debugging solutions:
 - Sorted the image one more time during the insertion into the flat list
 - Limited the number of columns in the gallery grid to two

❖ Friend's image gallery

- Tests ran:
 - Friend gallery updates when friend adds new image
 - Navigation to friends habit gallery properly worked