MILESTONE 3

High fidelity prototypes

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SNACK & TRACK

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1. FINAL DESIGN

Before creating the app in React Native, we analysed again who made what prototypes in Milestone 2. We used the second design as a basis, but made improvements. There were few gamification elements in the app, so we took the idea of collecting xp points for completing certain tasks or challenges from the first and third designs. The fourth low-fidelity prototype was partially used for the profile design. In addition, the division into 2 diagrams took up too much space, so we combined the trend graphs into one element. Also, the interviews conducted during the previous task revealed a mismatch between the colours of the terms (calories were marked in turquoise and the level of water drunk in orange), so this mismatch was also corrected.

2. IMPLEMENTATION

We focused on implementing 4 screens (with some subcategories) according to the categories in the menu and the add button.

2.1. Home Screen

After registering/ logging in/ the user is taken to the main screen. The key element that attracts attention are the goal rings. The dark blue one is indicative for the number of kilometers walked, the orange one for the number of calories consumed, and the turquoise one for the amount of water drunk. The upper left corner shows how many consecutive days the user has successfully completed the rings. In the upper right corner, a calendar is displayed, which, when clicked, will show the rings for each day (implemented only in the low-fidelity prototype). The day of the week and date are displayed above the activity rings, and the left and right arrows allow switching between days. The next element is the progress bar, which shows the number of points for completed tasks. Below is a list of tasks for the day that can be ticked. The next section is an element that allows the user to see the number of calories consumed for a particular meal (Breakfast, Lunch, Dinner, Snack). Each meal is a drop-down list, so it is possible to see which dishes were consumed and their nutritional value.

2.2. Hubs Screen
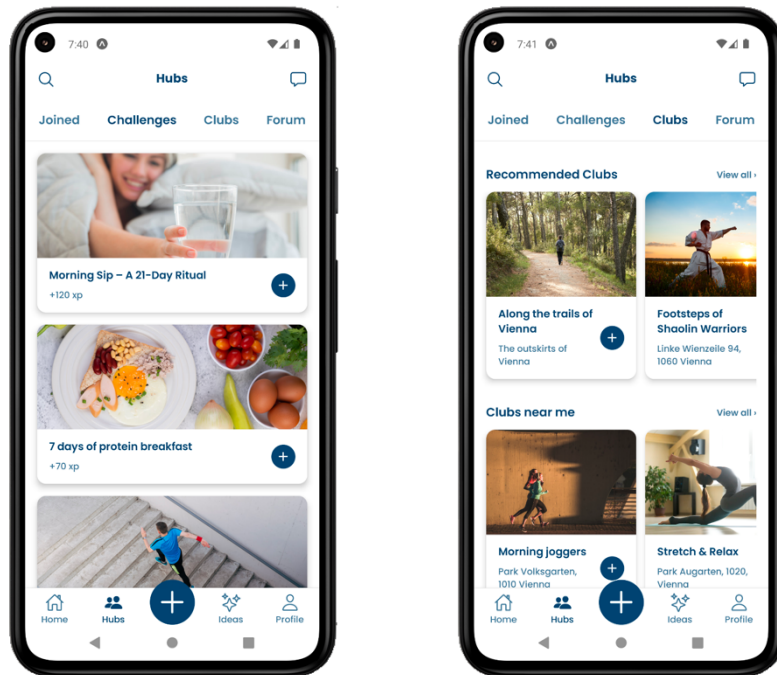
The next option in the lower navigation menu are "Hubs". Clicking it will take the user to the corresponding screen. There are 4 tabs on the screen (Joined, Challenges, Clubs, Forum). The "Challenges" tab contains a list of possible challenges that a person can accept by clicking the plus icon. Under the name of the challenge there is a number of points that a person can receive after completion. Another tab is "Clubs". Clubs are divided into categories and are located in a horizontal card slider. Also, by clicking on the plus sign, it is possible to join a particular club. The first tab is "Joined". It contains a list of challenges and clubs that a person has joined, as well as buttons for creating your own clubs and challenges (implemented only in low-fidelity prototype). The last category is a forum where people can ask questions (not implemented). In the upper right corner, there is a button to go to personal messages, and in the upper left corner, there is a search among the names of clubs and challenges.

2.3. Ideas Screen
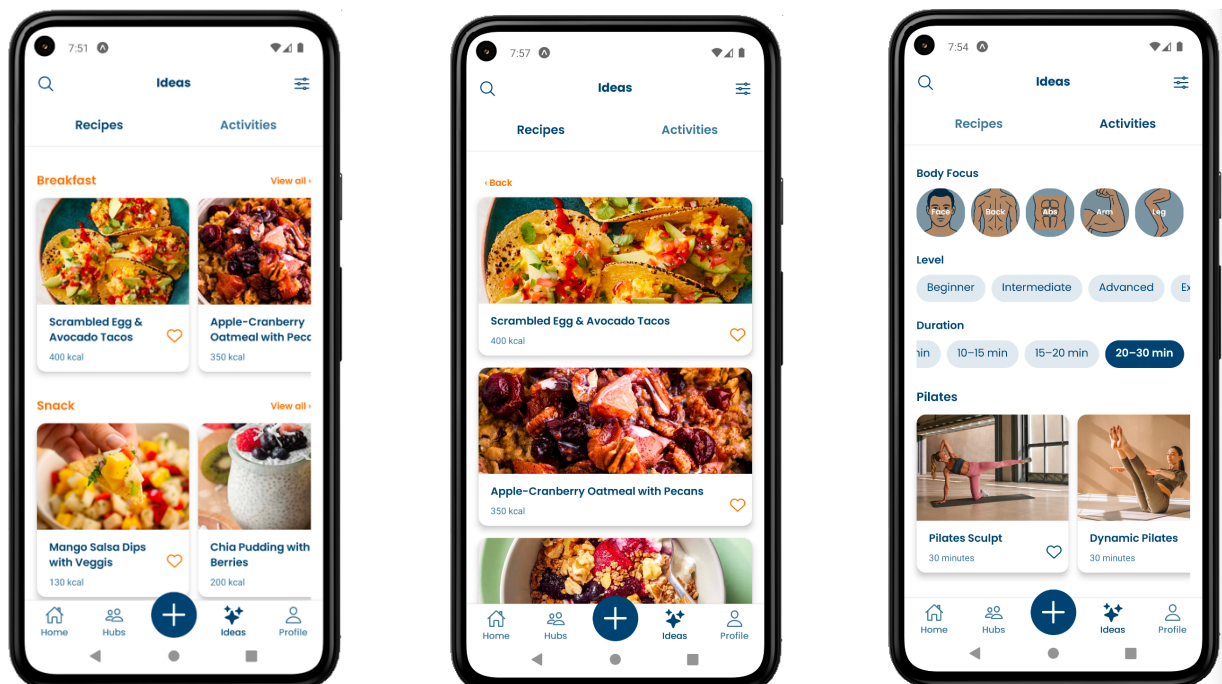
The third option in the navigation menu are "Ideas". There are two tabs related to recipe ideas and sports. The tab with recipes has horizontal sliders with cards according to the category of meals. By clicking on the "View all" button, all the recipes that belong to a particular meal can be shown. Each card has a heart on it, and by clicking on it, the dish is added to the list of favorite dishes (the list is in the profile screen). In the upper right corner, there is an option to filter dishes, where it is possible to sort by meals, calories, ingredients, diets, and cultural affiliation (implemented in low-fidelity prototypes). The tab for ideas of physical activities allows to choose the exercise video based on the focus on which part of the body, the level of difficulty, and the duration. Below there are videos grouped by type of sport. Similarly to dishes, user can also like a video so that it appears in the list of favorite sports activities.

2.4. Profile Screen & Plus Button

The last option is the profile screen. At the top, the user's photo, the email address with which the user is logged in, and other personal information are displayed. The progress bar is located below. The user can see at what level he or she is, how many points was collected (points from daily tasks, located in "Home" screen and points from completed challenges are added). The next element is the trend chart. There are three different graph options between which the user can switch depending on the data (distance, calories, hydration). Below the graph is a list of favorite recipes and favorite sport activities. In the upper right corner, there are settings and the ability to share your progress in social media. In the upper left corner, there is an option to view the generated QR code. Other users can quickly scan it during an offline meeting to communicate with the person in the future (the option to communicate is located in the upper right corner of the Hubs option).

In the bottom navigation menu, there is a large "Plus" button in the centre. It is designed to quickly add data to the application. The user can record physical activity (running, cycling, etc.) and enter the amount of water drunk. The last two buttons are related to adding the number of calories. The first option is to manually enter the data if it is known what kind of product, brand and exact weight. The second option is to take a photo of the dish or product, and then artificial intelligence will calculate the estimated calorie amount.

Link to our GitHub: https://github.com/Madmod16/m3hciss25

3. TASK DIVISION

Denys-Lev Gusti	Screen "Home", screen "Plus", adding a library with icons, final unification of the project, generation of APK file
Shevkoplias Sofiia	Creation of final mock-ups in Figma, 2 screens in category "Hubs", M3 app description, M3 document formatting
Sokyruk Yeva	2 screens in category "Ideas", adding a library with fonts
Hriazin Ivan	Creation a project on GitHub and adding of teammates, Screen "Profile"