

FINAL REPORT

1. Project name, value proposition, team members' names, and group name.

- Project name: Stress-Bye
- Value proposition: Stress Bye: your time, your way.
- Group name: Byte-Us
- Team members' names:
 - Farisan Fekri
 - Zahra Shafaie
 - Francesco Virga
 - Nicola Sinisi

2. Problem/solution overview

The chosen solution is the "Accurate Timetable," designed to help users maintain organization and foresight regarding their upcoming commitments, thus aiding in stress management. By utilizing a planner that effectively meets their needs, users can ensure they allocate personal time amidst their work schedules.

3. Needfinding

a. Description of the domain of interest within your theme, and why you choose it.

Domain of interest: Individuals in their young adulthood, specifically those aged 20 to 30 years who are employed and grappling with stress management challenges.

Why this focus? We selected this demographic—employed young adults in their 20s to early 30s—due to the common occurrence of stress as they endeavor to establish their careers and personal lives simultaneously. Our primary objective with this initiative is to assist in alleviating stress among this group.

b. Interviews

Methodology and procedure (who you interviewed, where the interviews were conducted, list of questions, team member roles, used materials, etc.).

Who you interviewed?

1. Lorenzo R

- Immediate User
- Male , 23 years old
- Works as IT manager since 2020
- Introduced by a friend's friend
- He is an employee and he is between 20 and 30 , also he deals with stress management issues because of his job

2. Parisa Ab

- Immediate User
- Female , 24 years old
- Is a student and works part-time
- Introduced by friend's friend
- She works more than 20 hours a week and is between 20 and 30 , sometimes she deals with stress because of her job. So she can be an appropriate interviewee.

3. Adriana DG

- Immediate user
- Female , 23 years old
- Works as children teacher part time and works on her thesis at the same time
- Introduced by a colleague
- She is stressed because of her hard job and she is between 20 and 30

4. Pietro C

- Immediate user
- Male , 28 years old
- Introduced by a colleague
- He works as project manager in a company since 2022
- He deals with stress because of his job and he is between 20 and 30 so he is an immediate user

5. Maria AS

- Lead user
- Female , 24 years old
- Introduced by a colleague
- She works as industrial engineer in a food sector since 2022
- She deals with stress because of her job and she is between 20 and 30. She asked for help from a therapist because of stress management issues so she is a lead user.

6. Marcella T

- Lead user

- Female , 25 years old
- Introduced by a colleague
- She works as researcher in medical fields since Feb 2023
- She deals with stress because of her job and she is between 20 and 30.
She asked for help from a therapist because of stress management issues so she is a lead user.

7. Michael C

- Lead user
- Male , 23 years old
- Introduced by a friend
- He works as loyalty specialist since 2022
- He deals with stress because of her job and she is between 20 and 30.
He asked for help to a therapist because of stress management issues so he is a lead user

8. Woody

- Domain expert
- Male , 40 years old
- Introduced by a friend
- He works as psychologist
- He has patients who are dealing with stress management and has enough experience in the field of stress management.

Where the interviews were conducted?

In member's house:

- Pietro C
- Michael C

Through video call (Google Meet) :

- Parisa AB (in her context, University)
- Maria AS
- Marcella T
- Lorenzo R
- Adriana DG
- Woody

List of questions

a. Immediate user:

- 1) Can you describe your daily routine ?
- 2) For how long have you been working ?
- 3) What's the most difficult part of your job in your opinion ?
- 4) Can you name 3 good things and 3 bad things about your job ?
- 5) How do you evaluate your salary with respect to the effort you do in your job, on a scale of 1 to 5, with 1 being extremely dissatisfied and 5 being completely satisfied?
- 6) Can you describe any specific incidents or experiences that particularly heightened your stress levels ?

- 7) How did you understand that you are stressed ?
- 8) When did you start feeling stressed ?
- 9) Have you noticed any changes in the way you behave ?
- 10) How does your job impact your stress situation ?
- 11) In your opinion, how do company policies impact stress levels among employees ? -> Can you provide examples from your own experience ?
- 12) How do you feel about your colleagues and superiors ?
- 13) Were there any challenges/difficulties at work where you had to collaborate with your colleagues ?
- 14) How did you cope with them ?
- 15) How do you differentiate between stress from your job and stress from other aspects of your life ?
- 16) How do you cope with stress ?
- 17) In your opinion, what could help you to manage your stress?

b. Lead User

- 1) Same questions as immediate user, after the 15th one go with these
- 2) Why did you choose to get professional help to manage your stress ?
- 3) How did you cope with stress before therapy ?
- 4) What changed in the way you cope with stress after therapy ?
- 5) Did those changes help you ? (Y) -> How did they help you ? / (N) -> Why didn't they work on you ?
- 6) What did you learn about stress and stress management ?
- 7) Can you name 3 habits that help you manage your stress level ?
- 8) Do you stay updated on the latest stress management techniques and best practices? (Y) -> How ? / (N) -> Why not ?

c. Domain Expert

- 1) How common is it for your patients to suffer from stress?
- 2) Have there been times when people couldn't open up to you?
- 3) Did you use any techniques to put people at ease?
- 4) Are there any stress-related factors that are commonly shared among patients?
- 5) Have there been cases where a patient didn't know they were stressed, and you were able to recognize it?
- 6) How can you distinguish stress from other conditions a patient may have?
- 7) What are the main factors/signs that a person is stressed?
- 8) How long does it take for a person to realize they are stressed and start a psychological journey?
- 9) Have there been cases in which, despite the techniques, the person could not manage stress?
- 10) Has it ever happened that a patient then had to resort to medicines to manage stress?
- 11) What aspect of work can stress a person?

- 12) Have you ever had anyone complain about salary?
- 13) Have there been cases in which, despite the techniques, the person could not manage stress?
- 14) Has it ever happened that a patient then had to resort to medicines to manage stress?
- 15) What aspect of work can stress a person?
- 16) Have you ever had anyone complain about salary?

Team member roles

Lorenzo :

Farisan: taking notes
Zahra: asking questions, recording

Parisa:

Farisan: asking questions
Zahra: taking notes, recording

Adriana:

Francesco: asking questions
Nicola: recording, taking notes
Farisan: taking notes

Pietro:

Francesco: asking questions
Nicola: taking notes

Maria:

Francesco: asking questions
Nicola: taking notes

Marcella:

Nicola: asking questions
Zahra: taking notes

Micheal:

Nicola: taking notes
Francesco: asking questions

Woody:

Francesco: taking notes
Nicola: asking questions

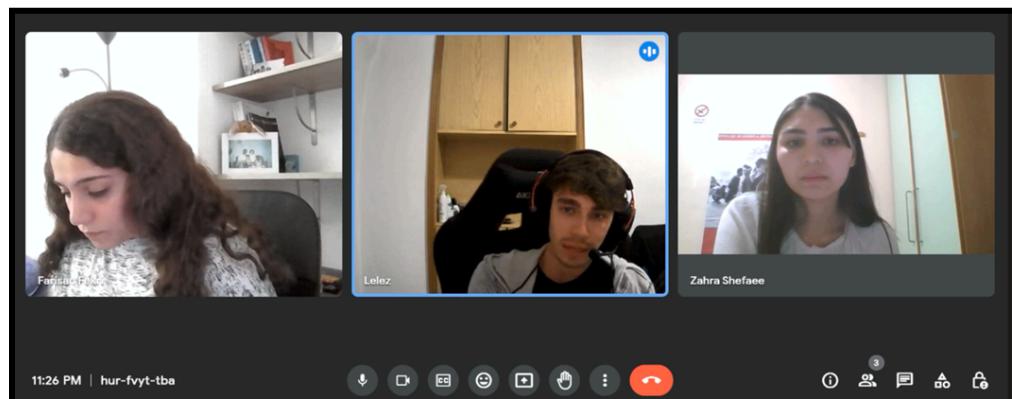
Used materials

Laptop, smartphone, paper for taking notes, OBS studio for recording audio remote interviews, Google meet application, phone recorder.

Results (pictures, summary of the answers, key quotes, what you learned, etc.). Any additional material used for the interviews (e.g., the consent form) can be added at the end of the report (appendix) or linked from an external document.

Pictures

- Interview with Lorenzo:



- Interview with Parisa:



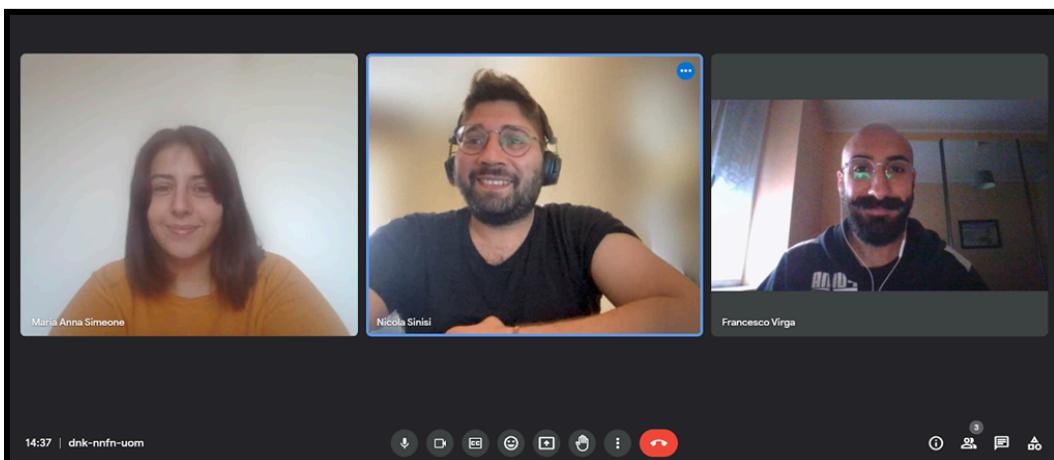
- Interview with Adriana:



- Interview with Pietro:



- Interview with Maria:



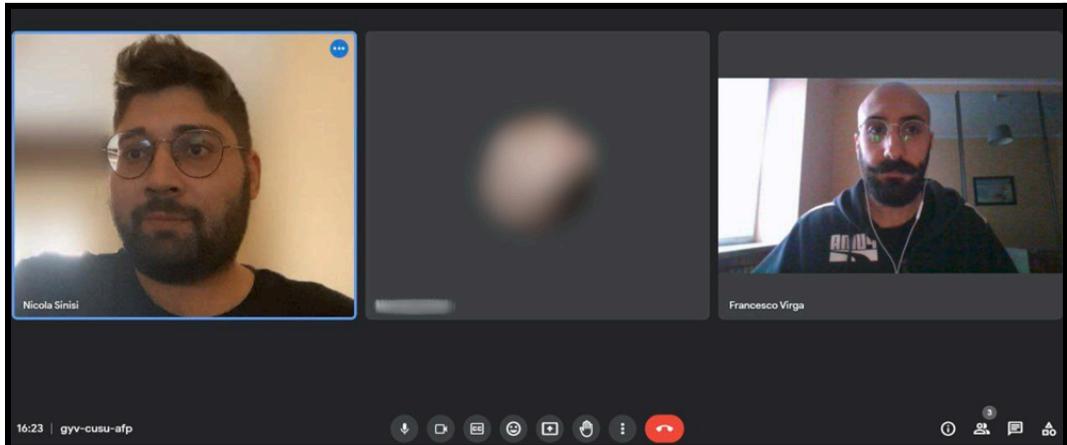
- Interview with Marcella:



- Interview with Micheal:



- Interview with Woody:



Summary of the answers:

From the answers, it's obvious everyone handles stress differently. Some people plan their work carefully, use mindfulness, or take time for themselves by reading or avoiding phones. Therapy, doing one thing at a time, and having someone believe in them also helps a lot. Basically, finding what works for you is key to dealing with stress.

Key quotes

- Pietro: "For me The most difficult part of the job is having a clear mapping of the project that he is managing".
- Pietro: "I tried to escape from stress by going out with friends but I lack vitality."
- Woody: "I believe that Mindfulness is the set of the most studied and validated techniques, especially for stress management. There are

obviously many others including: autogenic training, relaxation exercises deviating from Buddhist meditation, yoga.”

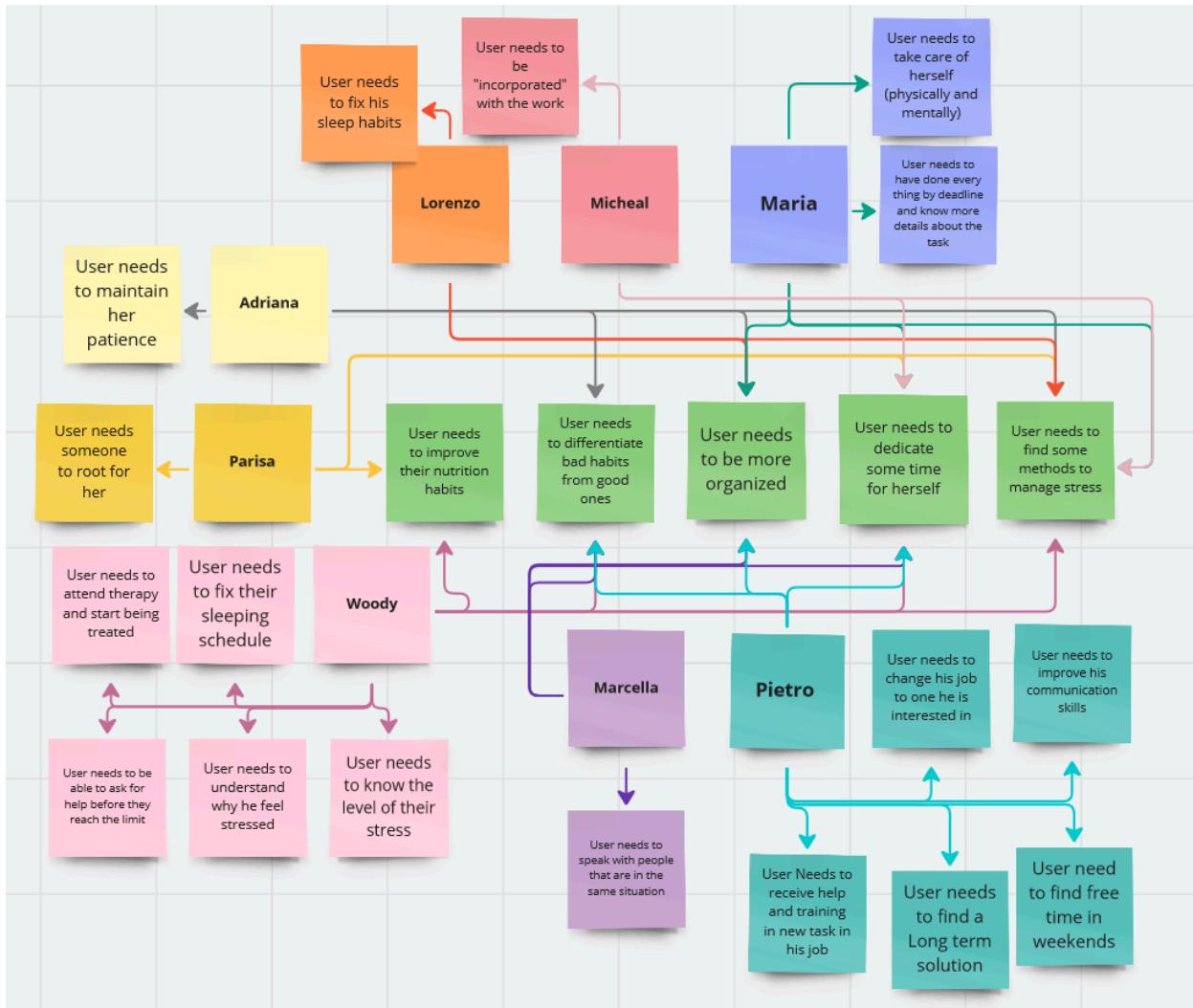
- Adriana: “I always look for a moment in my day to focus on myself; maybe reading a book, watching a movie, or taking a walk. An important thing for me is to also try to avoid cell phones (social events could make me feel worse)”
- Lorenzo: “I am good with managing stress but tending to do what I’m actually supposed to do and getting closure for the task, decreases the stress for me.”
- Marcella: “I feel much more aware of what’s around me (after starting therapy); to recognize what is good for me and what is bad for me and therefore I can understand whether a situation is better to avoid or not.”
- Maria: “These changes have helped me (in reducing stress level): managing my time in a better way. In the past, I was much more overwhelmed by the situation.”
- Micheal: “After therapy I learned to focus more on the present and process one event at a time, also workout works as well.”
- Parisa: ”I need someone to remind me to be confident and strong and tell me: “you can do it!””

What you learned?

There's no one-size-fits-all solution to managing stress; personal preferences and strategies may vary greatly. Effective stress management can include a mix of planning, mindfulness, therapy, and personal downtime away from technology. Recognizing and acting upon what uniquely works for oneself plays a crucial role in reducing stress levels. Encouragement from others and self-belief are also significant in navigating stressful times.

c. Synthesis

List of brainstormed user needs (with pictures), each connected to one or more interviews and answers.



Present the 3-4 deep user needs and why you selected them.

Deep user needs

- Users need to organize their routines
- Users need to differentiate bad habits from good ones
- Users need to dedicate time to themselves.
- User needs to find some methods to manage stress

Why you selected them?

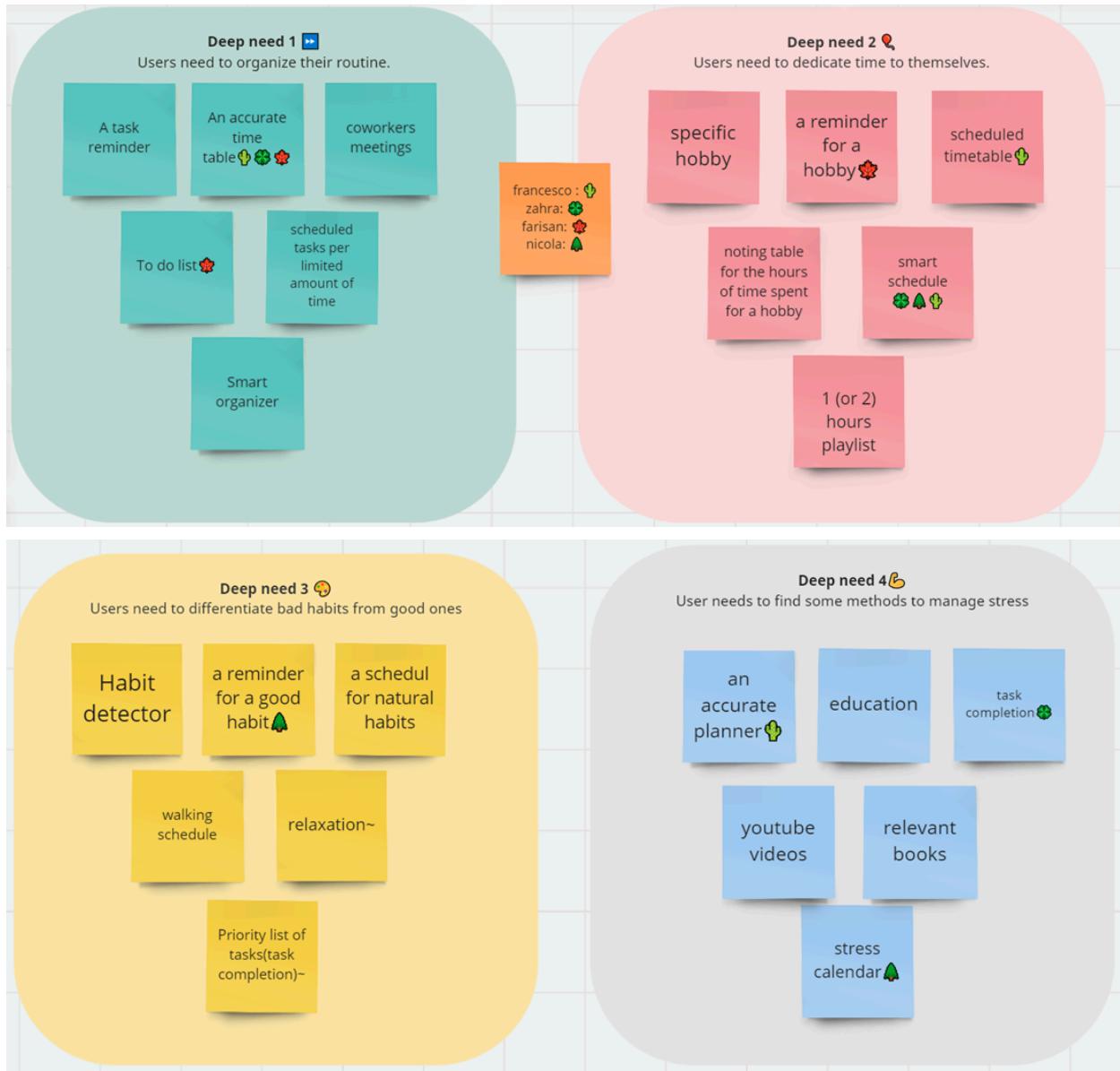
We picked these deep user needs because they highlight what's really important for people dealing with stress. People need to sort out their daily activities to feel less overwhelmed. It's also key to figure out which habits are helping them and

which are not. Making sure they set aside some "me time" is crucial for mental health. Lastly, finding ways to handle stress effectively can make a big difference in feeling happier and more in control. These needs reflect the common themes from what people shared about managing stress in their lives.

d. Solutions

Report the 5 (or more) solutions for each deep user need you thought and how you created them.

Report the 5 (or more) solutions for each deep user need you thought



How you created them?

We created these solutions by really thinking about what each user need means and how we can meet them. For organizing routines, we thought about tools like reminders and to-do lists that keep track of tasks and meetings. To help people focus on themselves, we suggested hobbies and personal time in their schedules. To tell good habits from bad ones, we considered stuff like a habit tracker and reminders for healthy activities. And for managing stress, we included educational resources, planners, and stress tracking to help people learn and stay on top of their game. Basically, we looked at what people need and matched those needs with tools that can help.

The top solution you picked and how you decided on it.

The chosen solution is the "Accurate Timetable". The solution is selected by voting. All members chose the solution that they were interested in. On the other hand, this solution can cover two needs (numbers 1 and 2).

4. Task and Storyboard

- a. List of the simple, moderate, and complex tasks. Why did you choose them?
Why are they important for your target population?

List of the simple, moderate, and complex tasks

- Simple task: Setting a reminder for one of his/her habits
- Moderate task: Setting a future plan to maintain a new habit in free time(entering a new habit in everyday routine)
- Complex tasks: Sharing his experience and knowledge about managing time and reduce stress, help himself and other people

Why did you choose them? Why are they important for your target population?

These tasks are important for our target group because they're all about making life easier and less stressful. Setting a reminder is a simple way to help remember to do good habits every day. Planning to start a new habit is a bit harder, but it makes sure that people find time for things that make them feel good, even when they're busy. The complex task that is sharing what they know about managing time and stress, not only helps them reflect on what they've learned, but may also help others. It's like when you teach something, you get even better at it yourself. Each task is a step to help our young adults feel more in control and chilled out.

- b. Include the storyboard, and specify why you chose it, which are its strengths and weaknesses, and how well it achieves the identified tasks and user needs.



This storyboard illustrates two tasks: a complex one and a simple one. It highlights the user's requirements and demonstrates how they can fulfill these needs using the app. The user has the ability to establish a daily alert and also has the option to share their personal journey and certain routines with others.

5. Low-fidelity Prototypes

- a. Modalities exploration: describe alternatives you considered, report which are the two selected alternatives and why you selected them. Report your target devices/platforms.

Describe alternatives you considered:

- Smartphone
- Smartwatch
- Tablet

Report which are the two selected alternatives and why you selected them. Report your target devices/platforms.

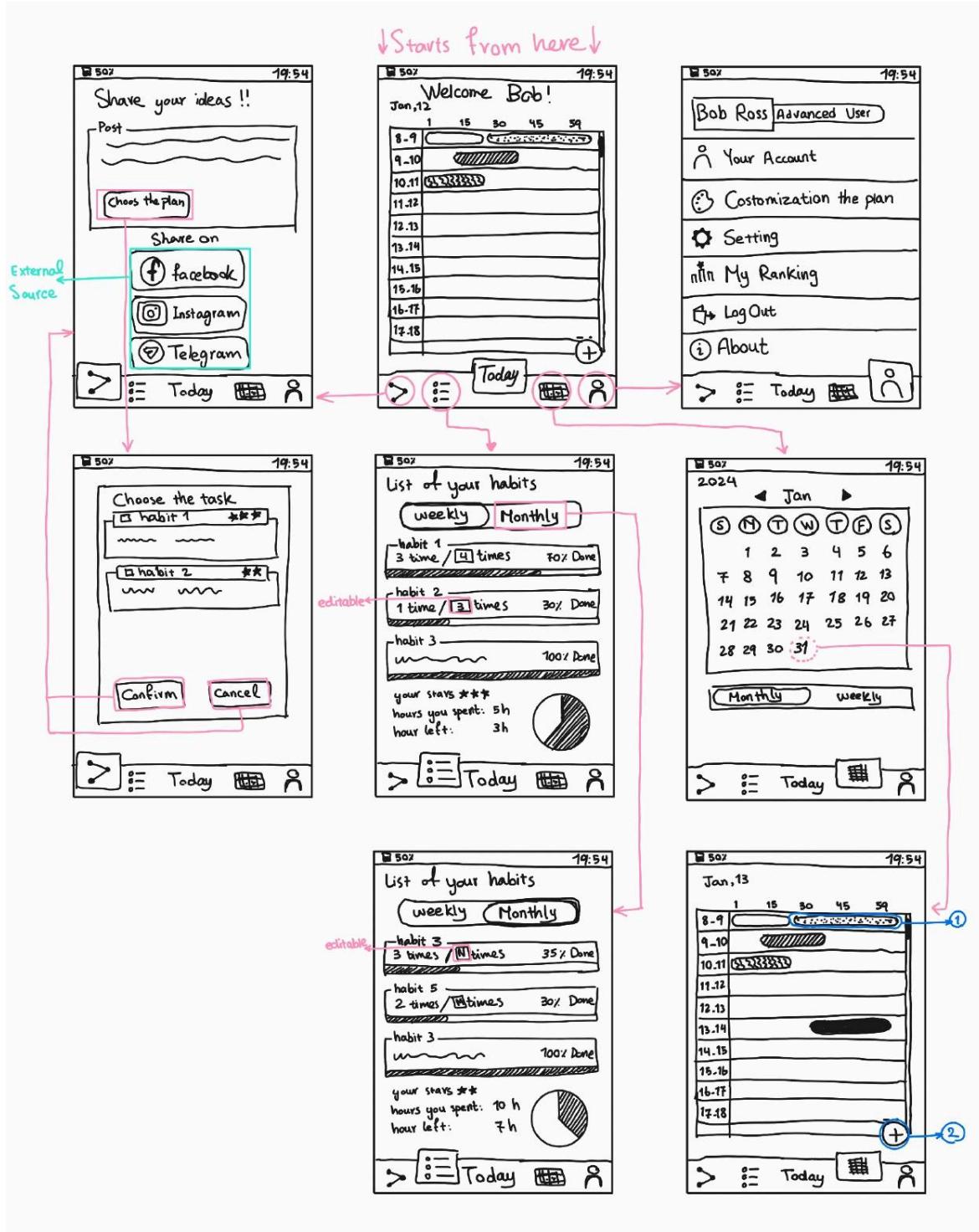
Selected alternatives are “Smartphone” and “Smartwatch”. As the main point of this application is receiving alarms and being on time, these two alternatives are appropriate for receiving the alarms. And also it is easy and fast to access the plans and routines.

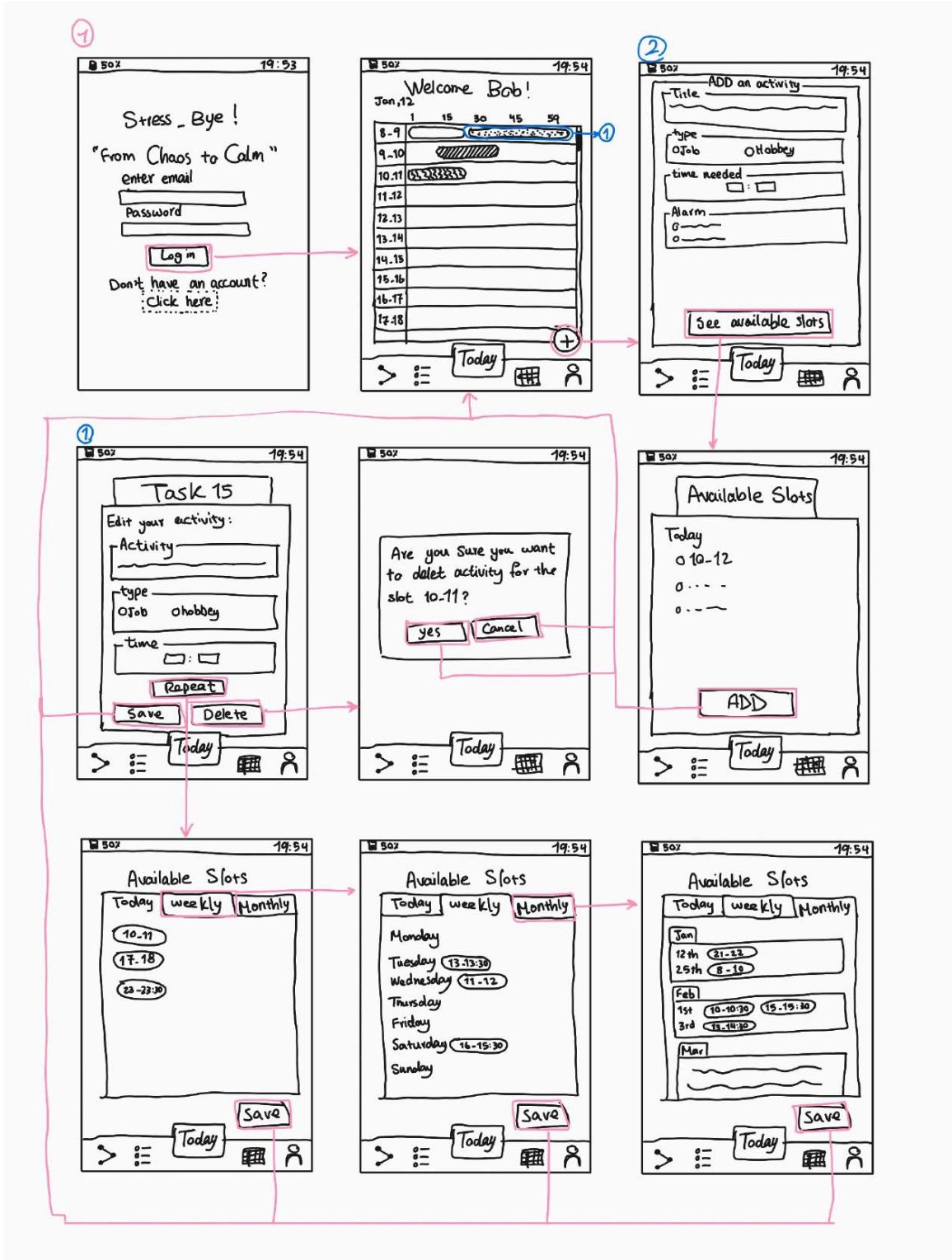
b. Paper prototypes

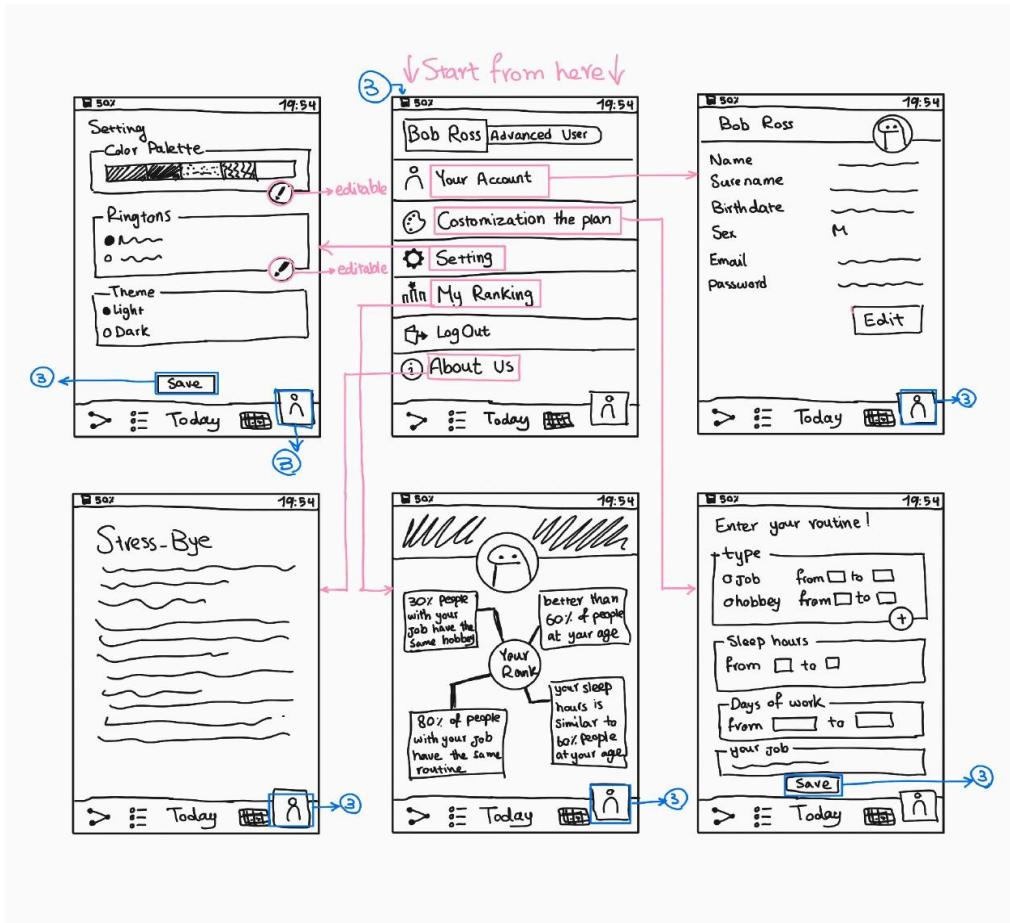
Report the two realized paper prototypes, including a comprehensive set of digital photos or scans of them (captions included).

These are the paper prototypes before the feedback of the teaching assistant.

Smartphone Prototype:

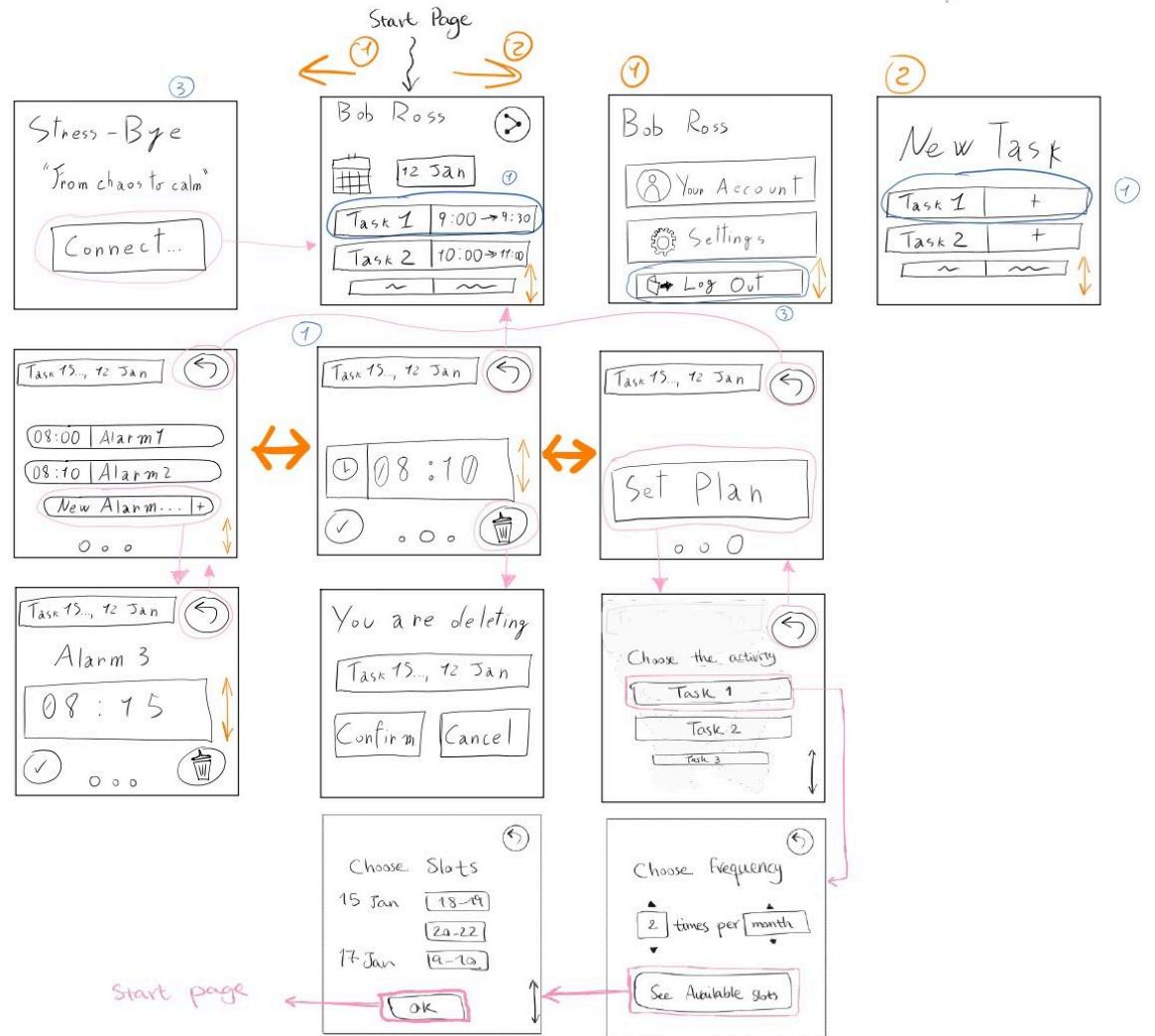






Smartwatch prototype:

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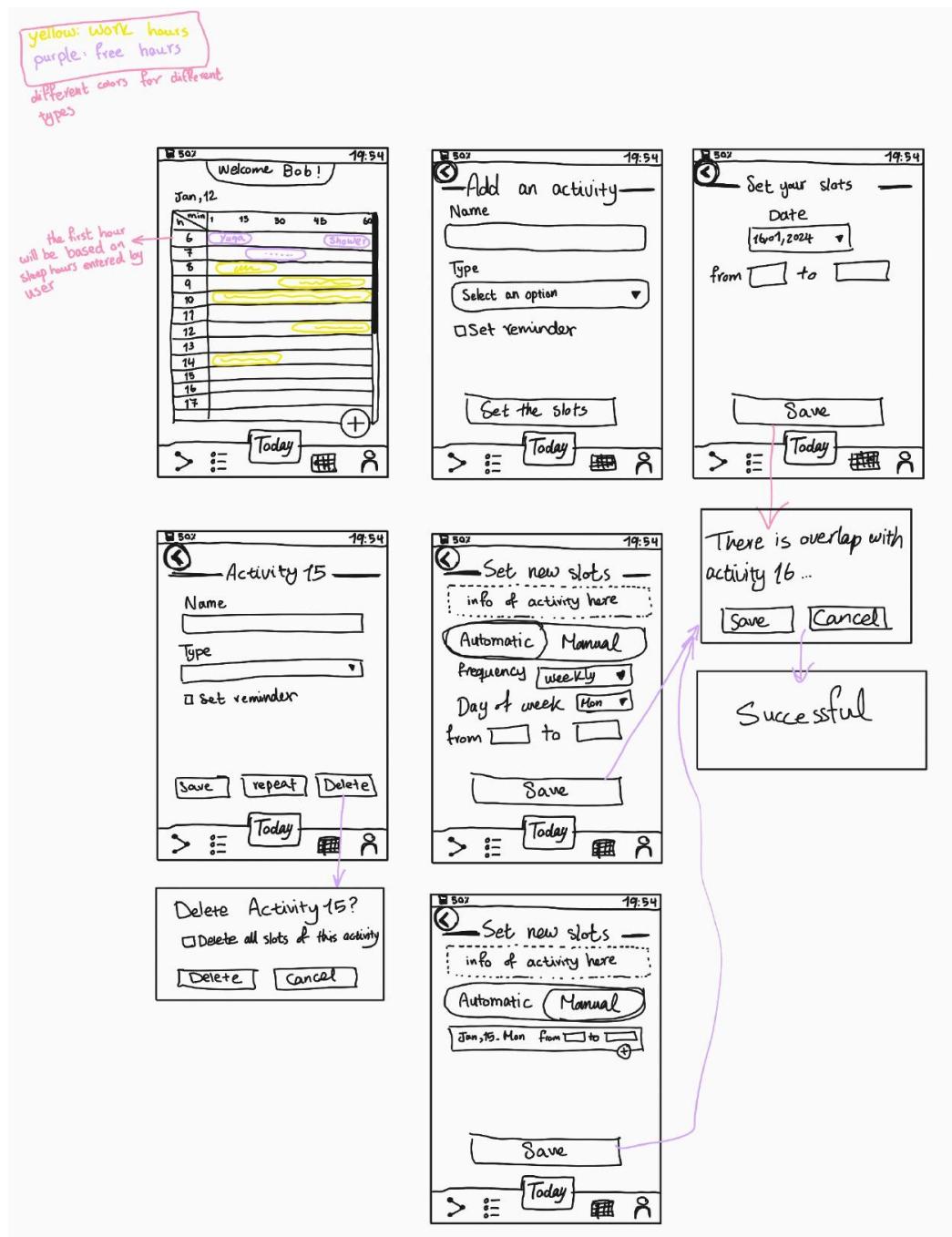
Summarize how they connect to the storyboard and the project goal and the three tasks.

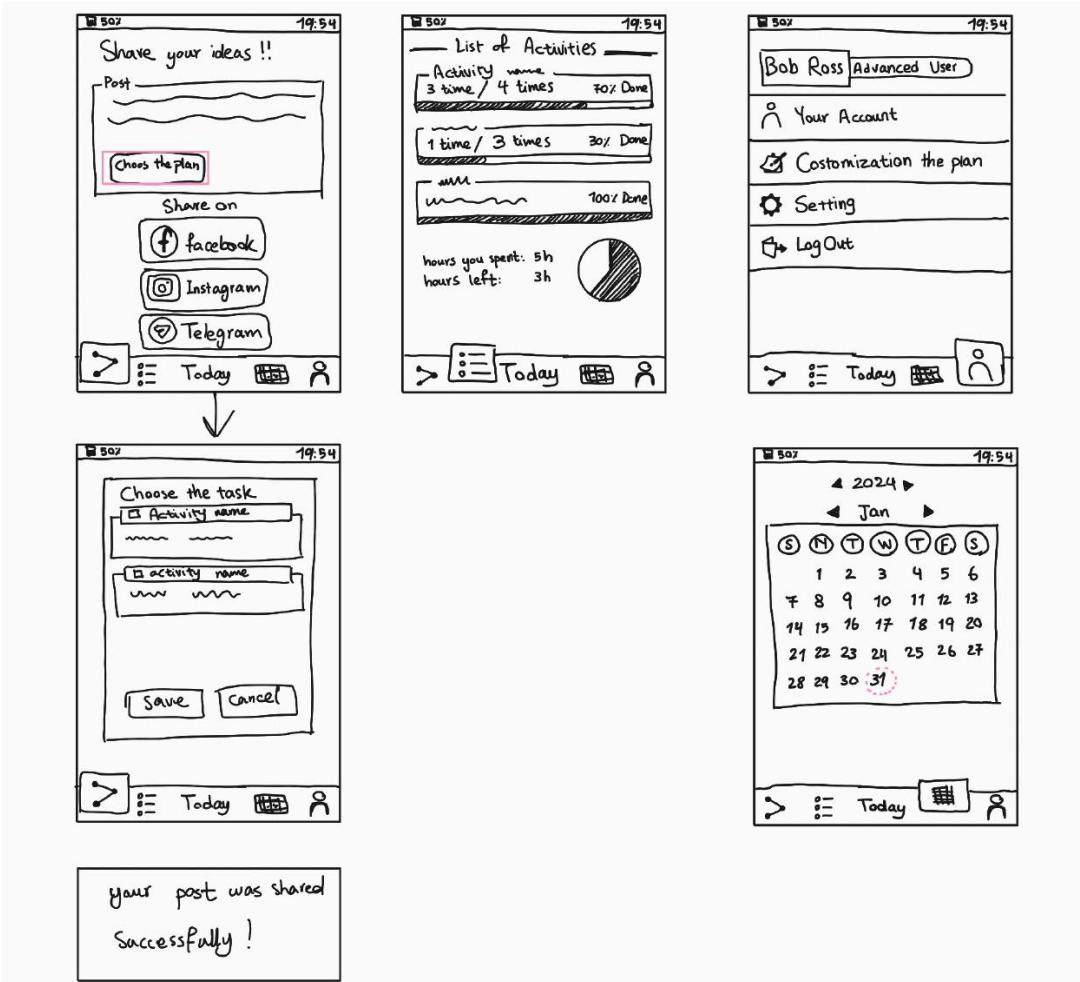
With these designs, a person can tackle easy, medium, and hard tasks. They can check out their schedule and add new activities, get a snapshot of all their to-dos, and also share their plans and daily routines with other people.

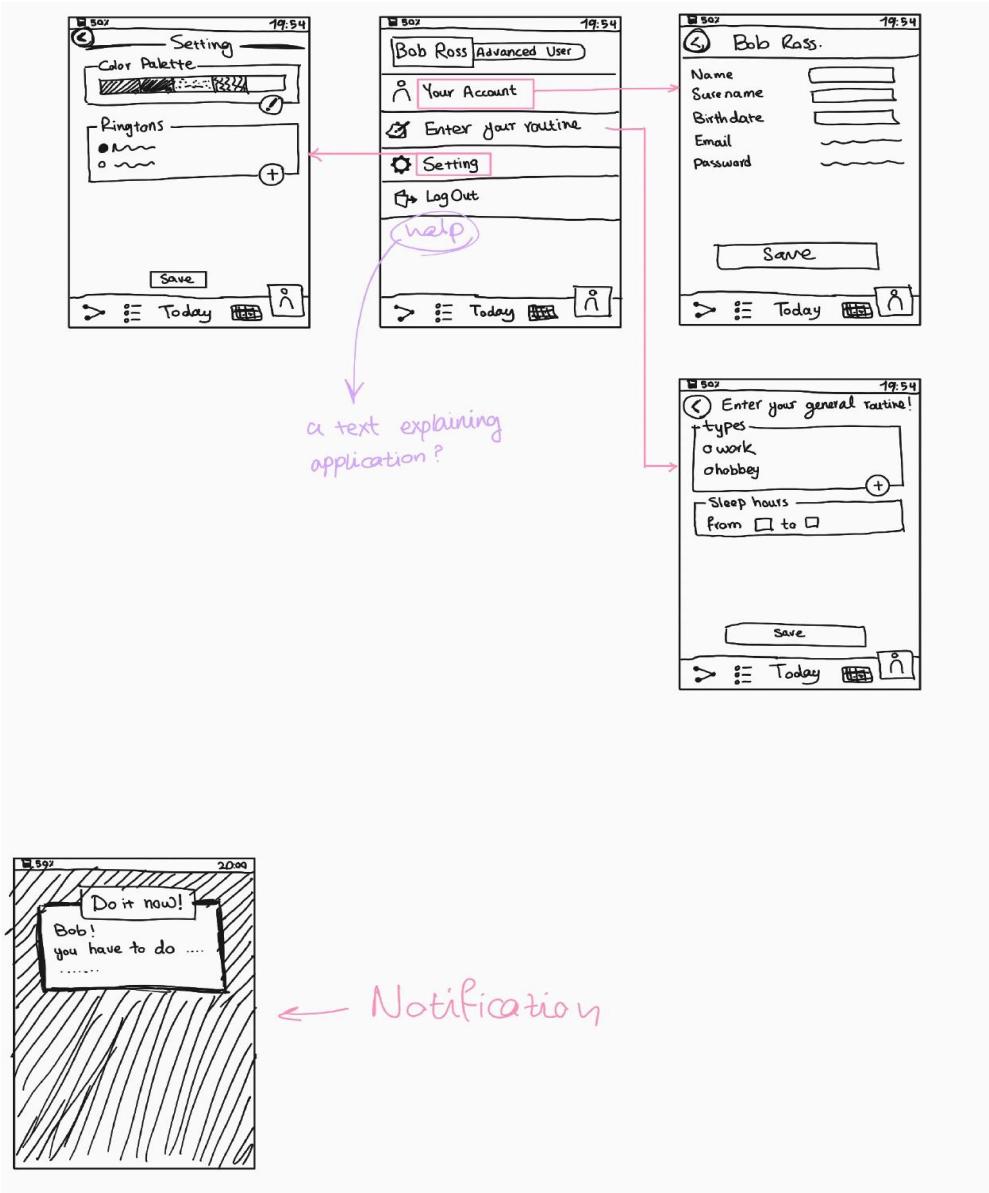
Include the high-level flow of the “screens” of both paper prototypes.

These are the updated prototypes after the feedback which was received by the teaching assistant.

Smartphone Prototype:







Smartwatch prototype:



c. Heuristic Evaluations

Describe the heuristic evaluation you received: include the evaluation result from the evaluators, for example as a link to the on-line spreadsheets.

Describe the heuristic evaluation you received

We did our prototype testing face-to-face while we were in the lab. We printed out our two designs and worked in pairs to test them—one of us acted like the computer, following the script of how the app should work, and the other as facilitator, helped guide the person testing our design. We set the scene for the testers by explaining the app is for individuals who are stressed and struggling to juggle their job and personal time. We showed them what to do and let them have a go with the paper prototype, answering any questions they had. It was interesting to see where people got confused when we were explaining the app, especially if they were new to it.

include the evaluation result from the evaluators, for example as a link to the on-line spreadsheets.

[Link to evaluations for our team on our repository](#)

Report the list of the violations for both prototypes, with duplicates merged.

[Link to Violations of both prototypes with duplicates merged on our repository](#)
(listed in the first part of our 4th assignment)

d. Selection

Report which paper prototype you selected and why. If you decided to move features from one to another, specify which ones and how you plan to do them.

We were deciding on a device that would work best for our needs and tried out ideas for both smartphones and smartwatches. We ended up choosing the smartphone because it's easier to type on and that's really important for our project. You need to be able to easily add new things and change plans, and a smartwatch isn't the best device for typing.

6. Medium to High-Fidelity Prototype

a. Report what tool you used to create the two screens of the medium-fidelity prototype and why/how those two screens are the most significant ones.

What tool you used to create the two screens of the medium-fidelity prototype?

To create the two screens for our medium-fidelity prototype, we used the design tool Figma. It helped us put together the layout with features like checkboxes, dropdown menus, and buttons. We also linked the screens within Figma. For guidance on using Figma effectively, we turned to Youtube tutorials that taught us how to use its components and other features for our prototype.

Why/how those two screens are the most significant ones?

We chose these two screens because:

The reason we focused on these two particular screens is that they contained the most crucial violations that needed attention and they were also easily reachable from the other pages, which was important for the flow of our medium-fidelity prototype.

- b. Add a link to the two screens of your medium-fidelity prototype.

[Link to the Figma project](#)

- c. Write how you planned to solve the violations in the high-fidelity prototype, referring to the list of violations reported in the “Low-Fidelity Prototypes” section. If you disagreed with the evaluators and disregarded a violation, justify the decision.

[Link to the plan to solve the violations in the high-fidelity prototype and disagreement with the evaluators and disregarding violations in our repository](#)
(Listed in the fifth part of our 4th assignment)

7. High-fidelity Prototype

- a. Describe the tool, framework, libraries, ... used and why you selected them.

We developed our web application using JavaScript, working within the Visual Studio Code editor. We utilized Node.js to run our server-side code, React for building a smooth user interface, and SQLite3 for managing our database. These tools were chosen for their efficiency and compatibility, making our development process streamlined and effective.

We did use the following libraries on the frontend:

1. Dayjs: for managing and formatting dates.

2. React-router-dom: for managing the urls and passing data between the pages.
3. React-bootstrap and React-bootstrap-icons: for the interface elements.
4. React-ios-time-picker: because we needed a time picker for a mobile application.
5. React-switch: for the interface of the statistics page

We did use the following libraries on the backend:

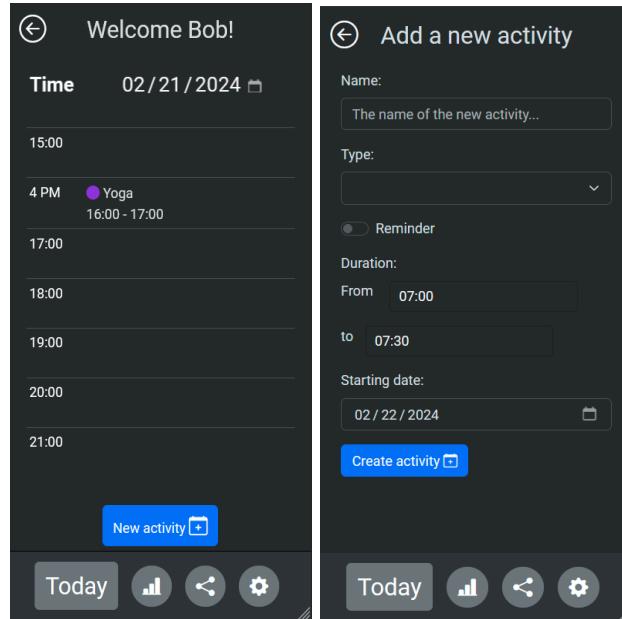
1. Express: web framework for Node.js, simplifying the development of web applications and APIs.
2. Morgan: logging middleware for Express.js, automatically logging request details for debugging and monitoring.
3. Cors: middleware enabling Cross-Origin Resource Sharing (CORS) in Express.js, managing cross-origin HTTP requests.
4. Express-validator: middleware providing data validation for incoming requests in Express.js.
5. Express-session: middleware managing user sessions in Express.js, allowing data storage across multiple requests.
6. Passport: authentication middleware for Node.js, offering a modular authentication system supporting various strategies.
7. Passport-local: local authentication strategy for Passport.js, used for authenticating users based on a locally stored username and password.
8. Dayjs: for managing and formatting dates.

- b. Add a link to the GitHub repository containing the full code of the prototype.

[Link to the Stress-Bye prototype in our repository](#)

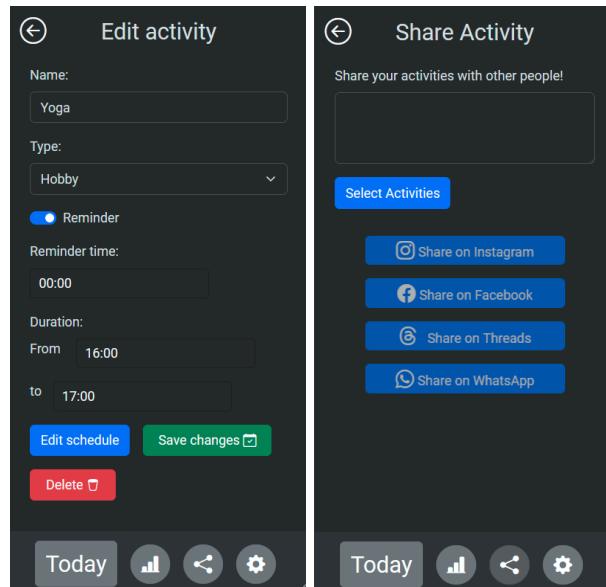
- c. Describe the most significant screens of the prototype, and why they are significant to you.

- The main page which is called “Today” represents a display of all created activities, it is possible to create, edit, repeat and delete the activity which covers task one and task two.
- The share activity page, that is related to task three.



The main page

Create a new activity page



Edit an activity page

Share an activity page

d. Comment on the hard-coded part, the pre-stored data, and any limitations that your prototype still has.

- The user is already logged in, so there is no need to log-in.
- The user can choose their preferred week days and time for the activities these values are hardcoded.
- The database is empty as it is possible to create activities (1st activities).
- The statistics and profile page are just for displaying some predefined data, as they are not one of three tasks.

- There are predefined types “job” and “hobby” for each type of activity.

8. Usability testing

a. Preparation and run

Describe the evaluation you conducted (participants, team members role, where/how the evaluation was conducted, the refined set of tasks, etc.).

Participants and team members role

We did five evaluations in presence using a laptop with the running code:

1. Nadia Ramundo, 24 years, consultant:
Facilitator: Zahra,
Observer: Nicola
Note-taker: Farisan
2. Matteo Sollini, 25 years, consultant:
Facilitator: Nicola
Observer: Francesco
Note-taker: Zahra
3. Maria Elisabetta Sposato, 22 years, hostess in events
Facilitator: Francesco
Observer: Farisan
Note-taker: Nicola
4. Niccolò Cacciapuoti, 22 years, project manager
Facilitator: Francesco
Observer: Zahra
Note-taker: Farisan
5. Mona Pouresmaeil, 24 years old, makeup artist
Facilitator: Farisan
Observer: Nicola
Note-taker: Francesco

Where/how the evaluation was conducted?

All of our testing sessions were conducted face-to-face, with all taking place at a team member's home. We didn't do any testing online. For these sessions, we used laptops to run the tests and our phones to snap photos of the users as they interacted with our application. Also there were screen records and voice records for obtaining more precise results.

The refined set of tasks

- Task one: You are now in the main page of application, create a new activity for today, set the properties you want for the new activity.
- Task two: Try to repeat the activity for other dates.

- Task three: Imagine you made a mistake in creating an activity, edit the activity you made, try to change the name or the date.
- Task four: Delete an activity that you don't want it on your calendar anymore.
- Task five: Share the activity of your choice on other platforms.

Add the link to the PDF document that represents the usability testing protocol and any consent forms and questionnaires you used.

[Link to the usability testing protocol and consent forms and questionnaires in our repository](#)

(Linked to our 5th assignment)

b. Results

Summarize the results and findings, together with any relevant pain points and/or successful tasks. Add the photos you took with captions.

Pain Points:

- Multiple participants faced challenges with inputting time, finding it difficult to operate. This issue was noted primarily when using a mousepad to interact with a touchscreen interface, suggesting a potential disconnect between the designed input method and the actual user interaction.
- Words like “schedule” were not immediately understood by some users, indicating a possible need for clearer language or instructions.
- The “share on social” button was not clickable for some participants, and it was not clear why, leading to confusion.
- Participants found it challenging to repeat an activity for other dates or edit activities efficiently. There were issues with the clarity of clickable areas and the process to edit activities.
- Some participants suggested improvements like a home button icon for better navigation and expressed a desire for a more integrated editing process where schedule and activity edits could be made simultaneously.

Successful Tasks:

- Certain functionalities, like the main page's activity creation feature, were immediately recognized and appreciated by users.
- Elements that resembled familiar interfaces (e.g., iPhone time scrolling) were well-received.
- The distinction between deleting a single instance of an activity and all instances was clear and well-understood.
- Tasks such as editing the name or date of an activity were found to be simple and understandable.

Suggestions for Improvement:

- Consider redesigning the time input method to be more user-friendly.
- Use clearer language and provide instructions or tooltips for terms and buttons that may not be immediately understood.
- Ensure all buttons are clickable and provide immediate feedback or explanations when certain elements cannot be interacted with.
- Make it easier to repeat activities and edit activity details without navigating away from the main editing interface.
- Incorporate more intuitive navigation elements, such as icons for the home button, and consider adding features like quick search and filters for activities.

The SUS score for each participant was equal to:

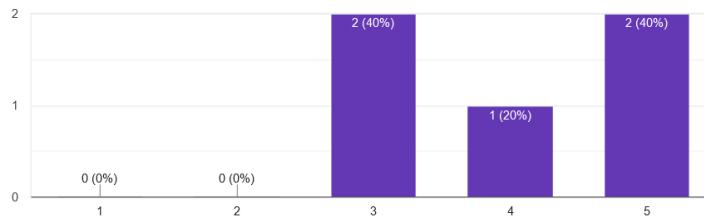
- Nadia Ramundo = 75
- Matteo Sollini = 82.5
- Maria Elisabetta Sposato = 85
- Niccolò Cacciapuoti = 82.5
- Mona Pouresmaeil = 87.5

The results of the SUS questionnaire:

I think that I would like to use this system frequently

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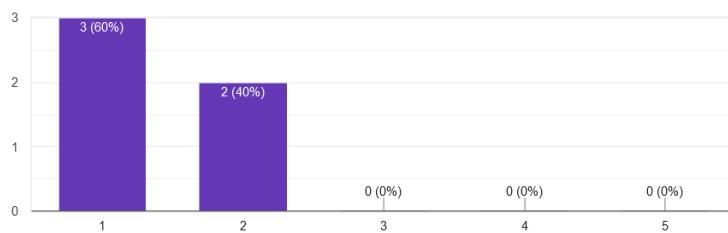
5 responses



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I found the system unnecessarily complex

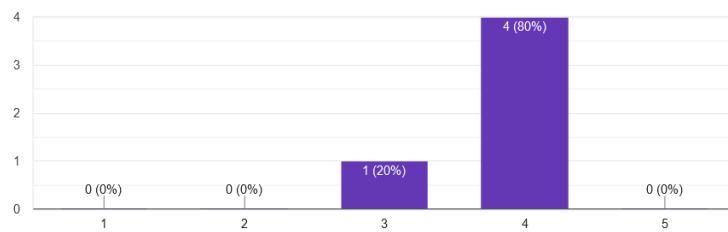
5 responses



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I thought the system was easy to use

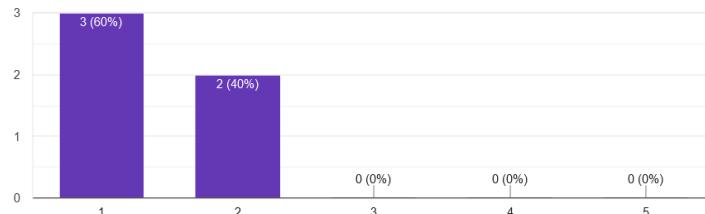
5 responses



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I think that I would need the support of a technical person to be able to use this system

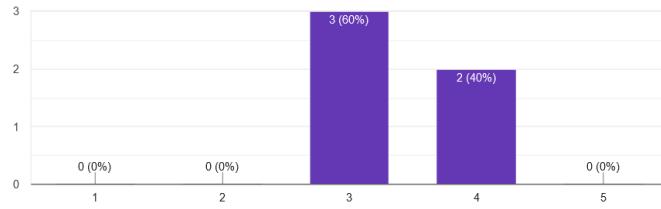
5 responses



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I found the various functions in this system were well integrated

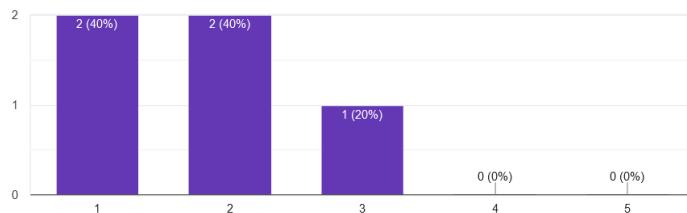
5 responses



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I thought there was too much inconsistency in this system

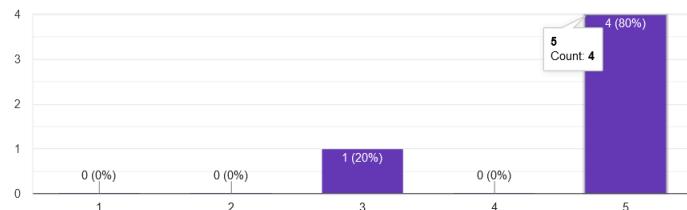
5 responses



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I would imagine that most people would learn to use this system very quickly

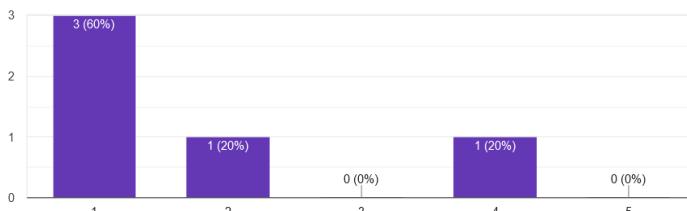
5 responses



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I found the system very cumbersome to use

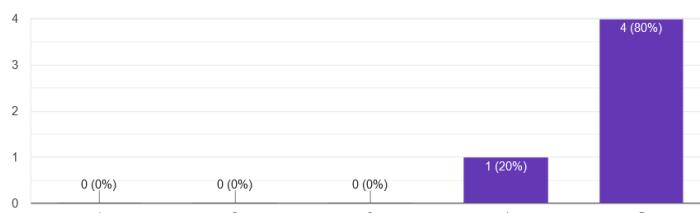
5 responses



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I felt very confident using the system

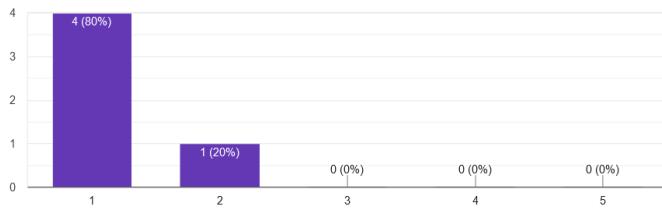
5 responses



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I needed to learn a lot of things before I could get going with this system

5 responses

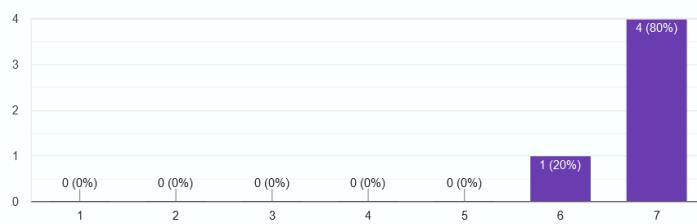


The results of the SEQ questionnaire:

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How easy was creating a new activity?

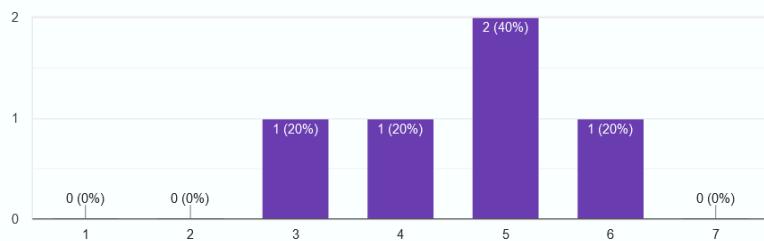
5 responses



How easy was repeating an activity?

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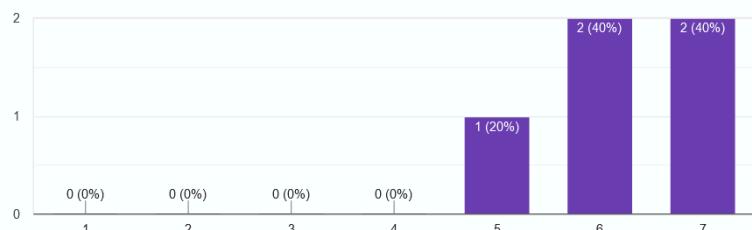
5 responses



How easy was sharing an activity?

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5 responses



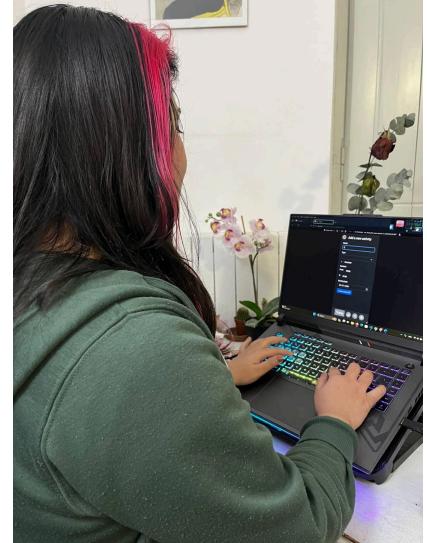
The pictures taken from the participants:



Niccolò Cacciapuoti



Maria Elisabetta Sposato



Mona Pouresmaeil



Nadia Ramundo



Matteo Sollini

Discuss what you discovered and learned about your prototype.

From testing our app, we found out that people liked some parts of it because they were easy to use and looked good, which means minimalist design is implemented sufficiently enough. But, they had trouble with setting times, understanding some words, and making changes to their plans. We learned we need to make our app easier to use, explain things better, and make it simpler for people to change their schedules. This feedback shows us how we can make our app better for everyone.

Write a non-trivial list of potential changes that your team would like to implement to fix the main issues emerged from the usability test. Justify each change by explaining which piece of feedback generates it.

- Users had trouble with the time setting. We could try to make this easier, maybe by making the time picker simpler or giving examples of how to do it.
- Some words confuse our participants. We could use simpler words or add small explanations so everyone knows what they mean.
- Changing plans was hard. We could make it possible to develop everything in a way that it's quicker and less confusing.
- Some people suggested icons, like a house for the home button, would help. Icons can make it easier to know where to click without reading.
- People wanted a quick way to find activities. We could add a search bar or filters to help people find what they need without scrolling a lot.
- We can add other “views” to the main page since the only one is the daily view, a week, month and year views can be helpful.

9. Conclusions

- a. What were your main learnings from this semester about the overall process followed in the course, your lab theme, and your own project? 02JSKOV - Human Computer Interaction (2023/2024)

During this semester in our Human Computer Interaction class, we aimed to make an app that makes it easier for people to use and enjoy. We learned how to really listen to what users want and what they would need from an app. The course showed us different ways to find the best solutions, helping us make our app as good as it can be for users. We found out how important it is to keep checking in with users, asking them what they think, and using their feedback to make the app better. Our project taught us that making an app isn't just about the technology; it's about making sure the app fits what people need and like. This whole experience helped us see how to connect better with users, making sure our app is not only useful but also something they would enjoy using.

- b. Group feedback: how did you split the work within the group, any positive aspects and any problems you experienced as a group.
- Positive aspects: We learned a lot about working together as a team and the importance of coordinating with others on a project.
 - Problems: We didn't run into any significant problems during our teamwork.
 - Splitting the work:
 - Francesco took on the role of developing the front-end, specifically working on tasks one and two.

- Nicola was responsible for the back-end server coding and implementing notifications on the front-end.
- Farisan focused on front-end development for the profile page and assisted in task 3, as well as compiling the final report.
- Zahra worked on coding both the server and front-end for task 3 and also contributed to the final report preparation.

In conclusion, our team worked well together, dividing tasks based on what each person was good at. Everyone had a clear job, which helped us finish our project smoothly.