

AMPlIFY

IPC Project - Phase II

3LEIC5 - Group 01

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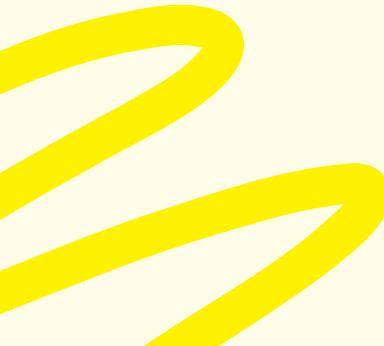
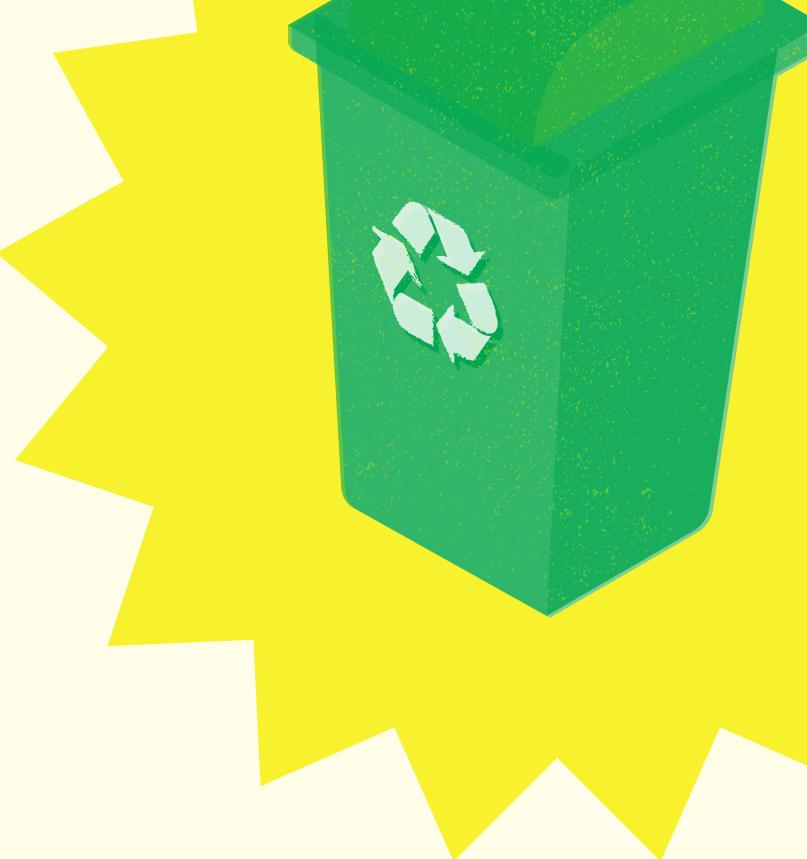
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PROJECT ABRIDGED DESCRIPTION

Goal: Assist consumers with real-time energy consumption monitoring, notifications, and suggestions for cutting expenses and use.

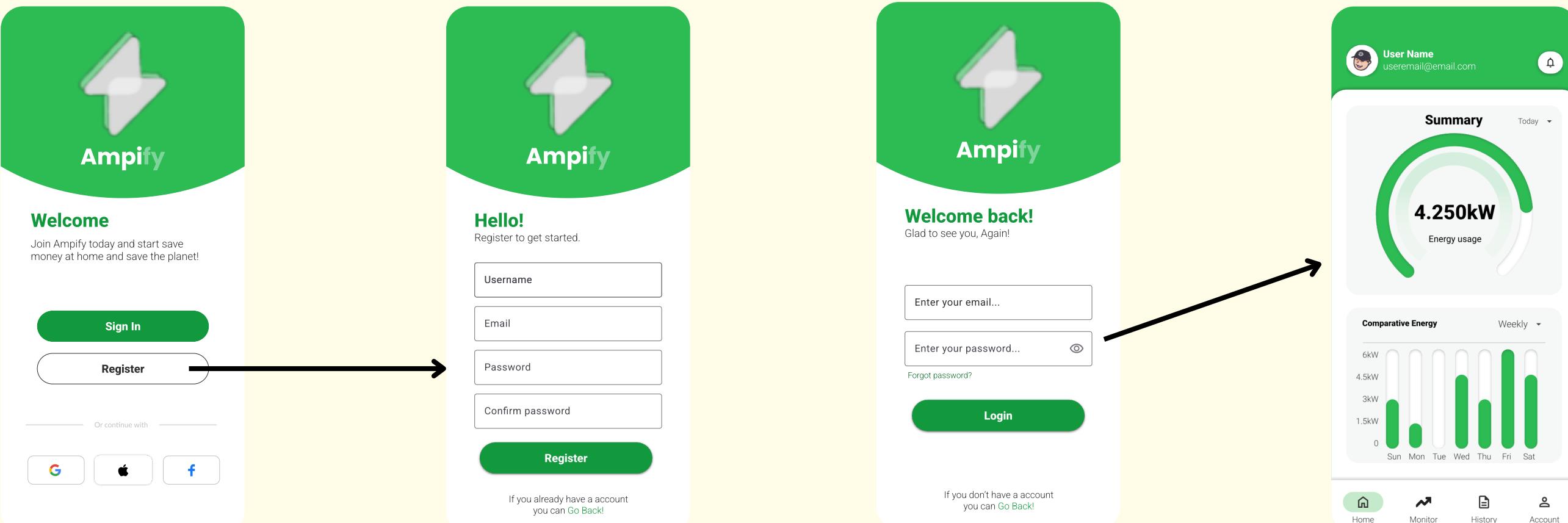
Key characteristics:

-  Energy monitoring in real time;
-  Reports on monthly consumption;
-  Notifications of energy surges;
-  Individualized energy-saving advice;
-  Sustainability Mode



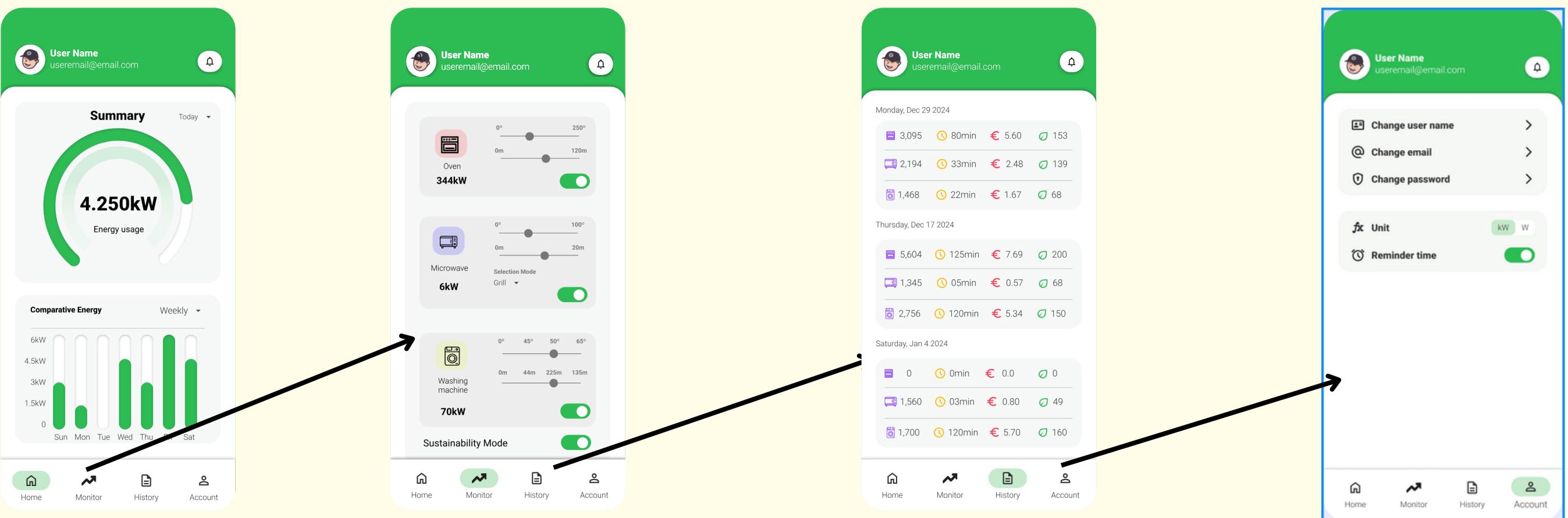
PROTOTYPE'S WIREFLOW

- The ability to monitor energy consumption in real time and modify settings for devices with excessive energy consumption is the most complicated job shown in the wireflow. This function allows the user to see the real-time usage of all connected devices, including kitchen appliances, heaters, and air conditioners.
- In the first interaction of the prototype, the user is introduced to the initial screen of the "Ampify" app. This screen aims to present the app's purpose, encouraging the user to start saving energy and contributing to the environment. At this stage, the user has two main options: "Sign in" to log in if they already have an account or "Register" to create a new account. Additionally, it is possible to use external accounts, such as Google or Facebook, to simplify the login process. This initial interaction is designed to be simple and welcoming, providing an accessible entry point to the app's features.



PROTOTYPE'S WIREFLOW

After logging in, the app displays real-time daily energy consumption and a comparative weekly chart. On the second screen, users can control appliances, adjusting settings like temperature and time. The third screen shows the consumption history, including costs and energy saved. Finally, the fourth screen provides settings to update personal information, adjust units, and configure reminders.



SUMMARY OF HEURISTIC EVALUATION RESULTS

With the presented update the following previously highlighted issues no longer apply:

- **Non-functional buttons:** The buttons now work, eliminating the problem of lack of visual feedback and static buttons;
- **Underdeveloped application:** With the functionalities now operational, the application no longer appears "underdeveloped" and offers a more robust experience

However, the following issues may still apply, depending on the implementation:

- **Lack of error warnings:** If the system still does not provide warning messages for incorrect behavior, such as login errors or device configuration issues, this problem remains.
- **Lack of user assistance:** If the application still does not offer help messages or clear reminders to guide the user during usage, this issue is still applicable.



SUMMARY OF CORRECTIONS TO PERFORM IN PHASE 3

It could be mentioned that adding certain future features would enhance the application, such as:

- **Non-functional buttons:** The buttons now work, eliminating the problem of lack of visual feedback and static buttons;
- **Underdeveloped application:** With the functionalities now operational, the application no longer appears "underdeveloped" and offers a more robust experience
- **Dual-rate electricity management:** Implementing functionality to adapt usage based on peak and off-peak electricity tariffs (bi-hourly rates).
- **Energy overconsumption alerts:** Notifications for when an appliance consumes more energy than necessary or exceeds a daily energy limit previously set by the user.
- **Automated device scheduling:** Allowing users to schedule appliances to turn on/off based on usage trends or during off-peak tariff hours.





LET'S COMMIT TO CLEAN ENERGY FOR A SUSTAINABLE FUTURE!

Thank you

