



SOLARTRADE

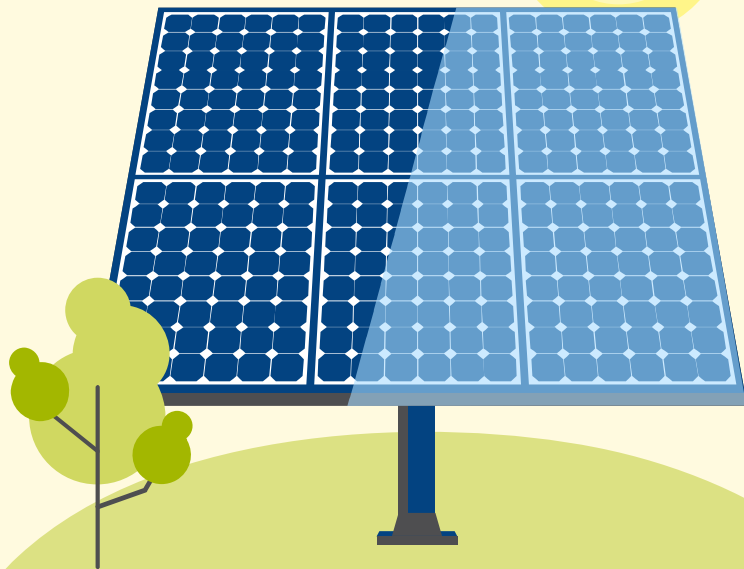
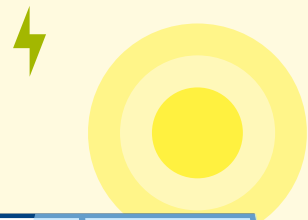


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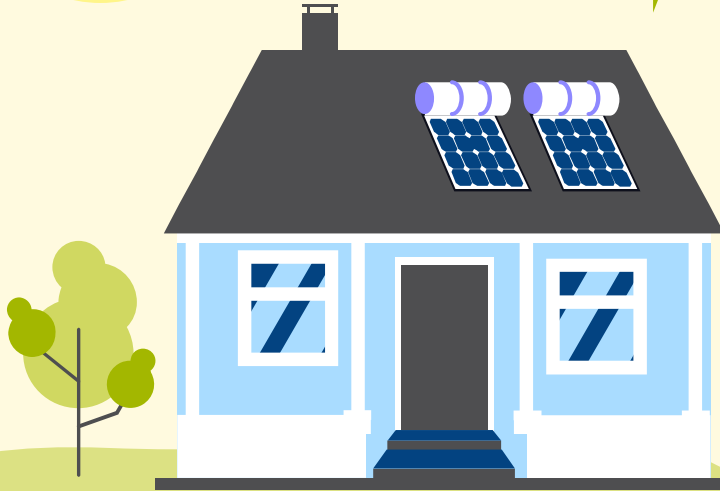
**Hi-fi Prototype and User
Evaluation**





01

Description





What is SolarTrade?

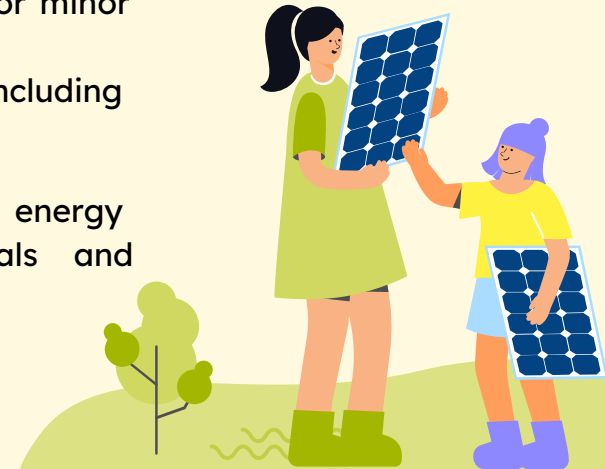


SolarTrade is a Mobile App that empowers users to efficiently manage and optimize their solar panel systems.

Key features include:

- **Real-Time Monitoring & Energy Reports:** Track energy production and consumption seamlessly.
- **Auto-Repair Functionality:** Utilize embedded robots for minor repairs.
- **Energy Sales:** Sell excess energy to the grid, including international markets.

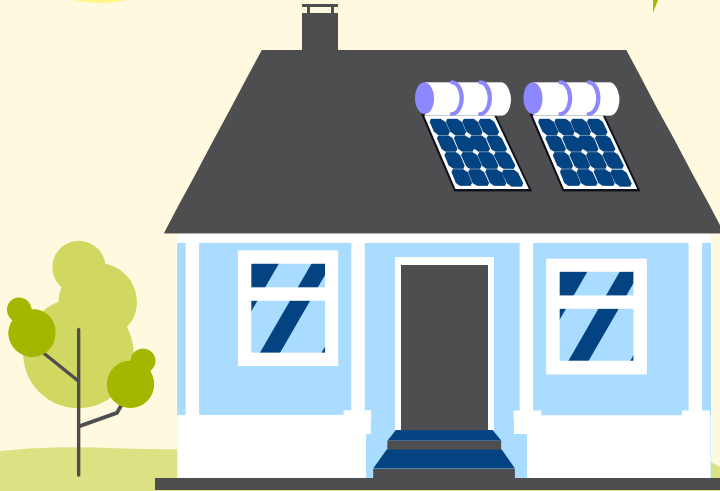
SolarTrade offers an innovative solution for efficient solar energy management, enabling sustainable living for individuals and businesses.





02

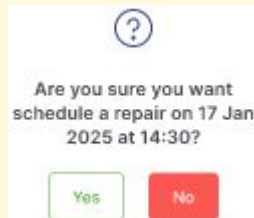
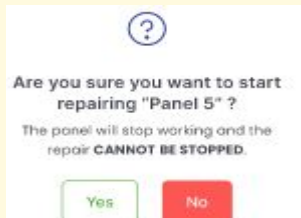
Main Takeaways



Main takeaways



- Added pop-up confirmations to prevent accidental clicks.



- Introduced a simple and easy-to-follow tutorial to guide users on performing auto-repairs and scheduling one.



- Updated icons to improve visual clarity and idea association.

BEFORE

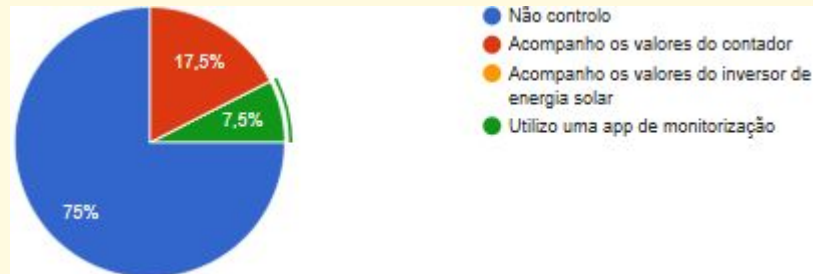
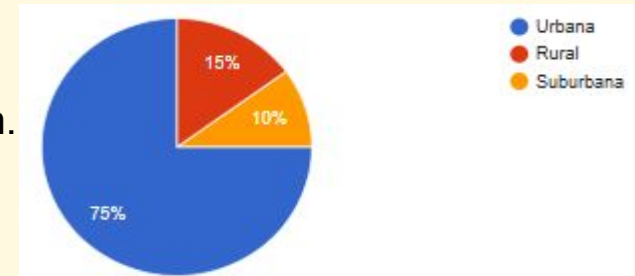


AFTER



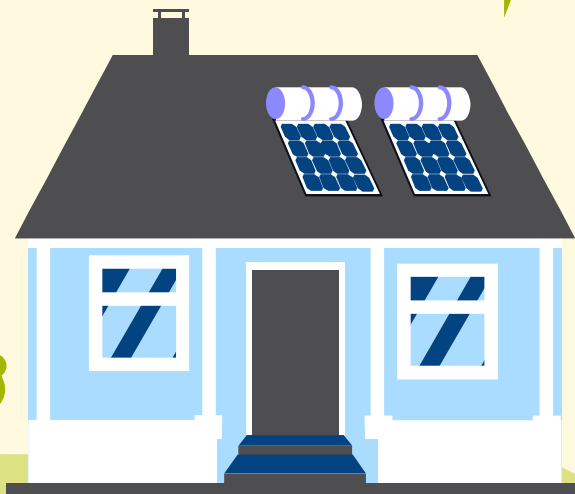
Sample Characterization

- **Responses Collected:** 24 participants.
- **Age Range:** Majority between 19-21 years..
- **Experience:** No prior experience with the application.
- **Location:** 75% urban participants.
- **Similar Applications:** Only a small percentage of participants use related tools.

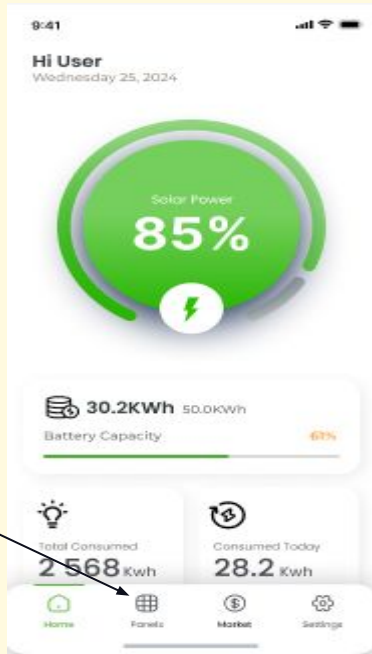


03

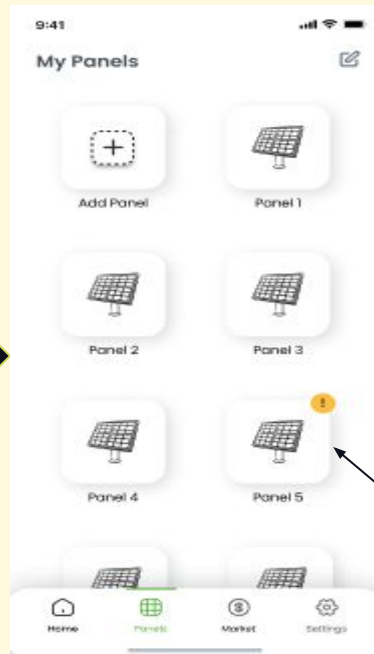
Hi-fi Prototype and User Evaluation



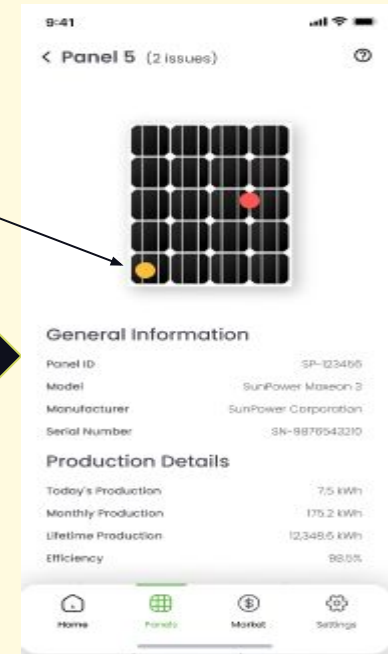
Prototype Wireflow: Scheduling a repair



Screen 1: Tap on the "Panel Icon" to view available panels.

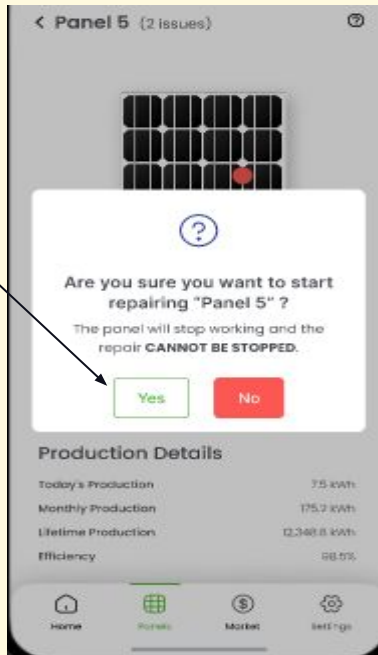


Screen 2: Select a panel with issues (indicated by the yellow badge).



Screen 3: Tap on the yellow dot to start the auto-repair process.

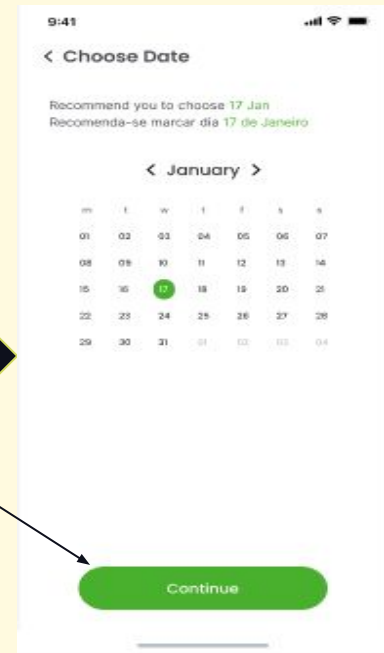
Prototype Wireflow: Scheduling a repair



⚡ **Screen 3:** Confirm repair.



Screen 3: Tap the red dot to schedule a repair for the critical issue.




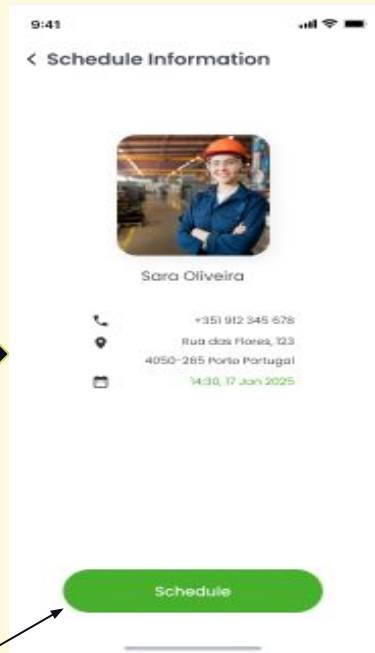
Screen 4: Select repair date.



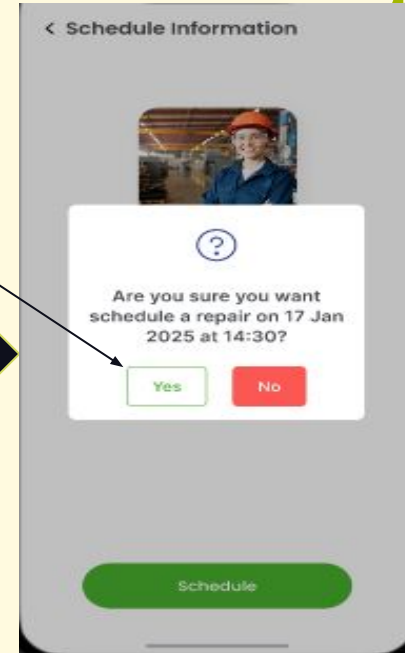
Prototype Wireflow: Scheduling a repair



 **Screen 5:** Choose repair time.



Screen 6: View scheduled details.



Screen 6: Confirm repair schedule.



Results and statistical analysis

95.7%

Success rate

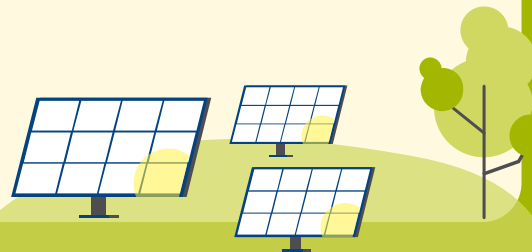


4.3%

Drop-off

42.1%

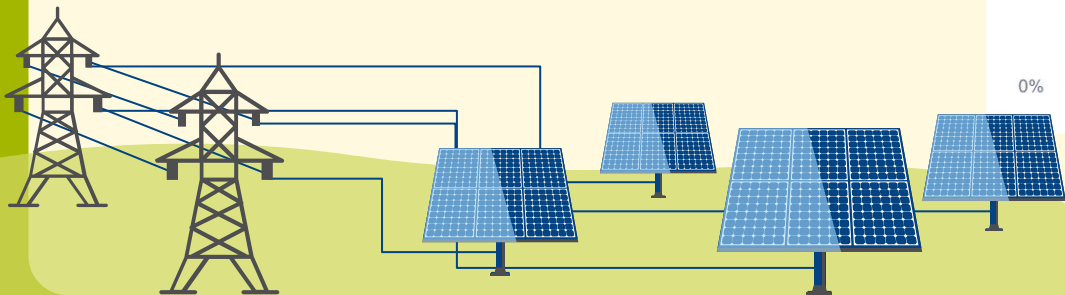
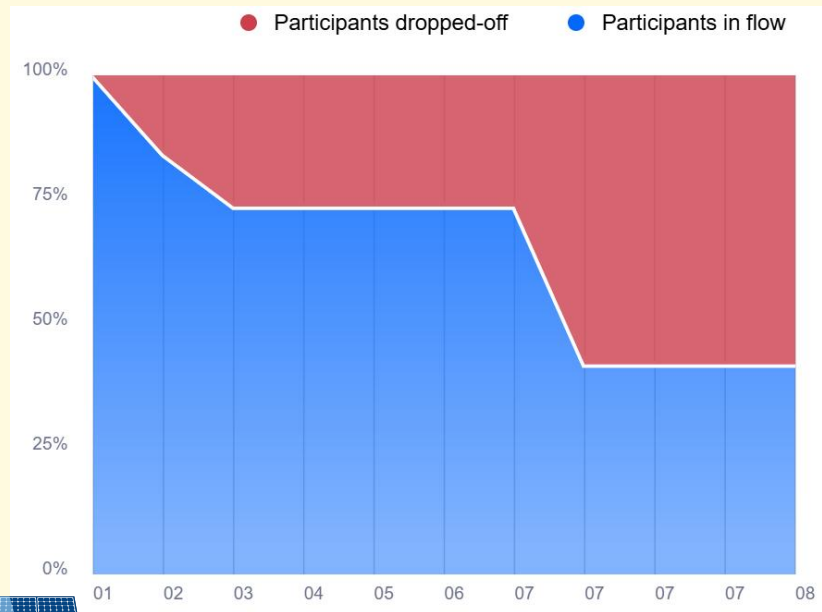
Misclick rate



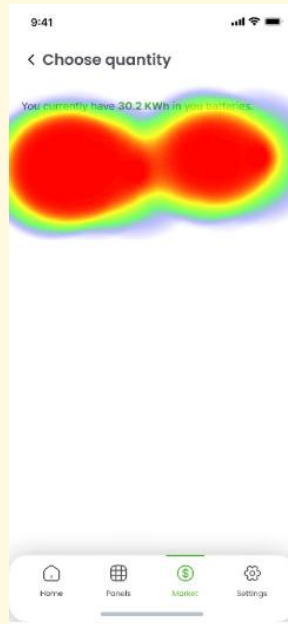
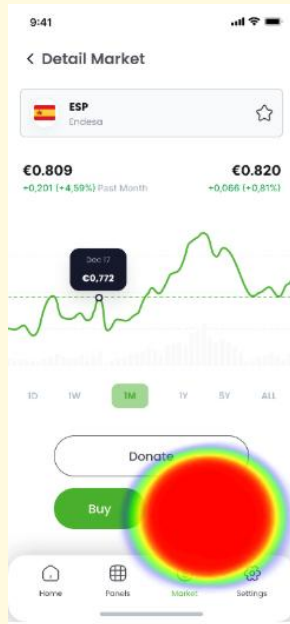
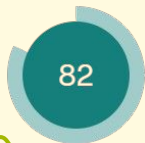
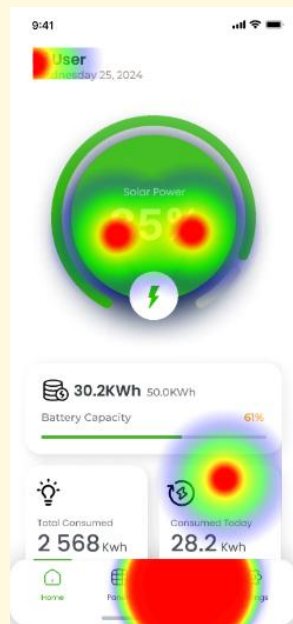
Maze Report - Selling Energy to Spain

In this task, the user will try to sell his energy to Spain.

- **19 Responses**
- **31.7s Average Duration**
- **94.7% Success Rate**
- **5.3% Drop-Off**
- **17.4% Misclick**



Maze Report - Heat Map





Thanks!

Do you have any questions?

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