



PillTrack: IoT for medication management

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05 dez. 24



Theme

How difficult is medicines management?

Half of the 3.2 billion prescriptions written every year are not followed correctly. To solve this, we have created a system to help older people manage their medication, using technology to improve quality of life and treatment administration.



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Theme

What is our theme?

PillTrack is an IOT system for medication management.



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Theme

What have we created?

The IoT medicine chest will notify the user of medication times and monitor stock, allowing family members and healthcare professionals to follow up remotely with reports on treatment adherence.



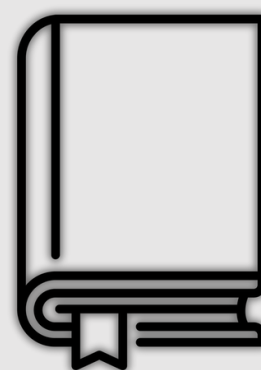
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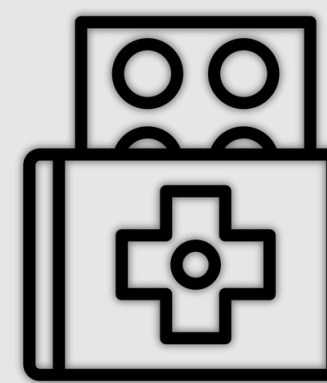
Methodology



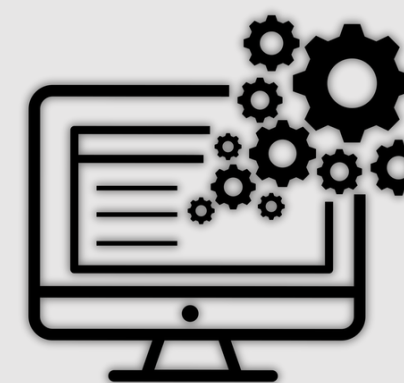
Website



Books



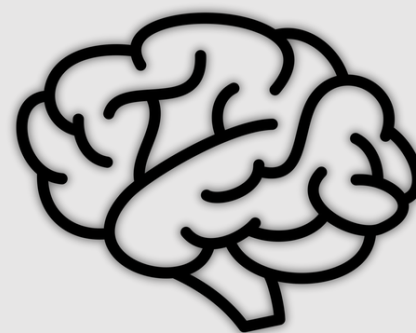
**Smart
pillbox**



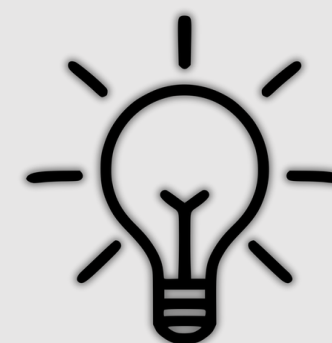
Technology



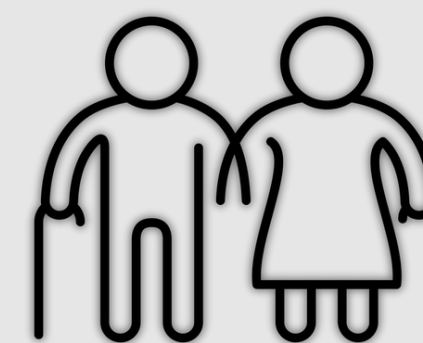
Health



**User
behavior**



**Practical
solution**



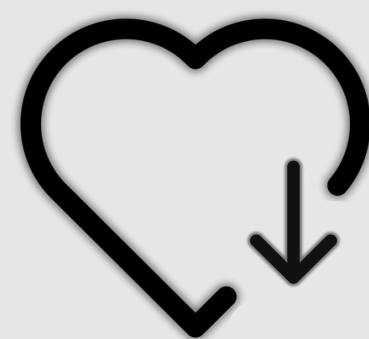
Elderly



Main Considerations Expected Impacts



Adherence



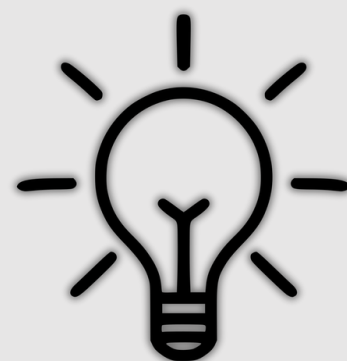
**Fewer
Complications**



Monitoring



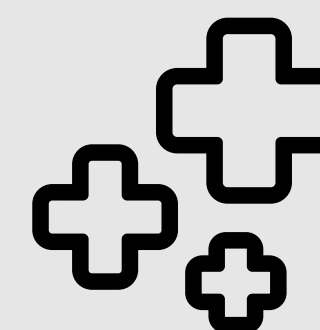
**Symptom
Improvement**



Understanding



Adjustments



**Health
Outcomes**

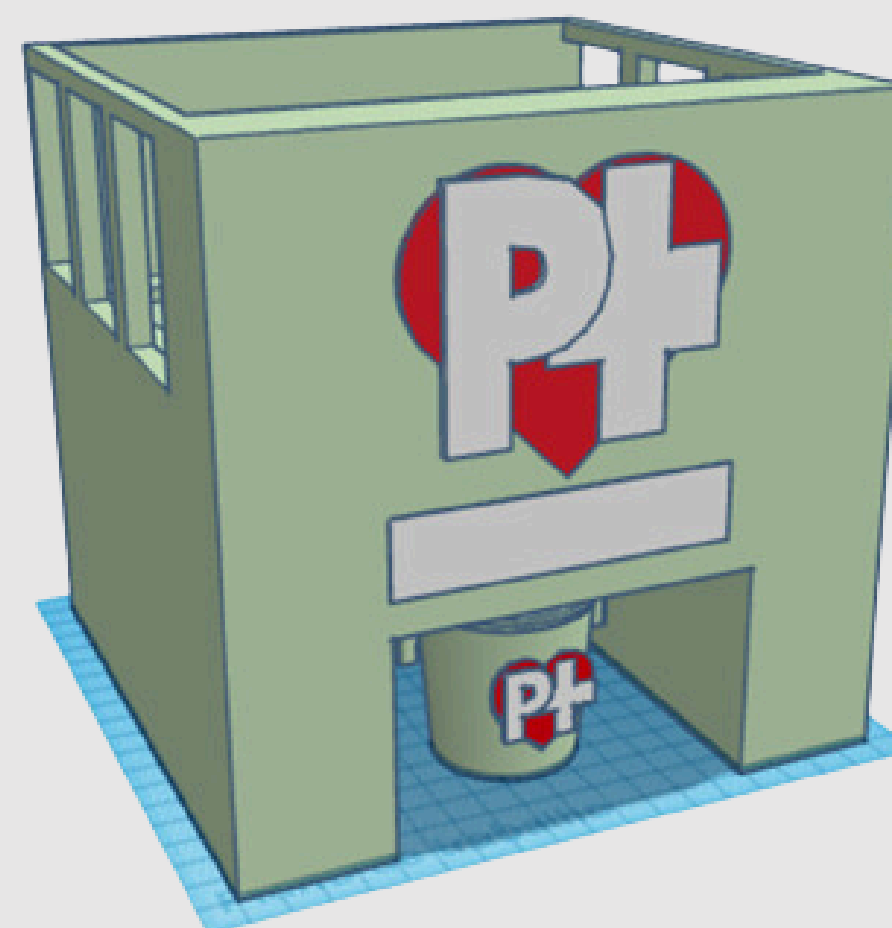


PillTrack System

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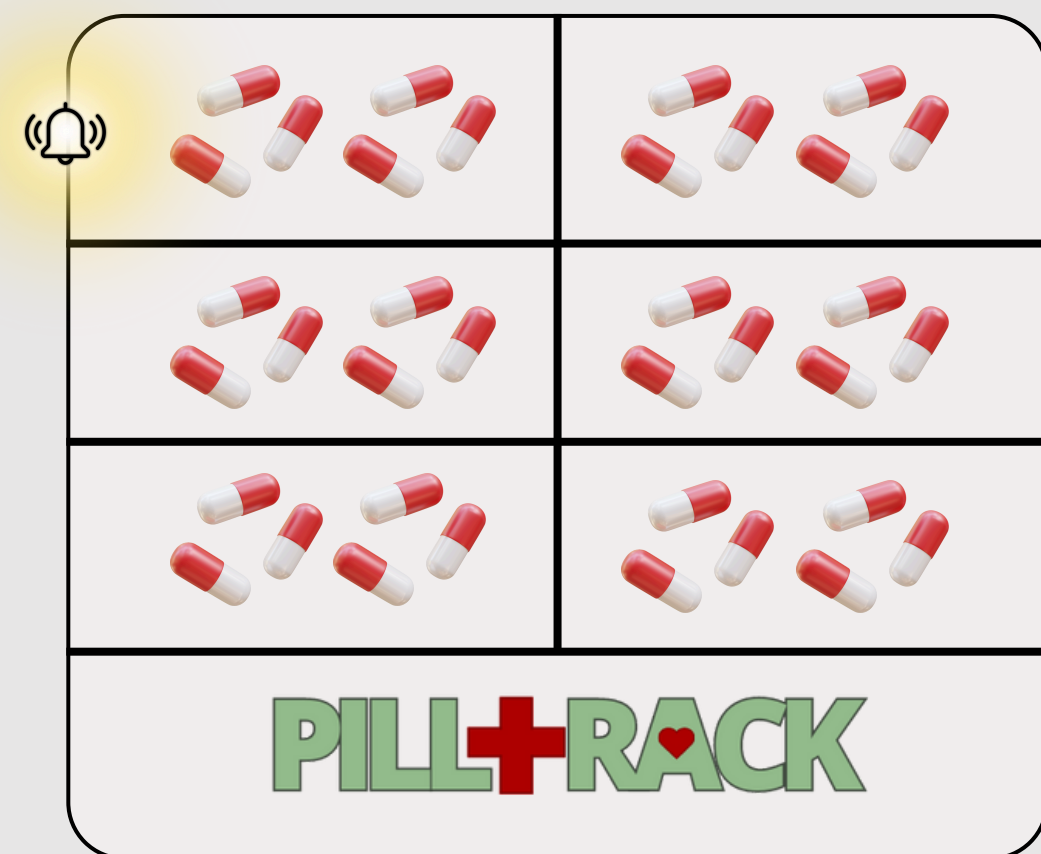


Source: From the Author, 2024

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PillTrack System



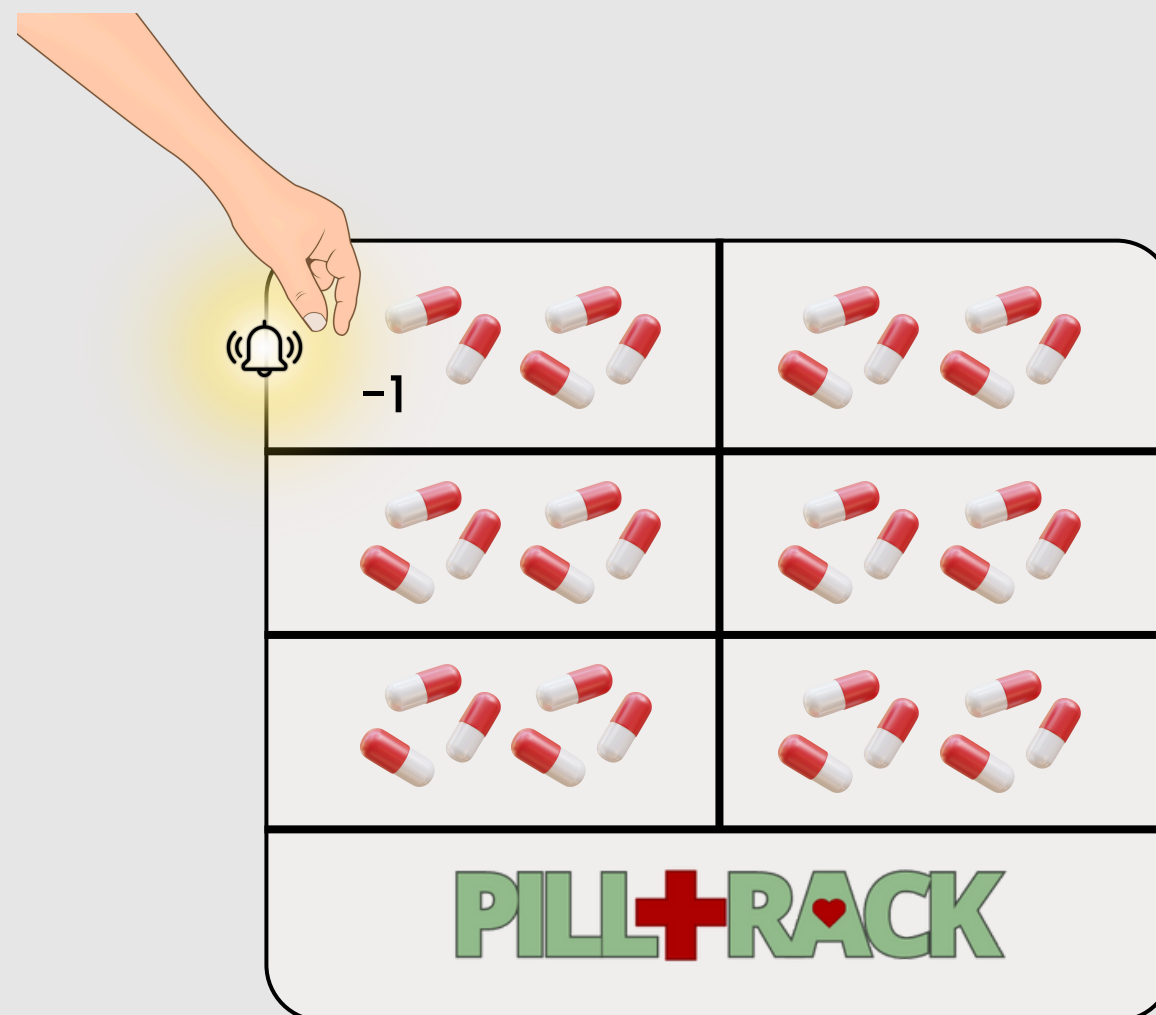
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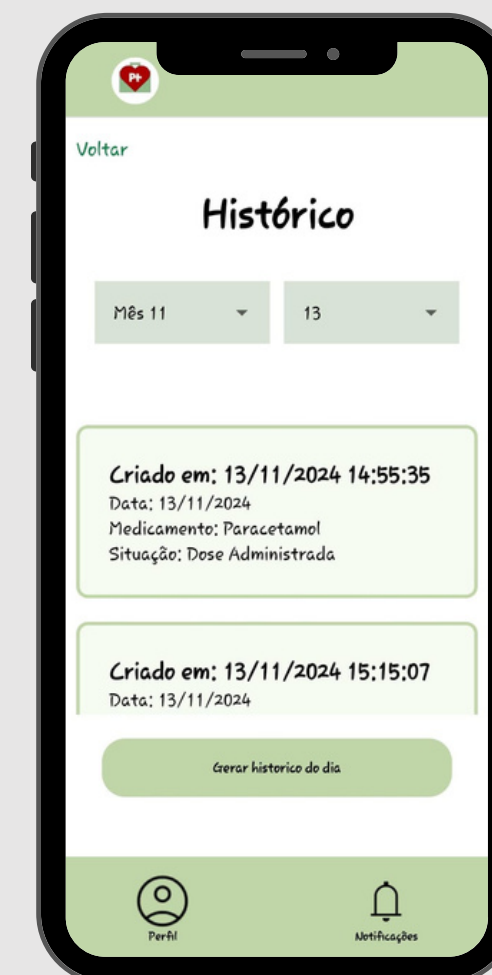
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PillTrack System



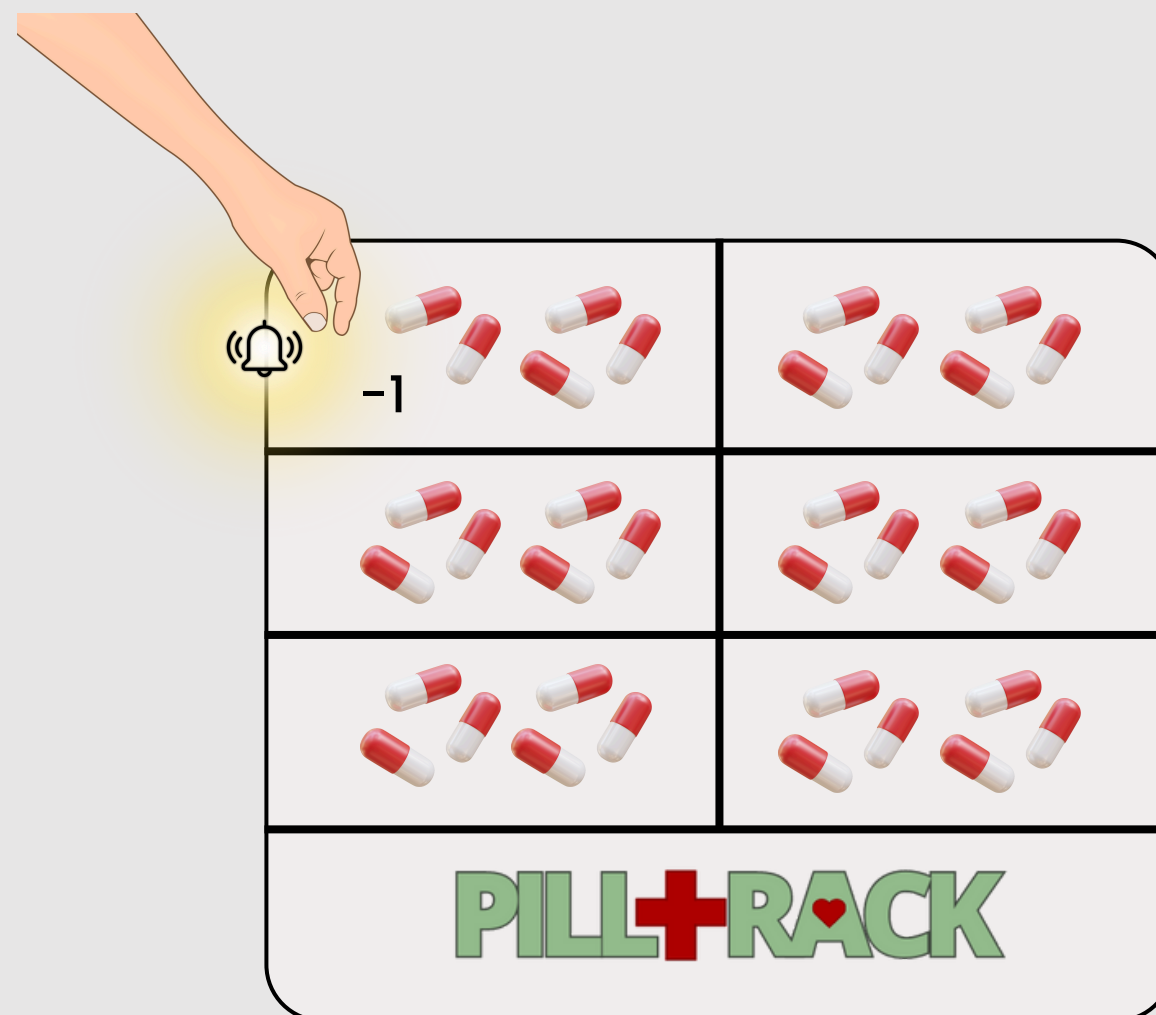
Source: From the Author, 2024



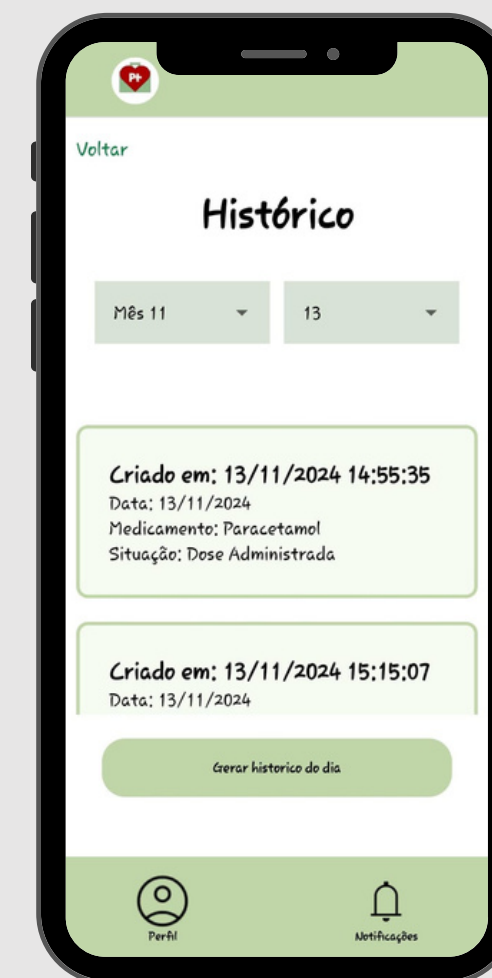
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Main Objective

Medication management is challenging, especially when it comes to patient adherence to prescriptions. And so PillTrack is here to offer a technological solution with the aim of improving the effectiveness of treatment and patients' quality of life.



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References

CAMPINAS, U. **Entenda o impacto e a importância do acompanhamento médico.** Available at: <https://www.unimedcampinas.com.br/blog/viver-com-saude/entenda-o-impacto-e-a-importancia-do-acompanhamento-medico>. Accessed on: March 26, 2024.

KATZ, Marcelo; FEITOSA, Gustavo Freitas; PINTO, Ibraim Masciarelli F.; FELIX, Marcelo de Maria; BORTOLOTTI, Luiz Aparecido. **USO DA TECNOLOGIA PARA ENGAJAR PACIENTES E OTIMIZAR A ADESÃO TERAPÊUTICA.** Revista da Sociedade de Cardiologia do Estado de São Paulo, [S.L.], v. 30, n. 3, p. 352-357, 20 out. 2020. Revista da Sociedade de Cardiologia do Estado de São Paulo. Available at: [07_revistasocesp_v30_03.pdf \(bvsalud.org\)](https://bvsalud.org/07_revistasocesp_v30_03.pdf) Accessed on: March 10, 2024, 20:54.

PIXEL DIAGNÓSTICOS. **A importância da comunicação entre paciente e profissional da saúde.** Available at: <https://pixeldiagnostico.com.br/blog/post/2020-10-10-a-importancia-da-comunicacao-entre-o-paciente-e-o-profissional-de-saude>. Accessed on: March 26, 2024.



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THANK YOU ALL!

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