

MIDMIND SMART PILL

TEAM: 51

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PROBLEM STATEMENT

The increasing prevalence of medication non-adherence among the elderly, particularly those in nursing homes and hospitals, poses significant risks to their health and well-being. Factors such as visual impairments, cognitive decline, and the complexities of managing multiple medications (polypharmacy) exacerbate this issue, leading to missed doses, incorrect medication intake, and potential adverse health outcomes. Addressing these challenges requires an innovative solution to ensure safe, accurate, and timely medication administration, ultimately enhancing the quality of care and patient outcomes.

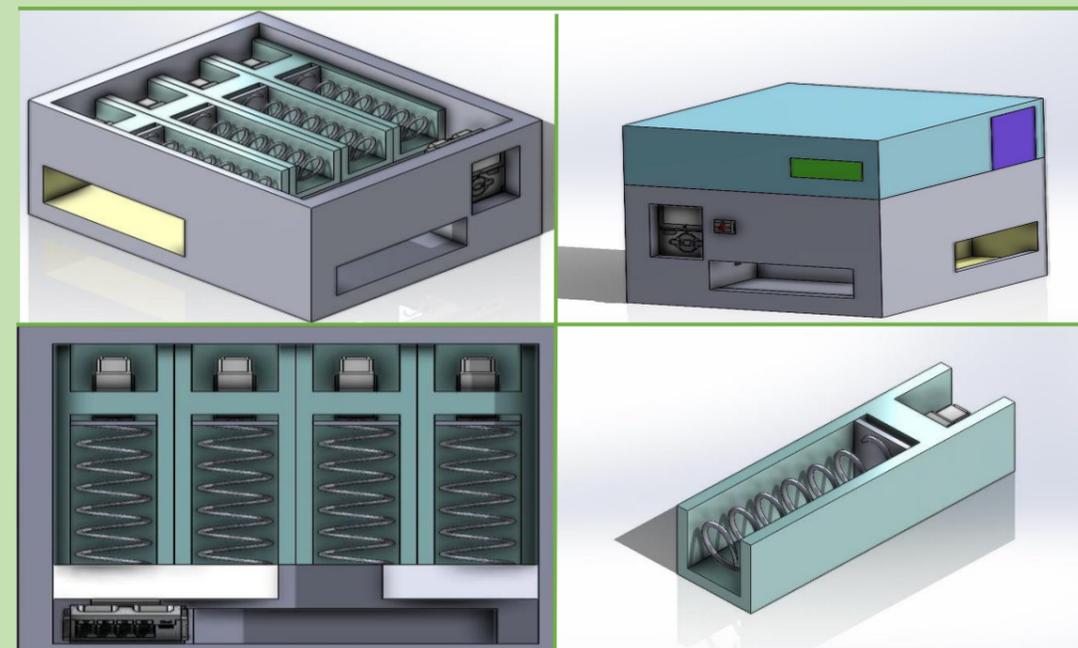


CONSTRAINTS

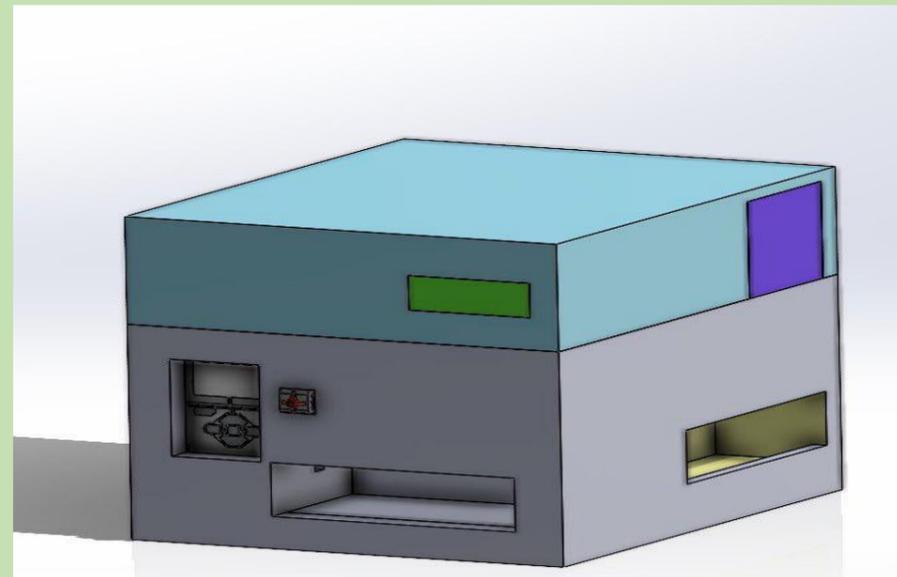
Easy to use Safety Stored Cognitive Accessibility Seamless Dispensing



PROTOTYPE DESIGN



MEDMIND SMART PILL BOX



SPECIFICATIONS

<u>Accuracy of Reminder</u>	<u>Temperature Controlled</u>
Between 0-2 minutes	from 9-16 Celsius
<u>Weight</u>	<u>Dimensions</u>
Between 0-2 kg	38x31x30 cm



PROJECT IMPACT

- Enhanced Medication Management
- Improve Patient Safety
- Streamlined Hospital Workflow



TESTING AND VALIDATION

Cost

5700 SR

Motor

Runs at 240-250 rpm

Capacity

7 Compartments

Frequency

13.56-16 MHz



CONCLUSION

The MedMind Smart Pillbox revolutionizes medication management with its user-friendly design, accurate dispensing, and safety features. Ideal for elderly users and hospitals, it enhances patient compliance, prevents errors, and streamlines workflows, providing a cost-effective, reliable solution for better healthcare outcomes.



FUTURE WORK

- Enhance All Features
- Expand Compartments
- Mobile App Integration