

IoT : Smart Home System

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Introduction

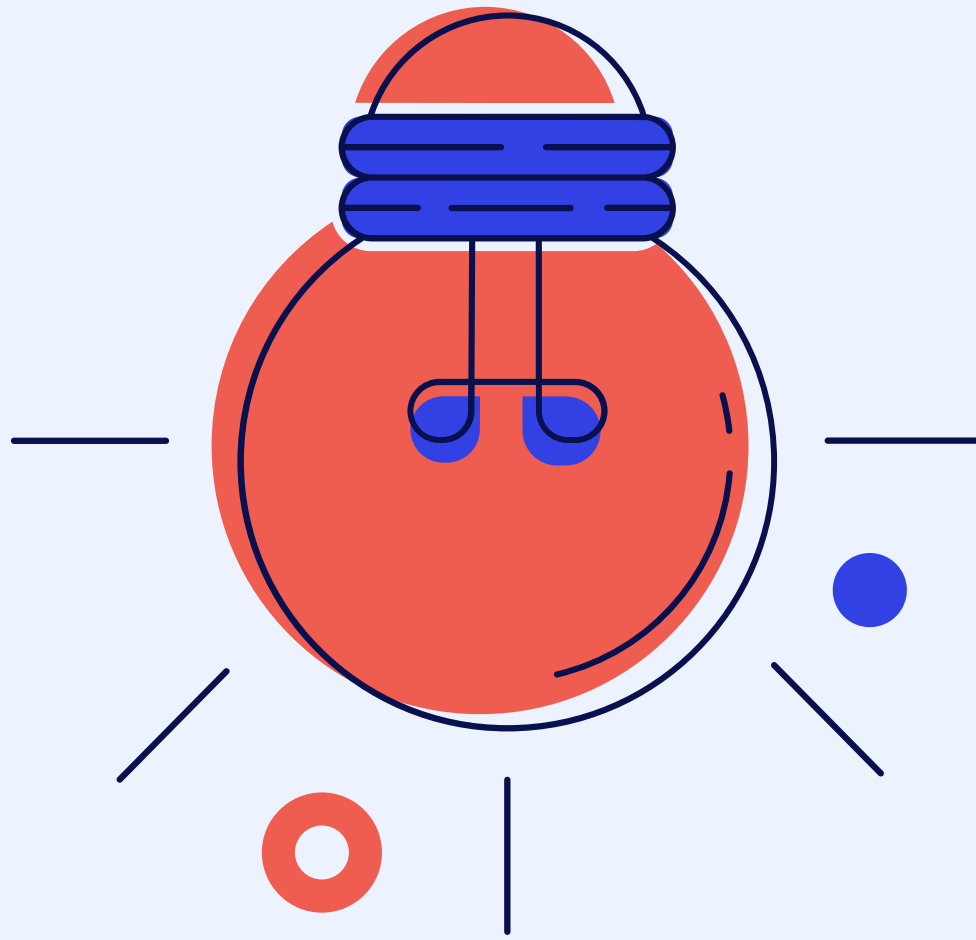


One of technologies in the 4th Industrial Revolution is Internet of Things (IoT). IoT is a platform that allows embedded devices to connect to the internet in order to exchange and collect data with other devices.

IoT is deployed in RFID, WiFi, ZigBee and Bluetooth.

We have chosen IoT application for our project.





PROBLEM & SOLUTION

Daily tasks and chores around the house is a hassle. Double checking doors before leaving the house or before sleeping can be tiring.

So, we designed a **Smart Home System** with IoT application to do those chores from security work to small tasks that saves cost, time and energy for you !

OBJECTIVES

- study the challenges in repetitive house chores.
- design impactful Smart Home System features.
- develop game changing IoT technologies.



→ **limitations**

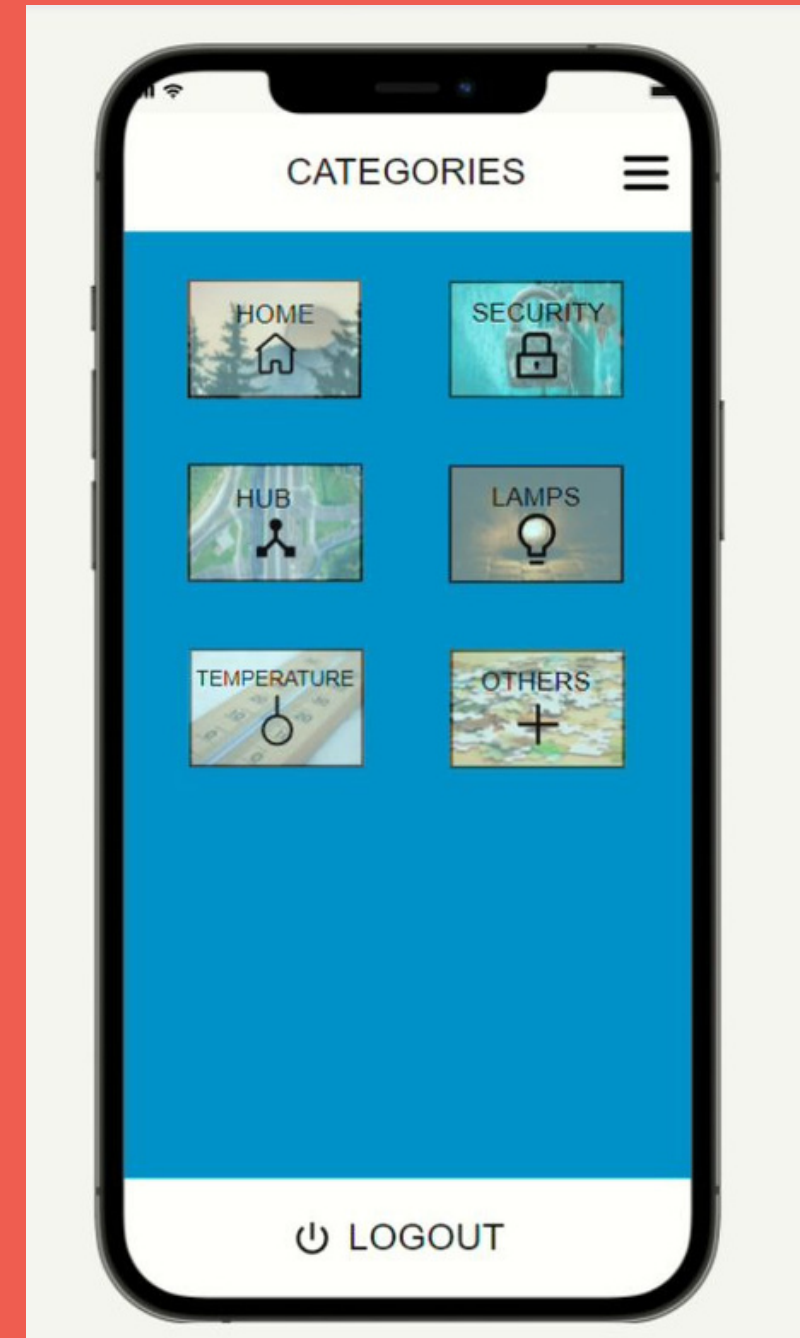
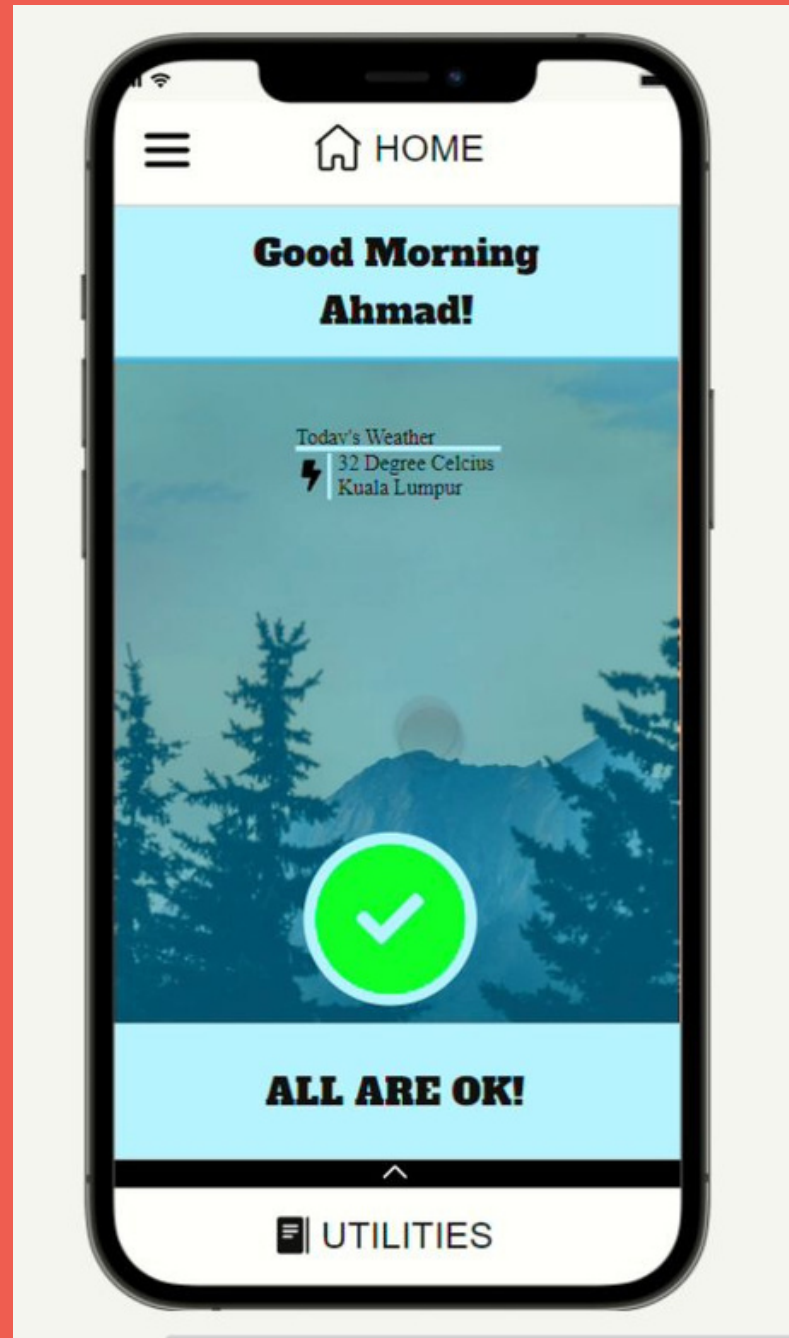
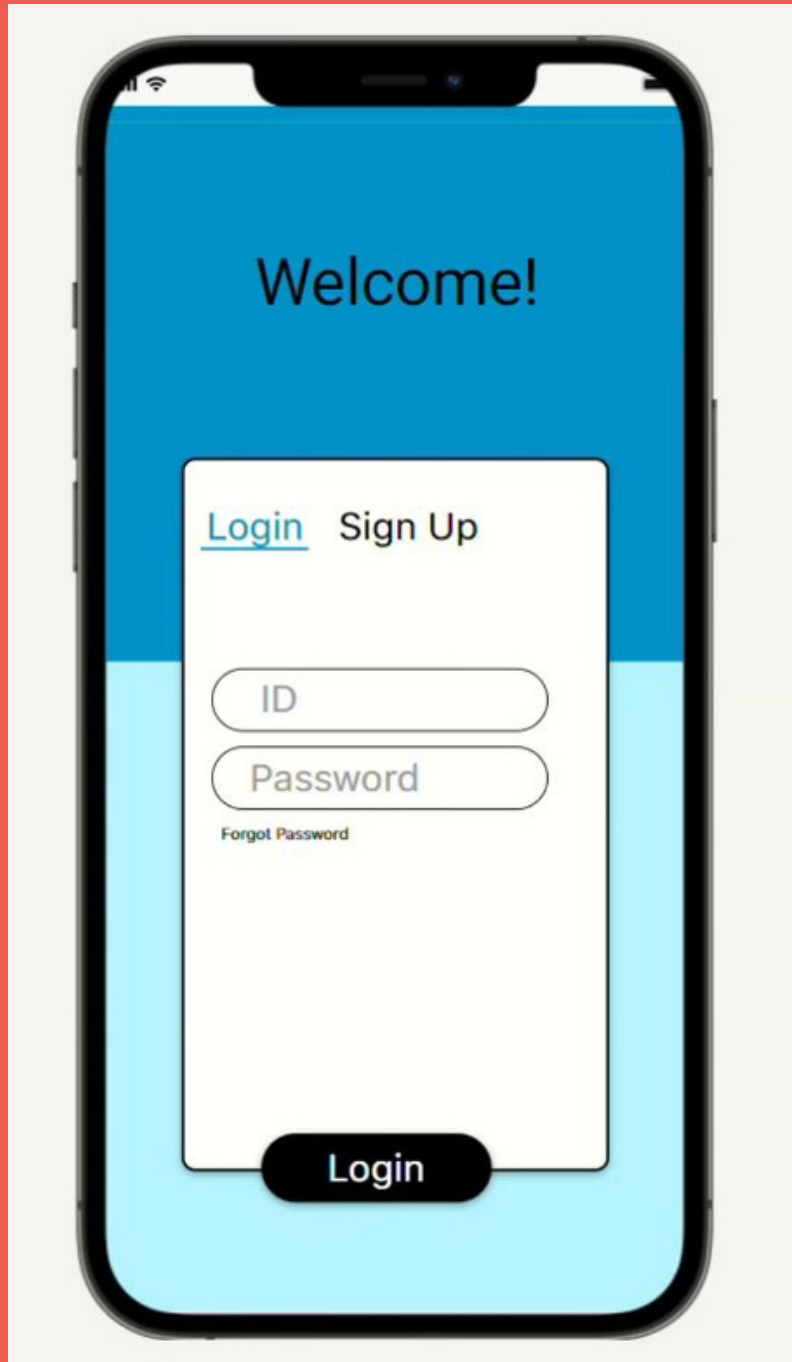
- cost of installation, integration and compatibility
- vulnerability of hacking and other security issues
- latency, bottlenecks and capability for continuous interactions
- ability and expertise to implement hardwares and softwares like Zigbee, Arduino, Intel Galileo or Raspberry Pi.

what to expect ←

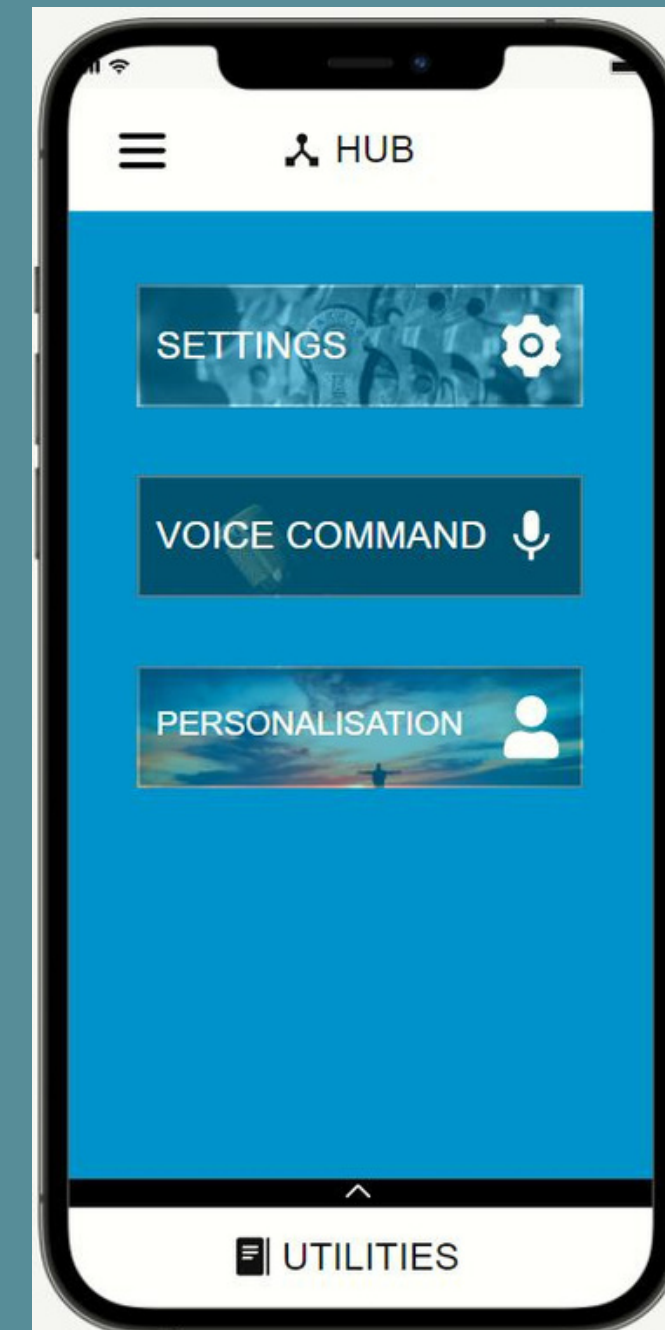
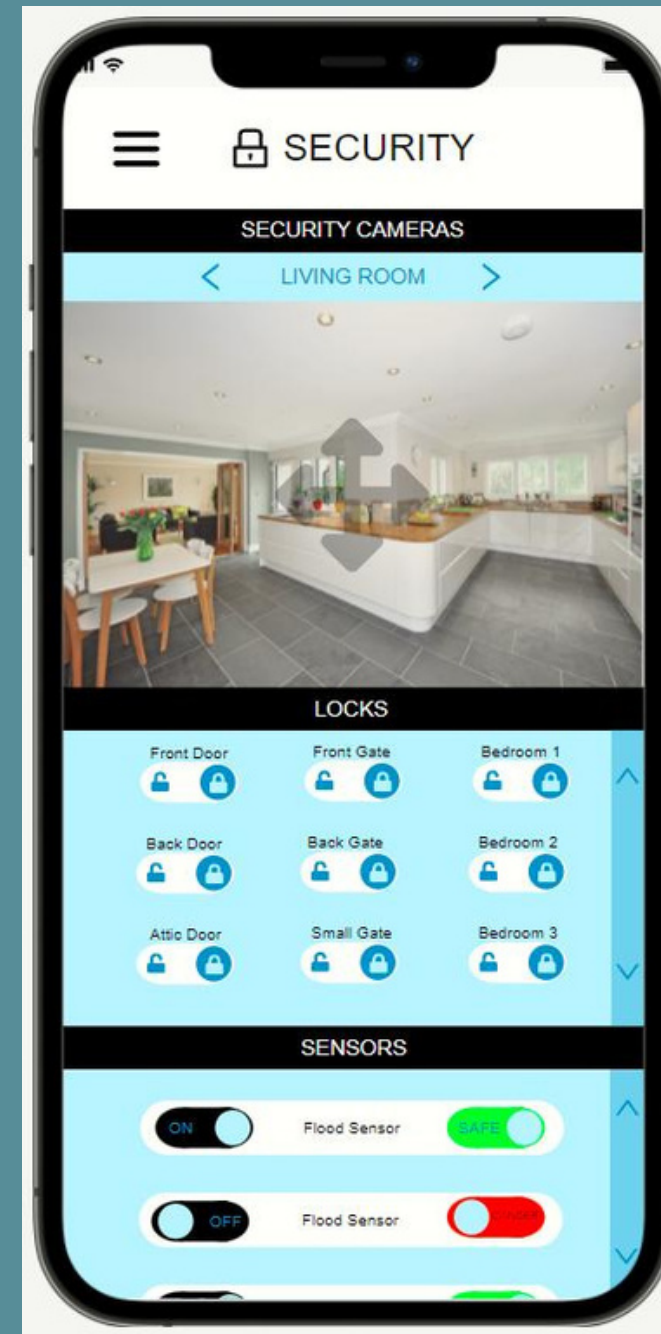
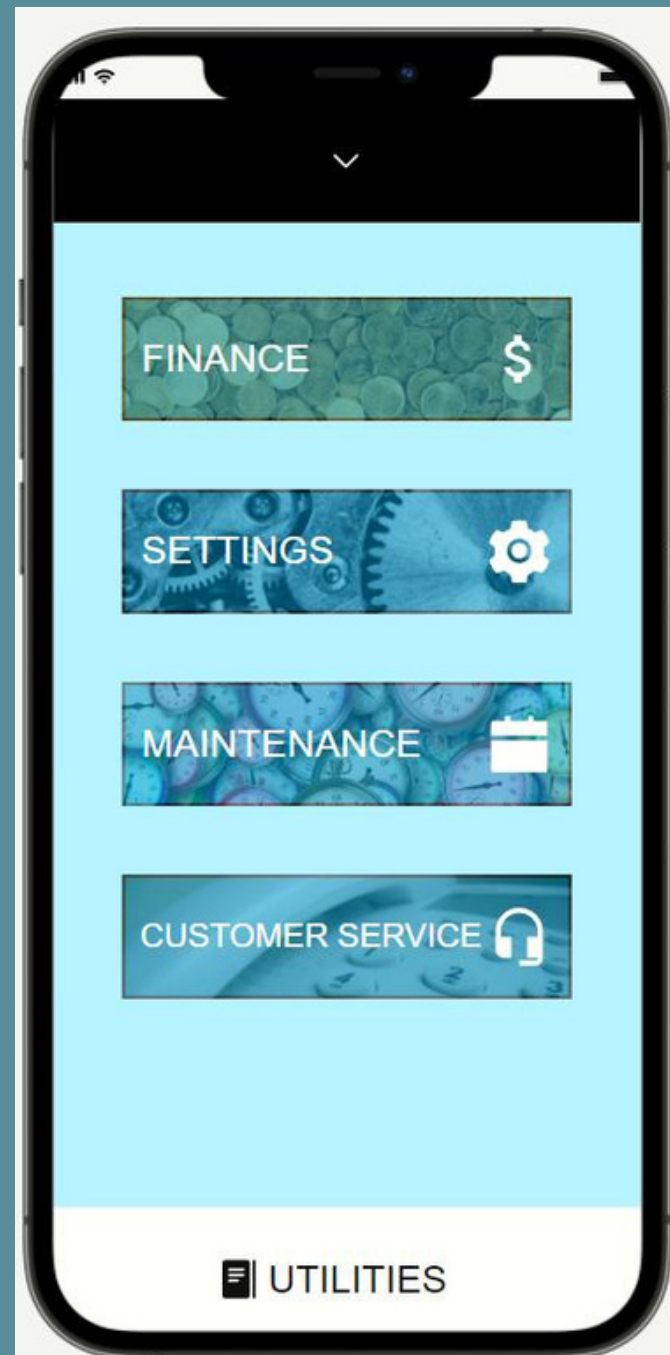
- general knowledge of IoT applications mechanism, including hardwares, softwares, benefits and backdraws.
- current market and prospects of IoT products
- key things to consider when proposing and creating projects.



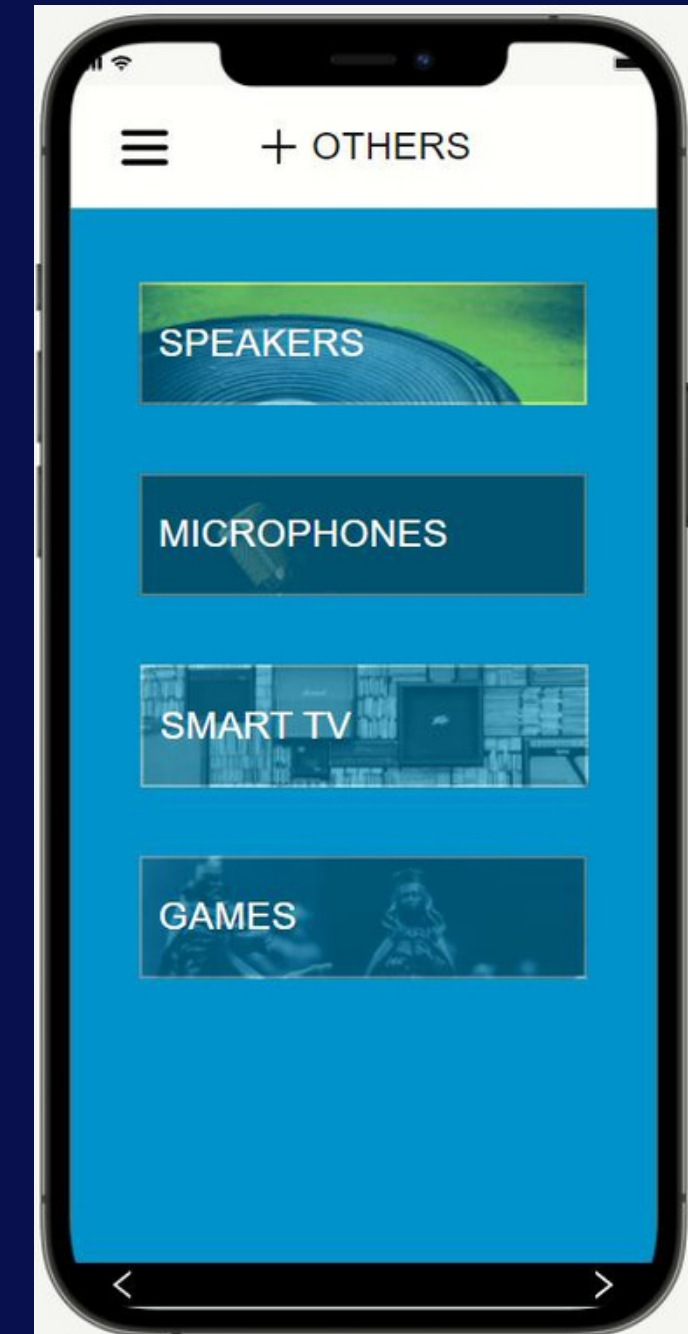
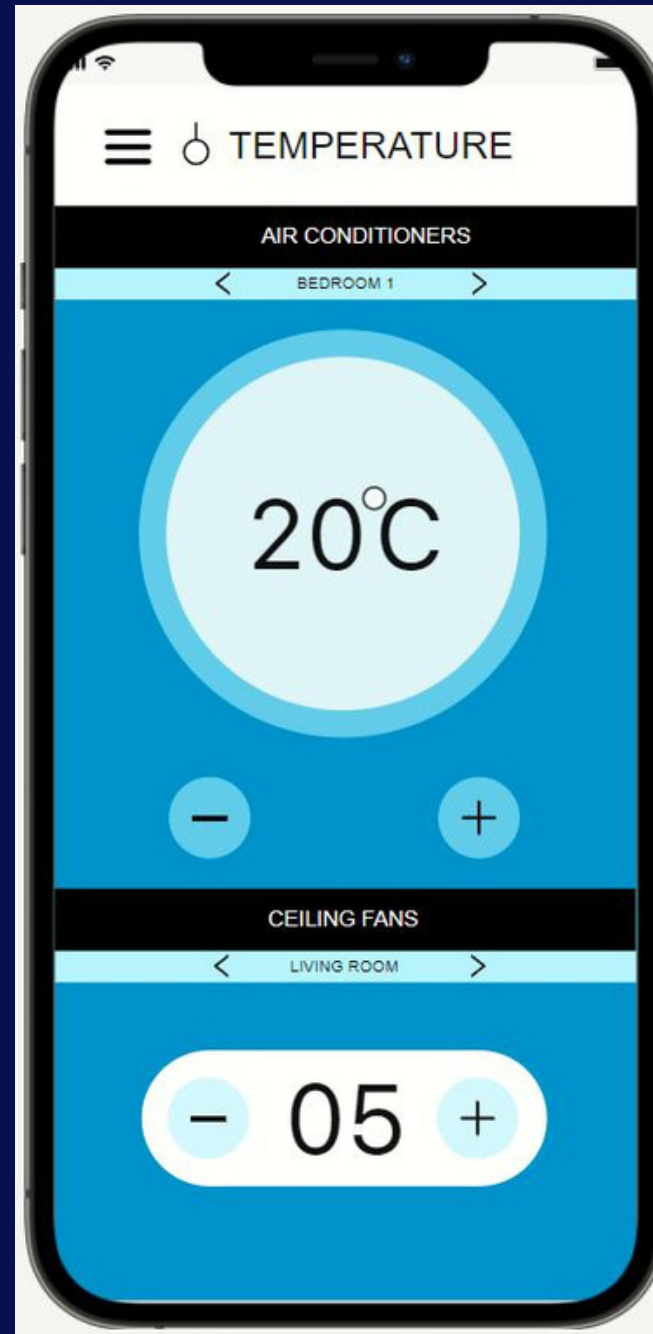
PROTOTYPE



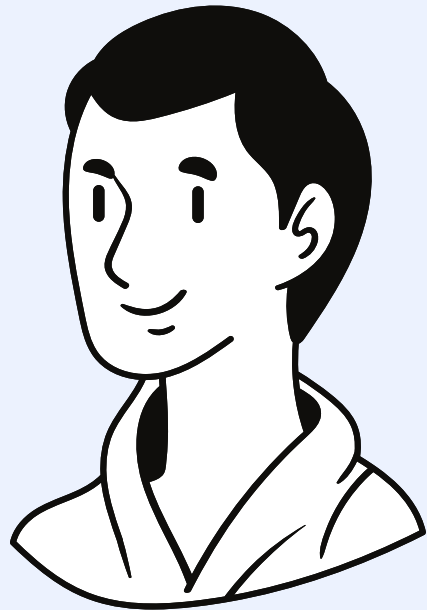
PROTOTYPE



PROTOTYPE

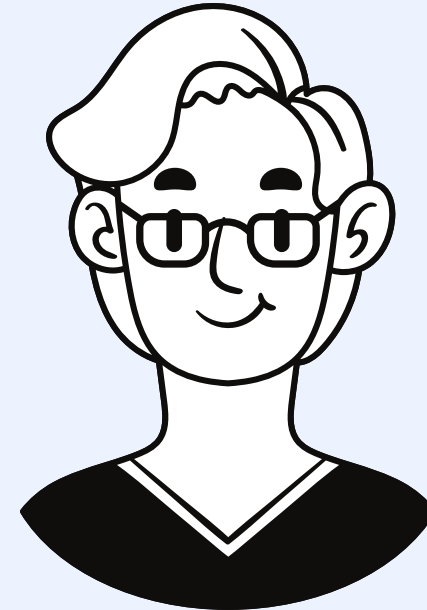


How We Delegate Tasks



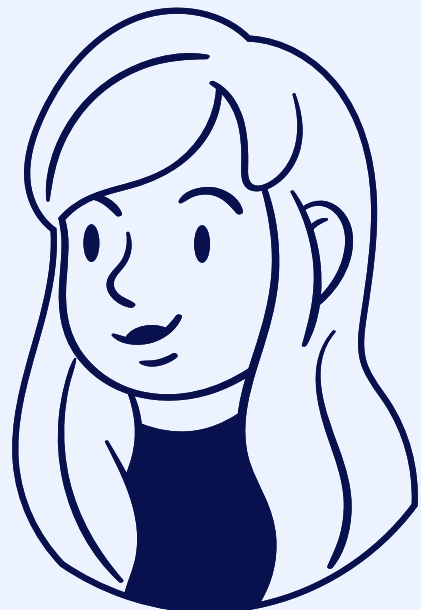
Ahmad Jalkhan

Introduction, Part of
Description, Low-fidelity
mock-ups & Conclusion



Airil Haziq

Selection of 4th IR
technology, Steps & Part of
Description



Nik Aishah

Potential Client
Identification & Business
process flow diagram and
its description



Hazman

Cloud Architecture
Planning and Design &
AWS



reflections

IoT technologies are crucial.

We've learnt how despite its convenience, it hasn't been implemented as vastly as it should. So, we had to overcome some issues, regarding the planning and design of our project. Our understanding of 4th IR is quite sparse, so after our intensive research we were able to successfully create our Smart Home System.

We hope to experiment and explore more on project making and any potential markets that implement the technologies of the 4th Industrial Revolution. We also hope to learn more about cloud computing and create other projects using IoT application.

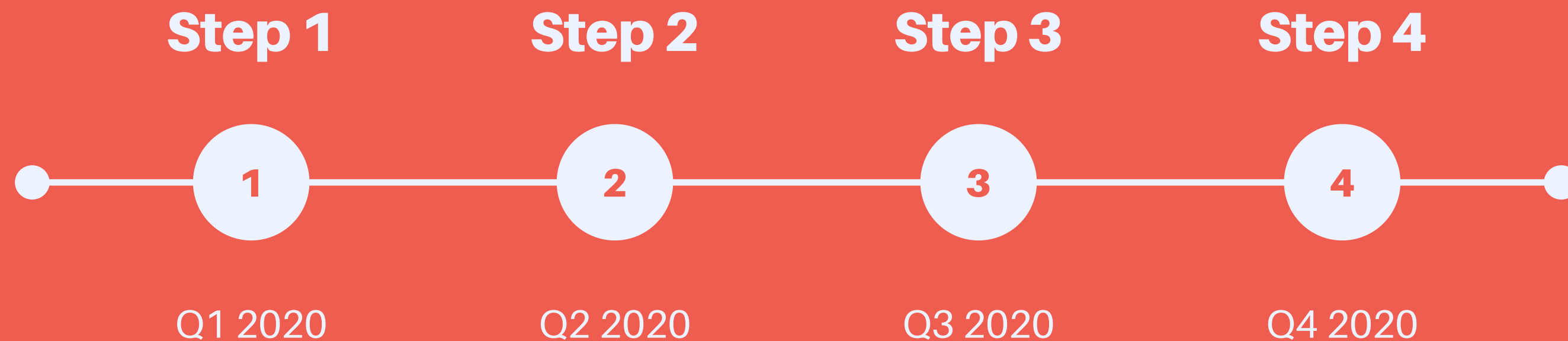
CONCLUSION

The priority of our project is to create a system that assists people in repetitive household tasks, saving time for leisure or work. With the use of Internet of Things technology and cloud architecture assistance, our system will have the ability to automate every task from lighting to security, enhancing our user's experience and boosting productivity and efficiency, a holistic Smart Home System.



Future Roadmap

What are your next steps and goals? How much support do you need from investors and what will it get you?



Free Resources

Use these free, recolourable
icons and illustrations in your
Canva design.

