

Fourth Element Energy University of Melbourne



PRE-DESIGN GEOTHERMAL TOOL

Name of Project : IOS Mobile App

Team: IO-Redback

Date: May 24, 2023



Agenda

- The Team
- Background
- The product
- Benefit
- Demo
- Handover to client
- Challenges



Team member



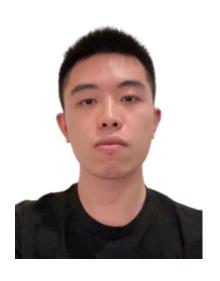
Luke RosaSupervisor



Ruiqi Pang
Product Owner



Yichen LiuScrum Master



Yuntian Wan
Developer



Yuwei Gu Developer



Haoyuan He Developer





Background

The client

- Guillermo Narsilio Ferrero
- Fourth Element Energy Pty Ltd

The problem

- the IOS app was published in 2016
- some functions are out of date
- new requirements

Product

A pre-design IOS tool employed for calculating geothermal systems.



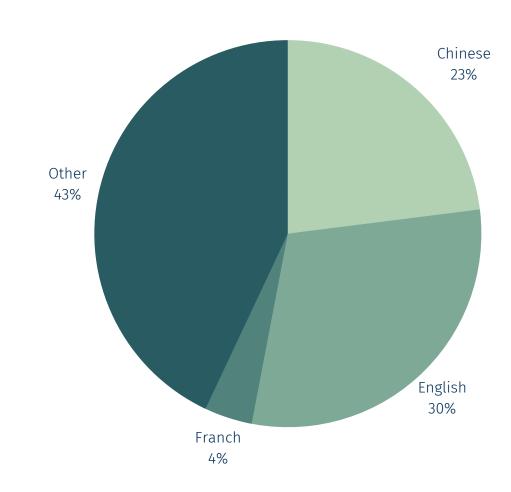
Benefit



Better user experience

Languages spoken by nearly half of the world's population can be covered

Green energy



DEMO!

NAME

Ethan Jackson

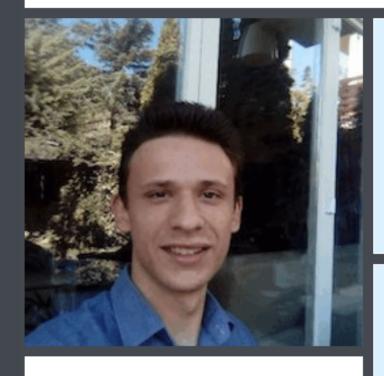
MARKET SIZE



45 %

TYPE

Junior Engineer



Bio

Ethan Jackson is a 25-year-old entry-level geothermal system engineer. He recently graduated with a degree in infrastructure engineering and has been working in a company that specialises in geothermal systems for 6 months. He has a basic understanding of geothermal systems and is able to complete the geothermal system design under the guidance of senior professionals. He is eager to learn more and gain practical experience in designing efficient and cost-effective geothermal systems for buildings.

Quote

Empower me to design a greener tomorrow.

Demographic

Male

years

Australia

Geothermal system engineer

Goals

- · Use the app to design geothermal systems individually and improve his business skills.
- · Quickly gain a solid understanding in geothermal systems and their components.
- · Stay up-to-date with the latest industry trends and guidelines.

Frustrations

- It would be time consuming to complete the entire system design independently at his
- · He finds it challenging to understand some technical abbreviations and calculations.
- · He needs to use multiple tools for the designing and calculating of geothermal systems.



Handover to client





After we deploy the software on Testflight, client can test it.



Once the client approves our software, it can be deployed to the App Store



Challenges

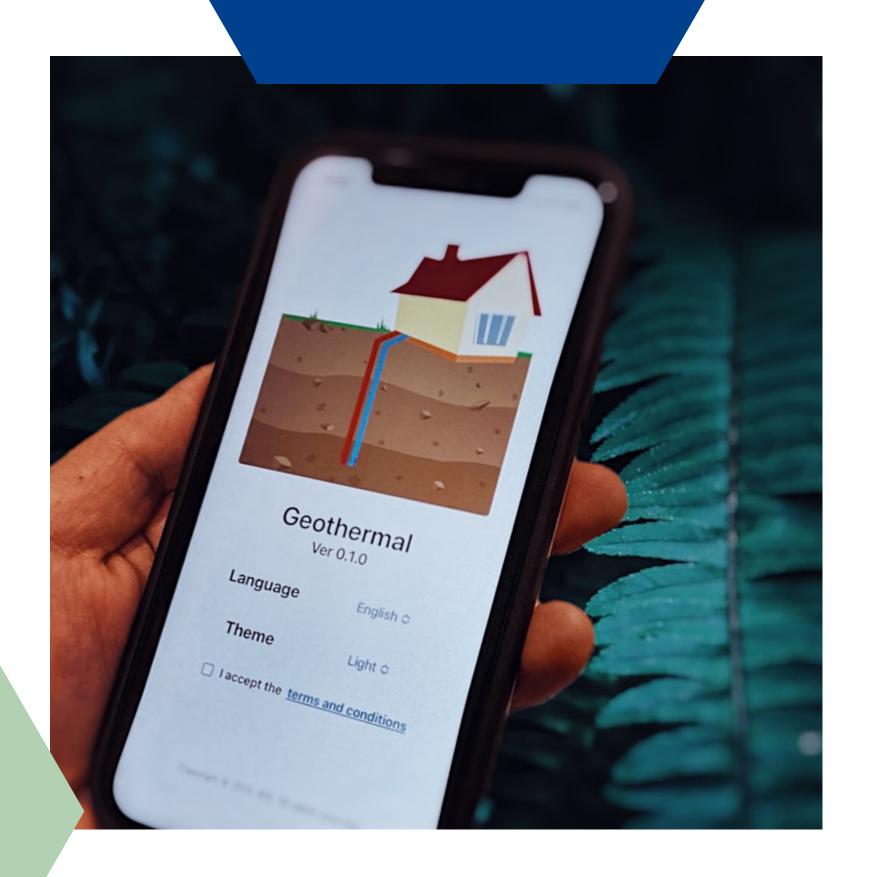
No experience

2. Communication



3. Refactoring





Thank you!