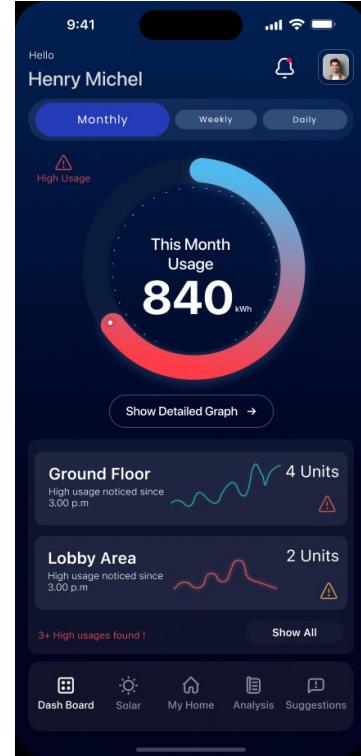


A UX Case Study

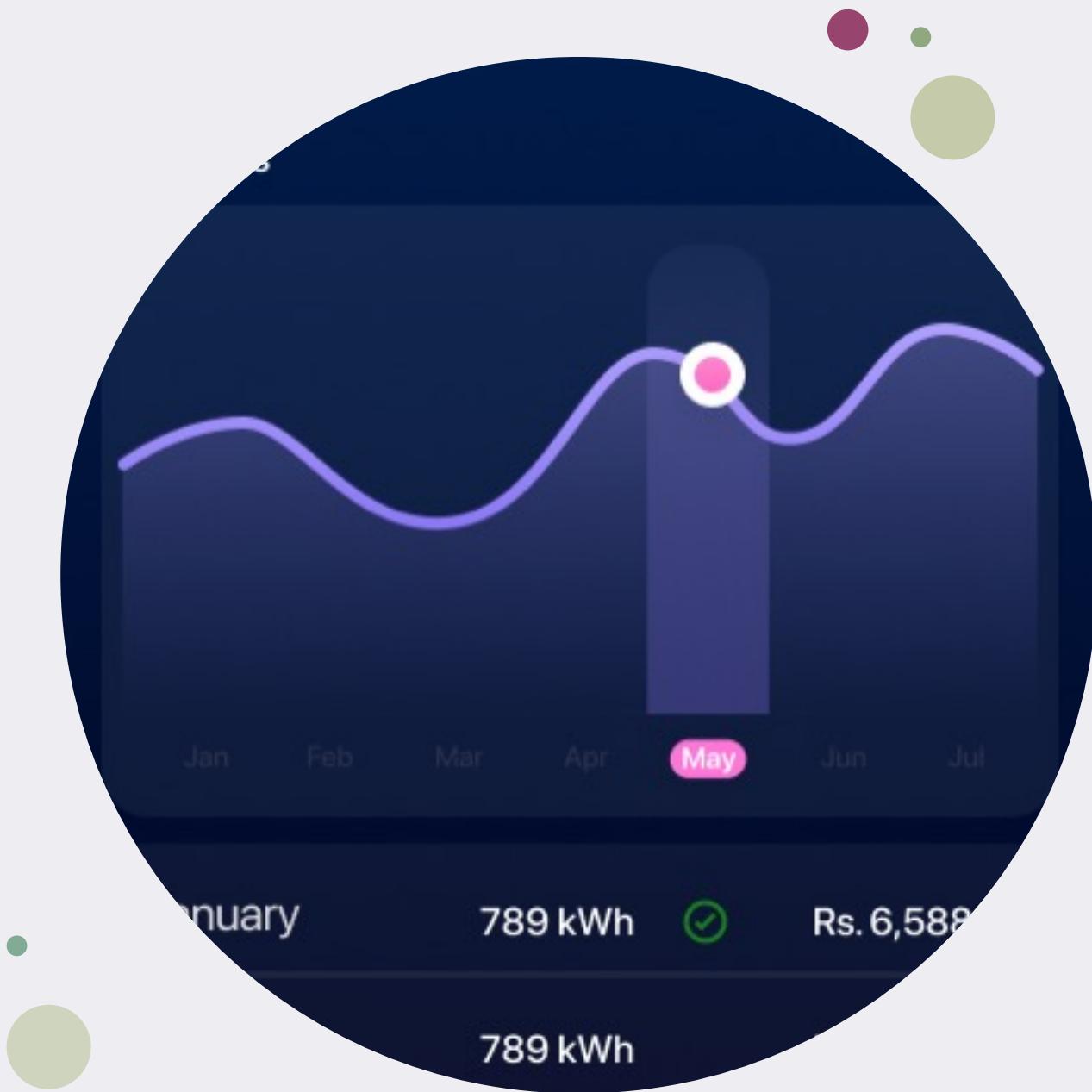
Ecopilot

FOR A BETTER EXPERIENCE



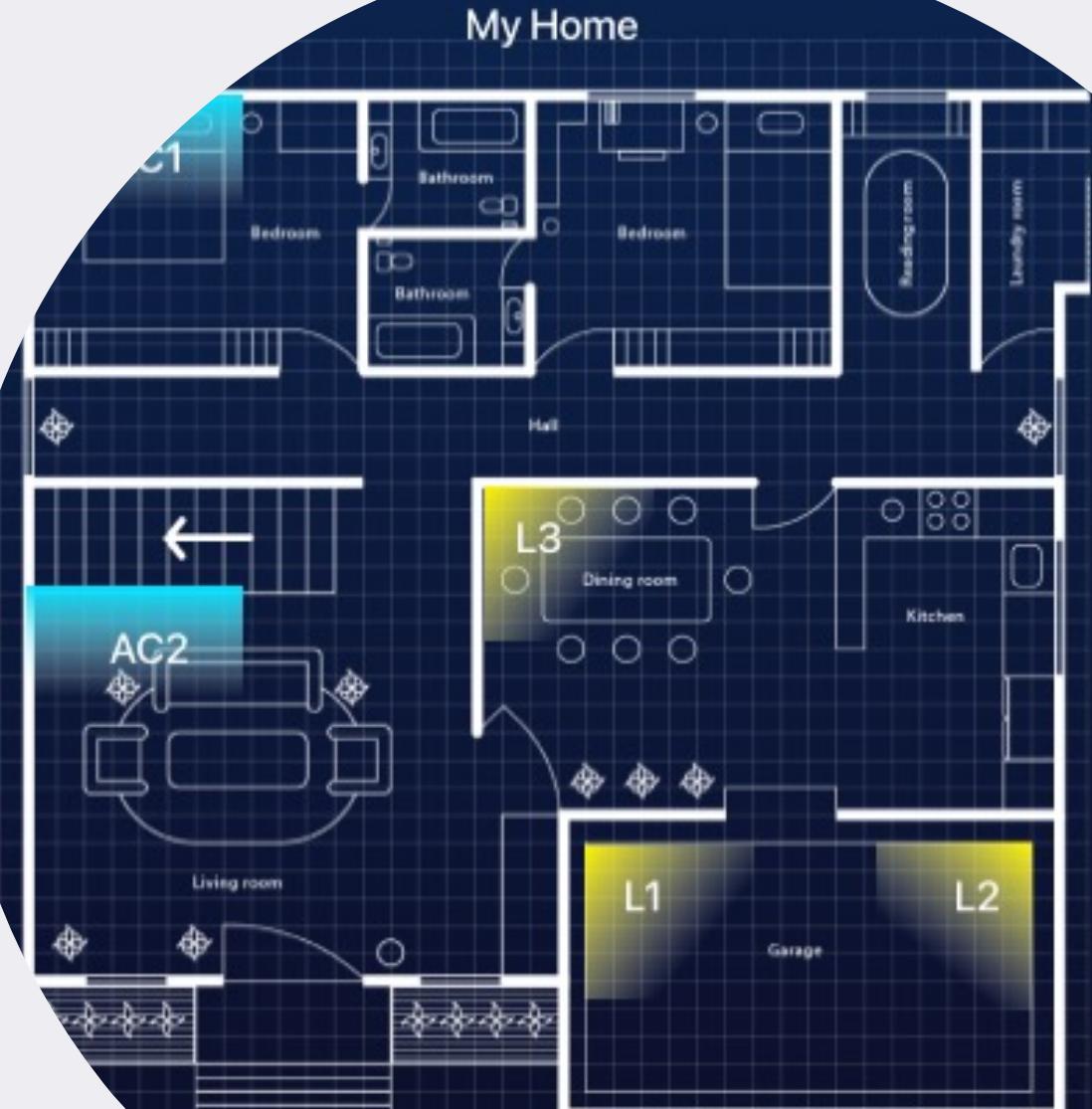
INTRODUCTION

'Ecopilot' is a user-friendly application that allows users to track their day-to-day power usage, and get suggestions on how to efficiently manage their high energy consumption appliances or replace them with better options. 'Ecopilot' is an application that heavily promotes energy efficiency and conservation. Thus, taking a small step towards economic growth with the reduced waste of energy. The prototype was designed taking practices such as simplicity, typography, use of defaults, into consideration in order to provide a greater user experience. Consistency was also ensured with texts and icons in detail throughout the design. The target audience of 'Ecopilot' is any individual who has a basic knowledge of using a mobile application.



THE PROBLEM

Most economies worldwide are grappling with a profound energy crisis, and Sri Lanka is no different. Consequently, citizens are burdened by soaring inflation in essential energy resources. The majority of users encounter challenges in accessing information about their power consumption, leading to surging electricity bills. Having an efficient method to track their daily electricity usage would be crucial in seeking a remedy for this pressing issue.



RESEARCH



RESEARCH BACKGROUND



The need for energy efficiency and conservation has become increasingly crucial in light of the ongoing global energy crisis. Most economies face challenges related to rising energy costs and increasing energy consumption, which has led to a demand for user-friendly tools to help individuals manage their power usage effectively. In response to this growing concern, the application 'Ecopilot' was developed.

RESEARCH



RESEARCH OBJECTIVE



The main objective of the 'Ecopilot' application is to enable users to track their day-to-day power usage and receive personalized suggestions on how to optimize energy consumption. The primary goal is to promote energy efficiency and conservation among users, ultimately contributing to economic growth by reducing energy waste.

RESEARCH



DESIGN CONSIDERATIONS



The prototype of 'Ecopilot' was meticulously designed with a strong focus on user experience. Key design principles such as simplicity, typography, and the use of defaults were incorporated to ensure a seamless and intuitive user experience. Consistency in text and icon usage was emphasized to create a cohesive and visually appealing interface.

RESEARCH



TARGET AUDIENCE



The target audience of 'Ecopilot' includes individuals who possess basic knowledge of using mobile applications. The application aims to be accessible and user-friendly, catering to a wide range of users who want to take control of their energy consumption and contribute to a more sustainable future.

USER PERSONA

Name – Isuru Ariyarathna / Trineer Software Engineer

Age – 23

Location - Colombo

About – Currently lives in Colombo with a hometown in Kandy. Work as a trainee software engineer and are also a university student. Leaves home at 8:00 a.m. in the morning and returns at 5:00 p.m. Twice a week, work from home, leading a busy life.

Frustrations – Facing an issue with a high electricity bill and struggles to track their day-to-day electricity power usage. Additionally, find it difficult to discover an easy method for bill payment.

Goals- Reduce the electricity bill as waste too much money on it. Also aim to find a simple and convenient bill payment method while effectively monitoring their daily electricity usage.



USER PERSONA

Name – Senal Fernando/ Trineer Software Engineer

Age – 23

Location - Negombo

About – Currently lives in Negombo. Work as a trainee software engineer and are also a university student. Leaves home at 8:00 a.m. in the morning and returns at 5:00 p.m. Twice a week, work from home, leading a busy life.

Frustrations – Facing an issue with a high electricity bill and struggles to track their day-to-day electricity power usage. Additionally, find it difficult to discover an easy method for bill payment.

Goals- Reduce the electricity bill as waste too much money on it. Also aim to find a simple and convenient bill payment method while effectively monitoring their daily electricity usage.



THE SOLUTION



Track the day-to-day electricity usage, monthly electricity bill payments, and the current moment's electricity usage of the house.



Monitor solar power generation and income on a daily, monthly, and weekly basis.



Receive daily notifications regarding solar and electricity usage and generation.

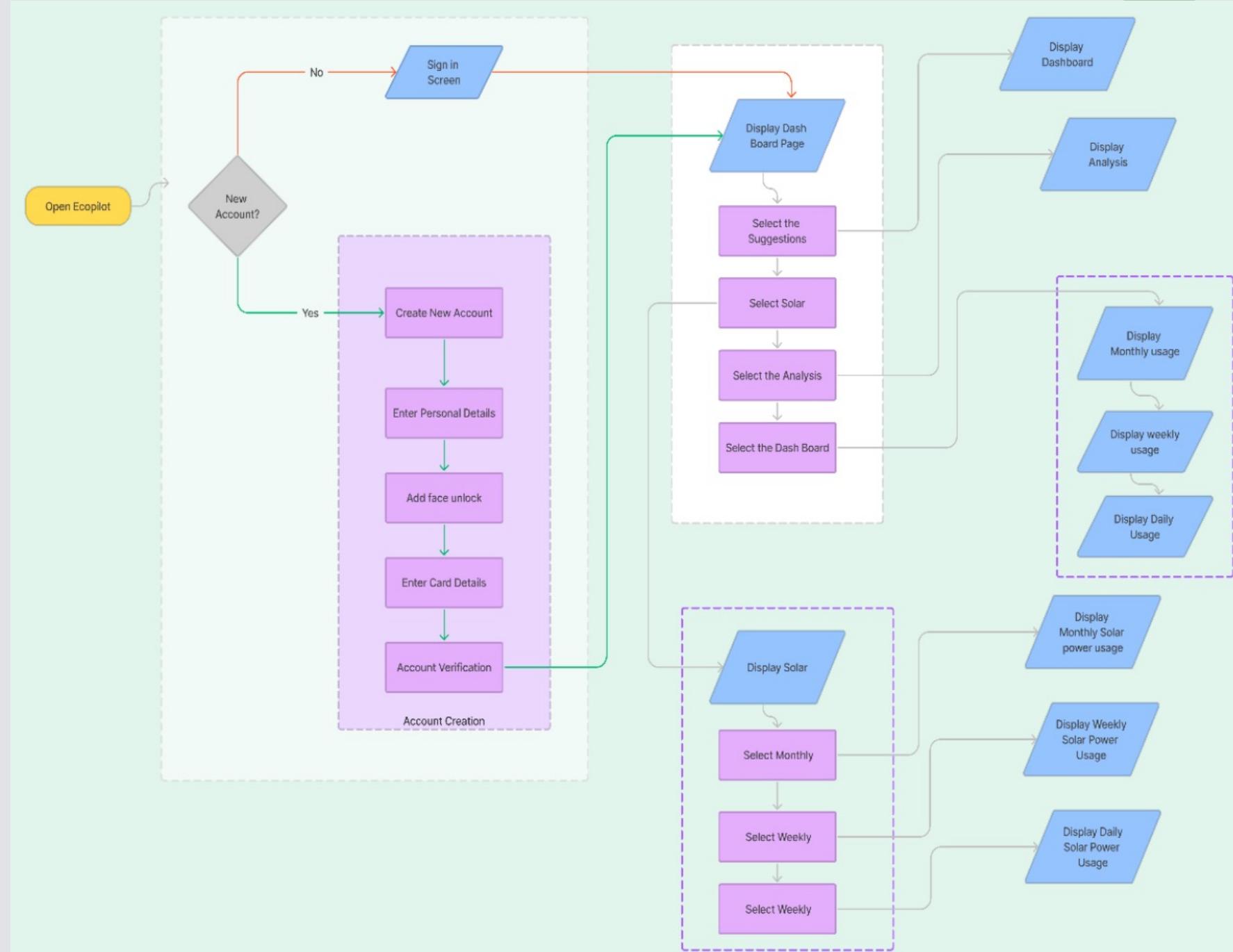


Provide suggestions with proper explanations to reduce electricity consumption.

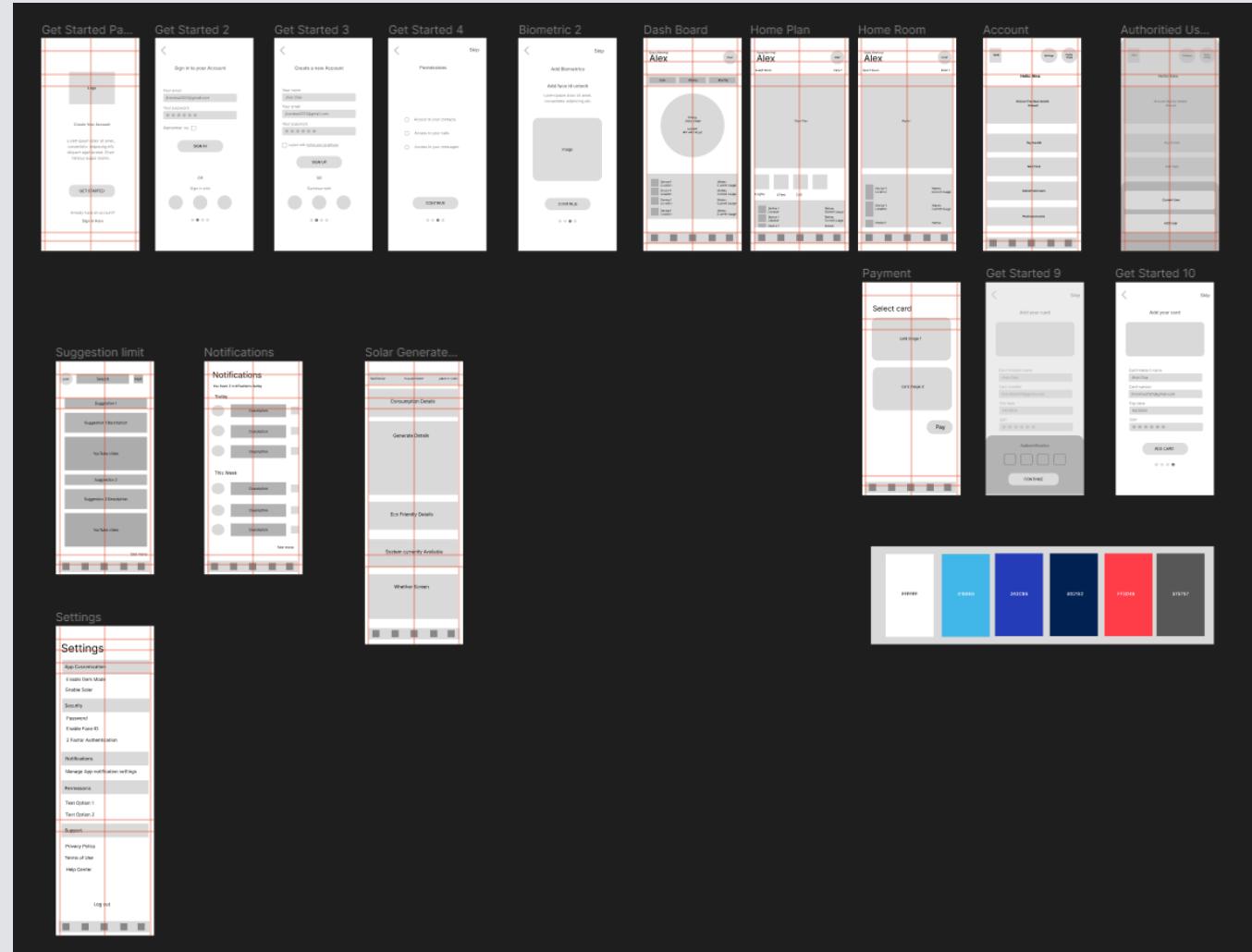


Ability to make payments for electricity bills.

USER FLOW

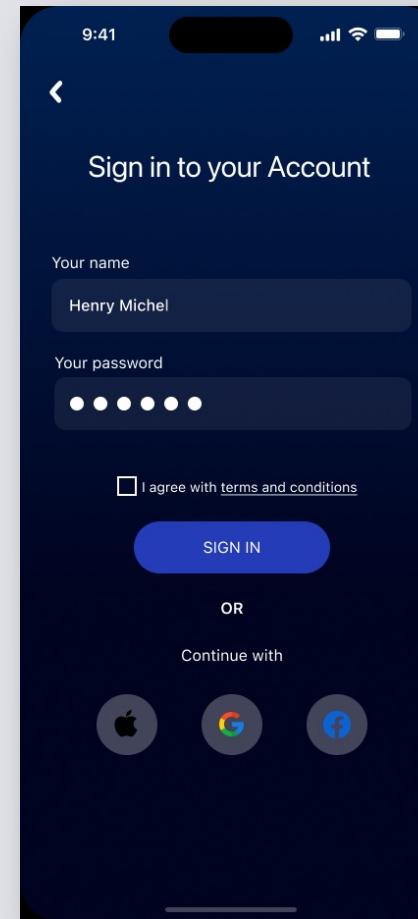


Ecopilot APP WIREFRAMES



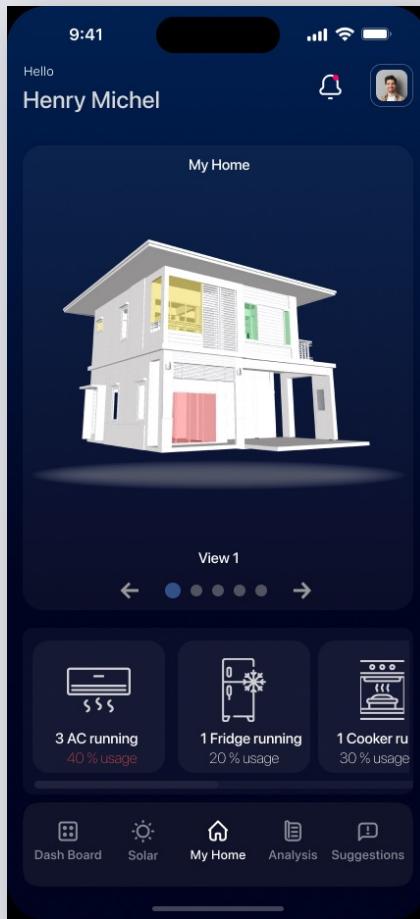
HIGH FIDELITY DESIGN

Get stated



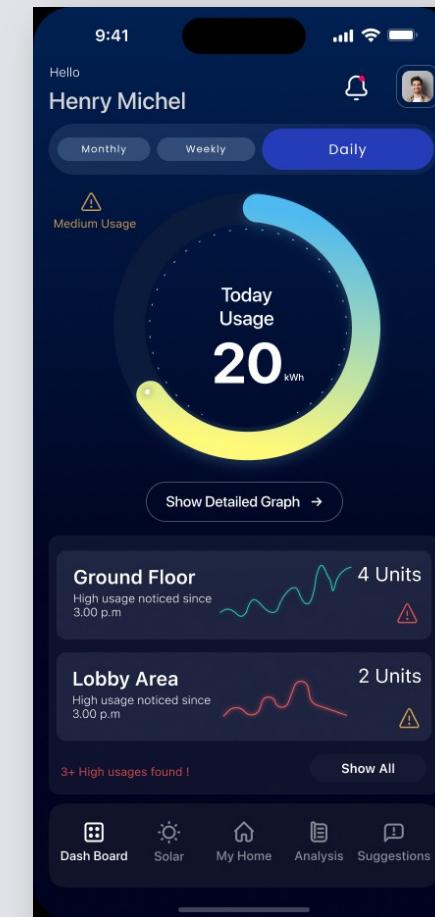
HIGH FIDELITY DESIGN

Home



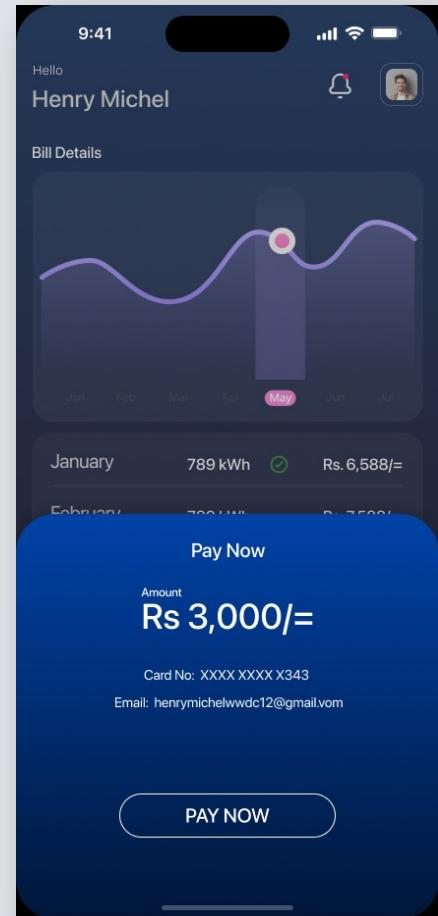
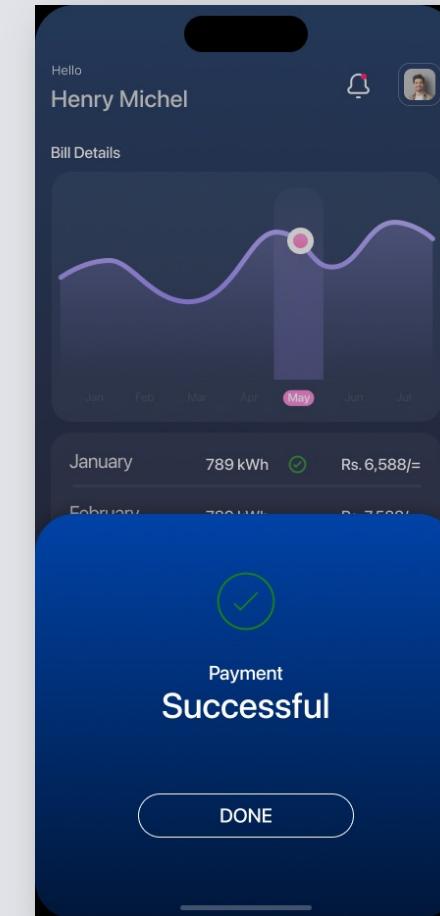
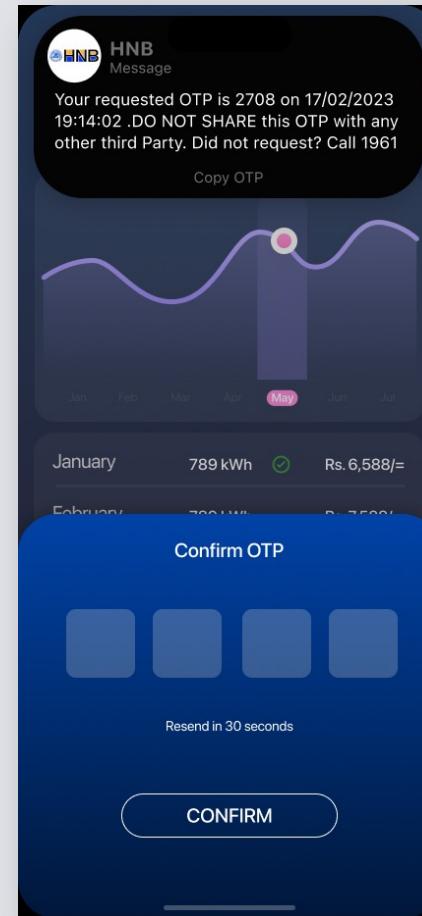
HIGH FIDELITY DESIGN

Dashboard



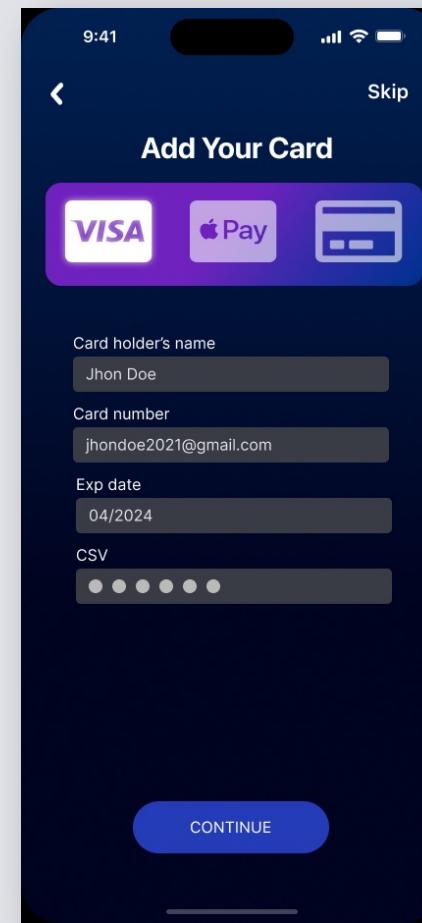
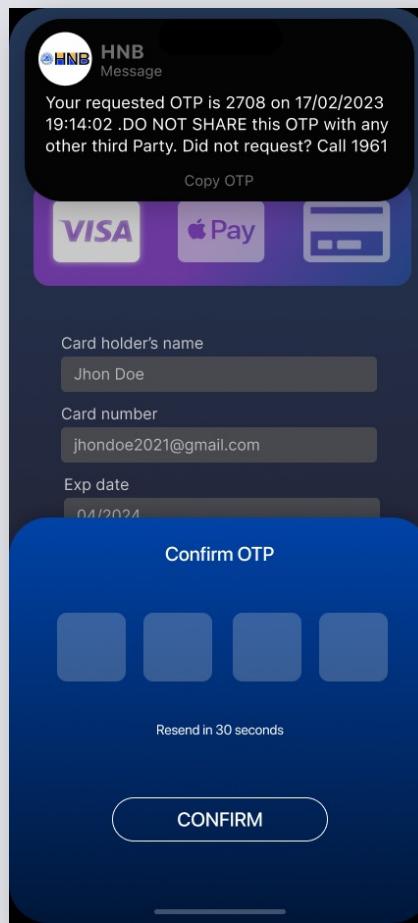
HIGH FIDELITY DESIGN

Bill payments



HIGH FIDELITY DESIGN

Bank details



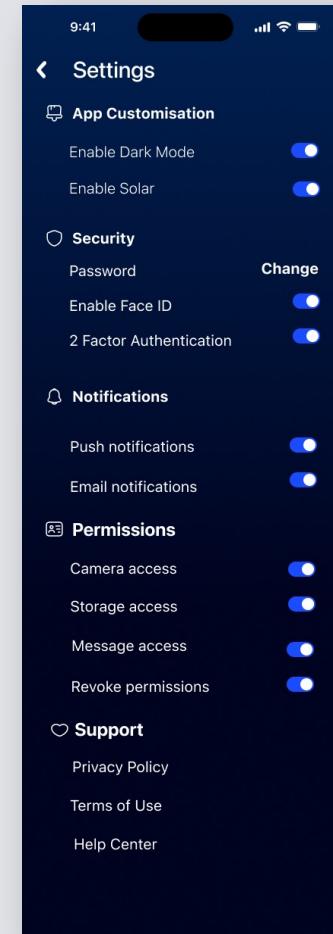
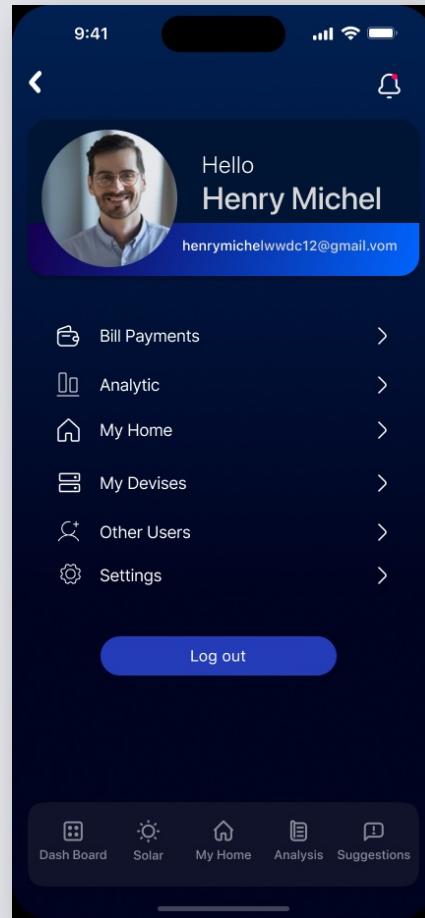
HIGH FIDELITY DESIGN

Solar



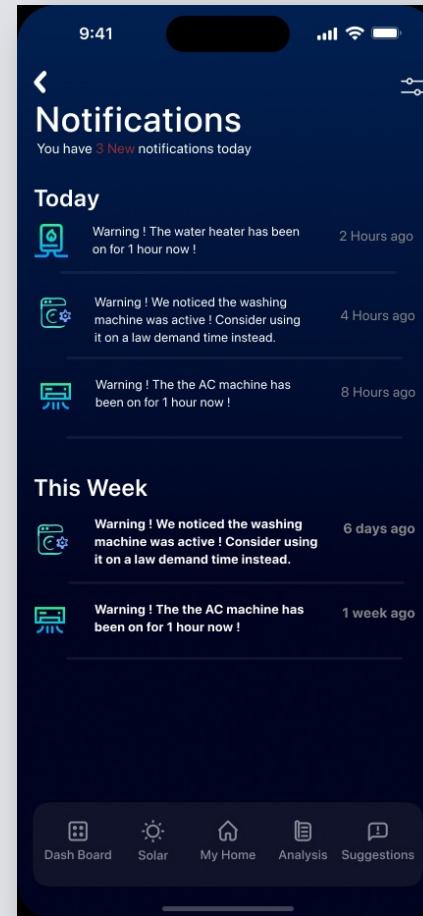
HIGH FIDELITY DESIGN

User and settings



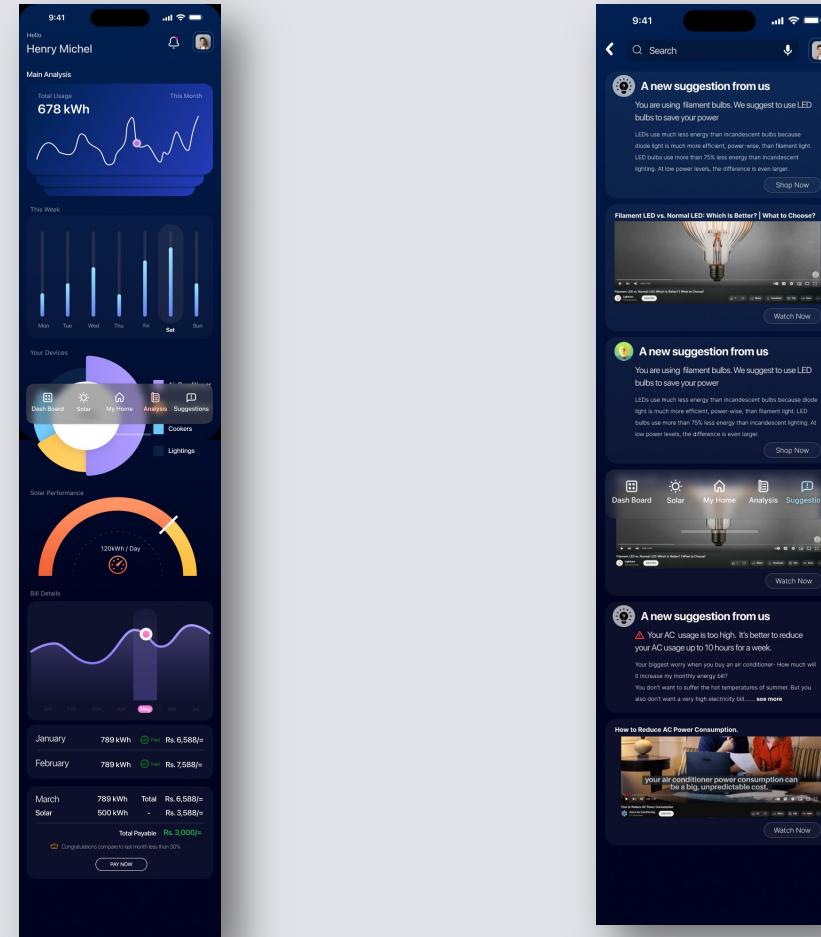
HIGH FIDELITY DESIGN

Notifications



HIGH FIDELITY DESIGN

Analysis and Suggestions





WHAT THIS PROJECT TAUGHT ME?

This project has been a valuable learning experience, enhancing my problem-solving and research skills as I delved into understanding user behaviors. The knowledge gained will undoubtedly prove beneficial for my future projects, equipping me with valuable insights and expertise in creating user-centric solutions.