

# Database Project: Explore Care System

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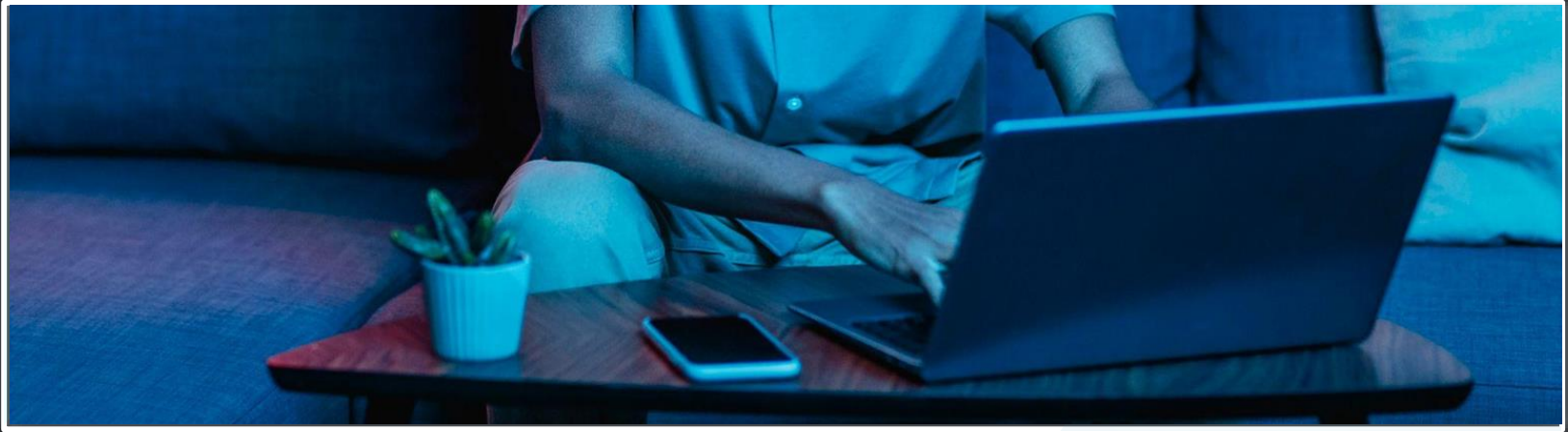
Presented by: Sharon Jepkosgei  
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By 2030

# 1 in 5 Americans

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65 years old and above (US Census Bureau)



Increased life expectancy



Increased healthcare needs



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High demand  
Raise prices  
Attract Suppliers

## PROBLEM

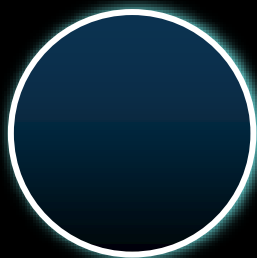


1. How does the government ensure its citizens have access to quality care?
2. How can long-term care facilities attract more clients and boost profitability?

## SOLUTION



Explore Care Project



# DATABASE PURPOSE

Build the Explore Care App

# DATABASE USERS

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Long-term  
Care  
Providers

Advertise services



Insurance  
Companies

Boost satisfaction of  
policy-holders



Healthcare  
Regulators

Check for sub  
standard services



Caregivers

Search for care that  
meet needs



Research

Used to identify  
trends in the sector



Gov Agencies

Like the VA

# SYSTEM ARCHITECTURE

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## DATA LAYER

Relational database using  
pgAdmin 4



## APPLICATION LAYER

Shiny App created using R  
and hosted on Github



## PRESENTATION LAYER

Web User Interface that  
allows access to database

# DATA REQUIREMENTS

01

## Provider information

Name, certification number, specialization

02

## Facility Information

Type, no. of beds, no. of workers, location

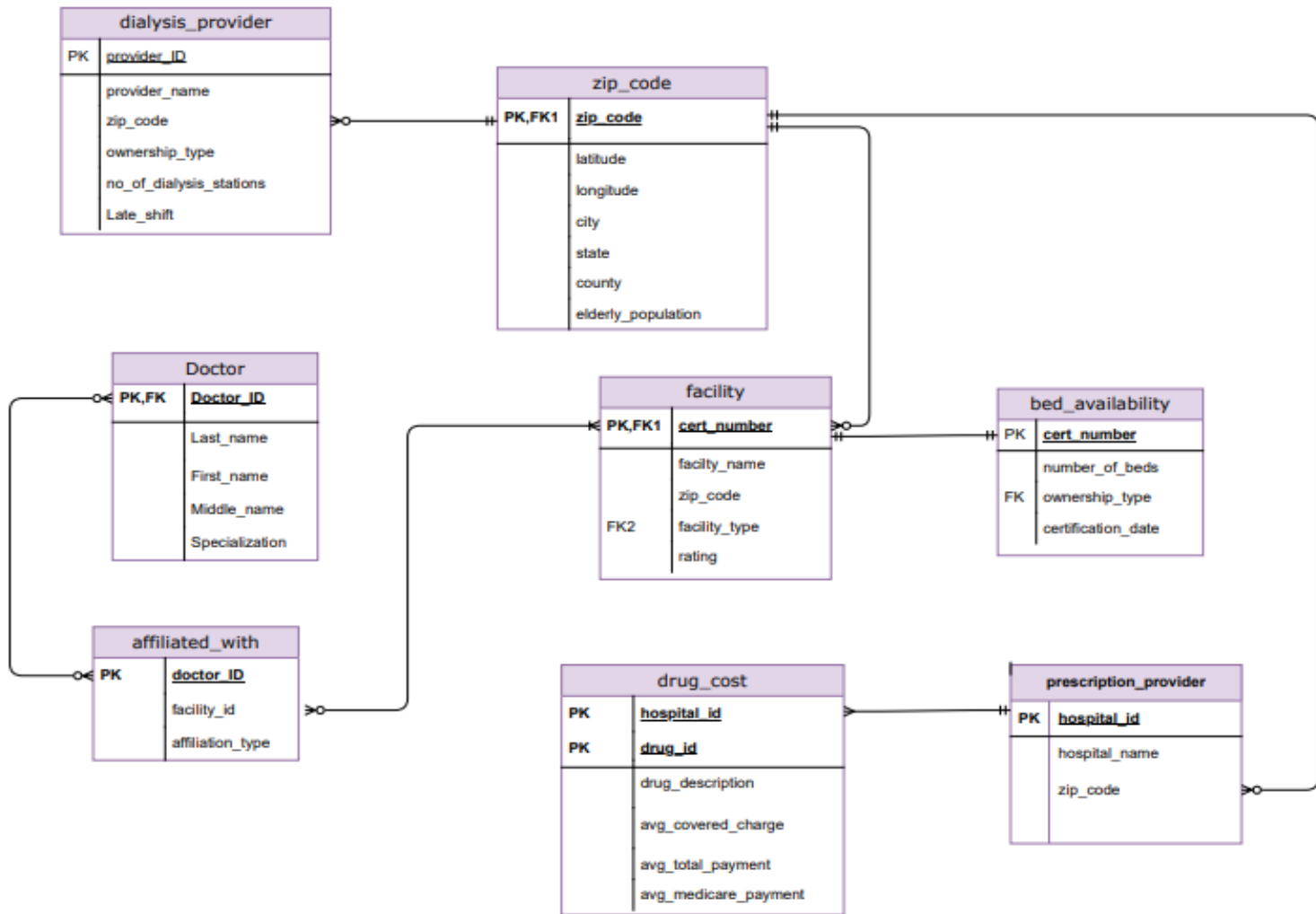
03

## Billing Information

Charges for drug prescriptions

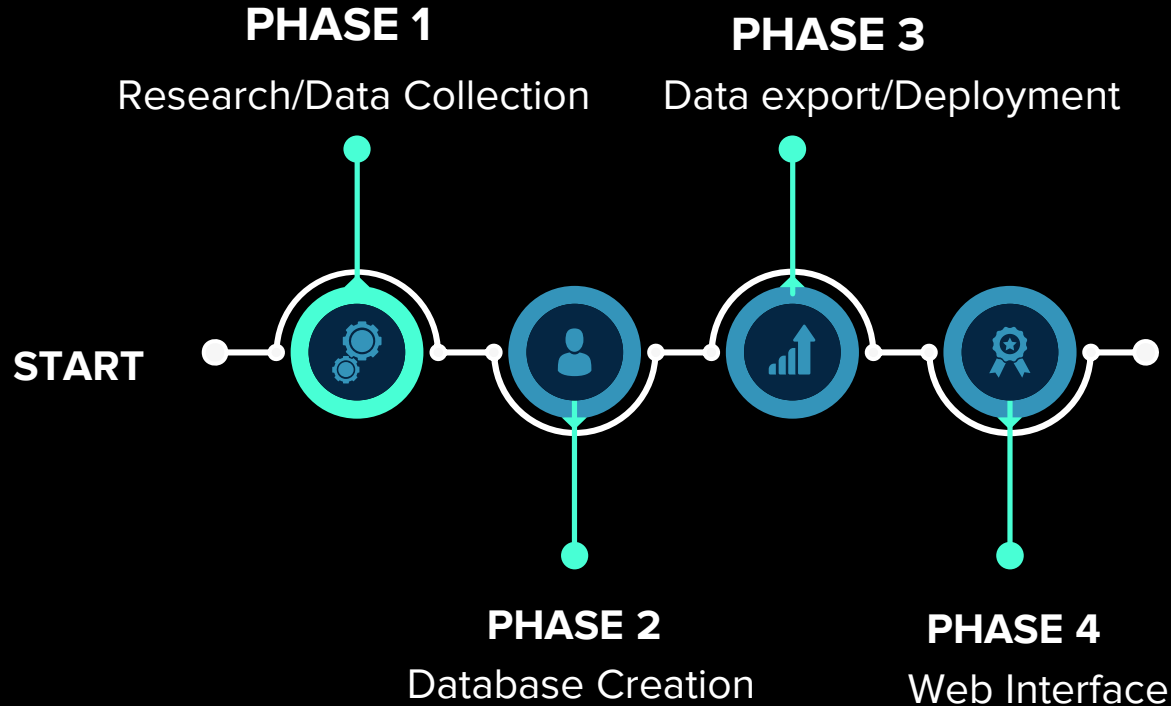


# DATABASE DESIGN: Schema Diagram



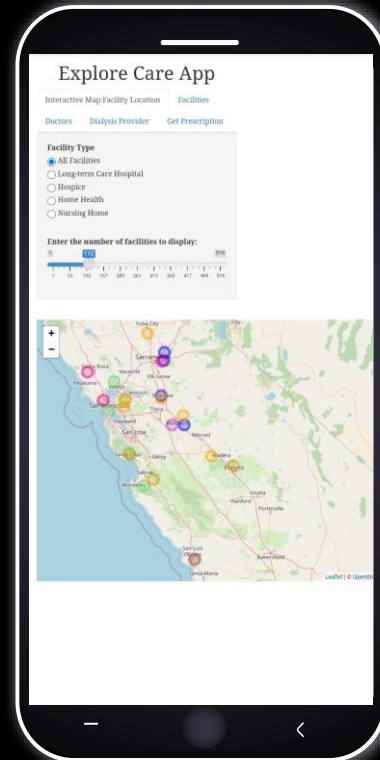
# IMPLEMENTATION

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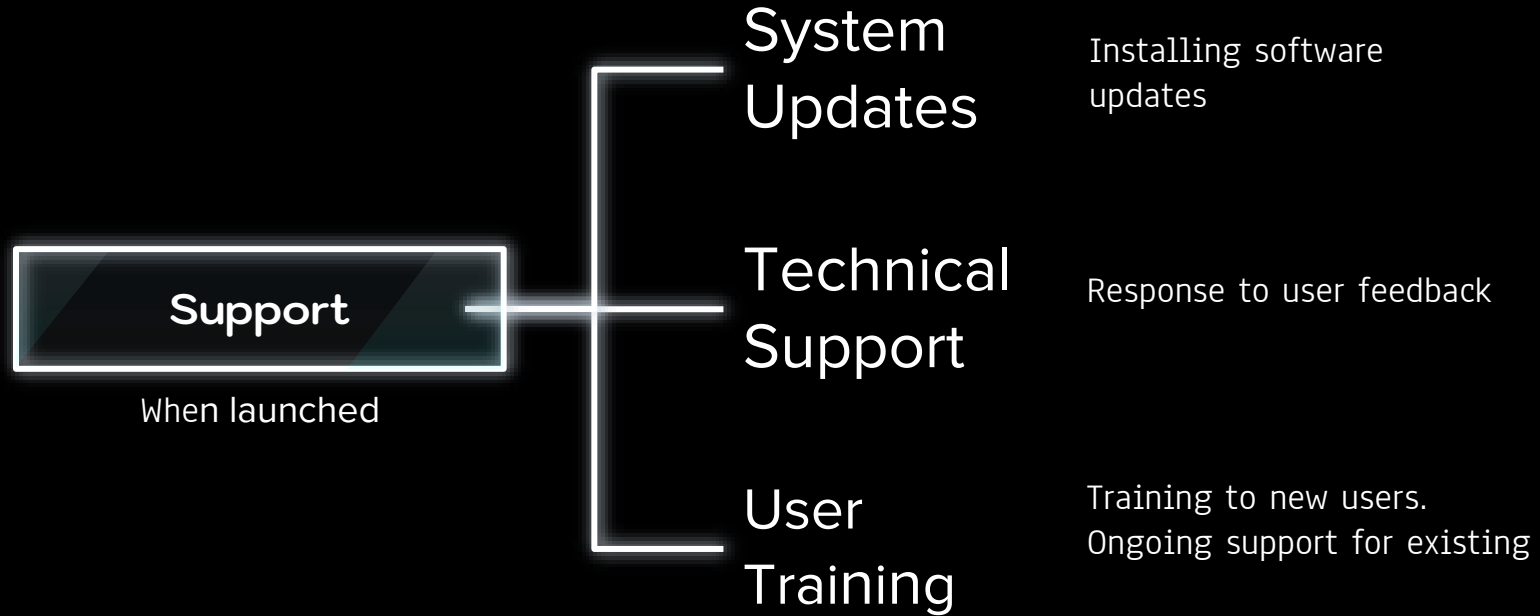
# The Explore Care App

<https://sharonjepkosgei.shinyapps.io/ExploreApp/>



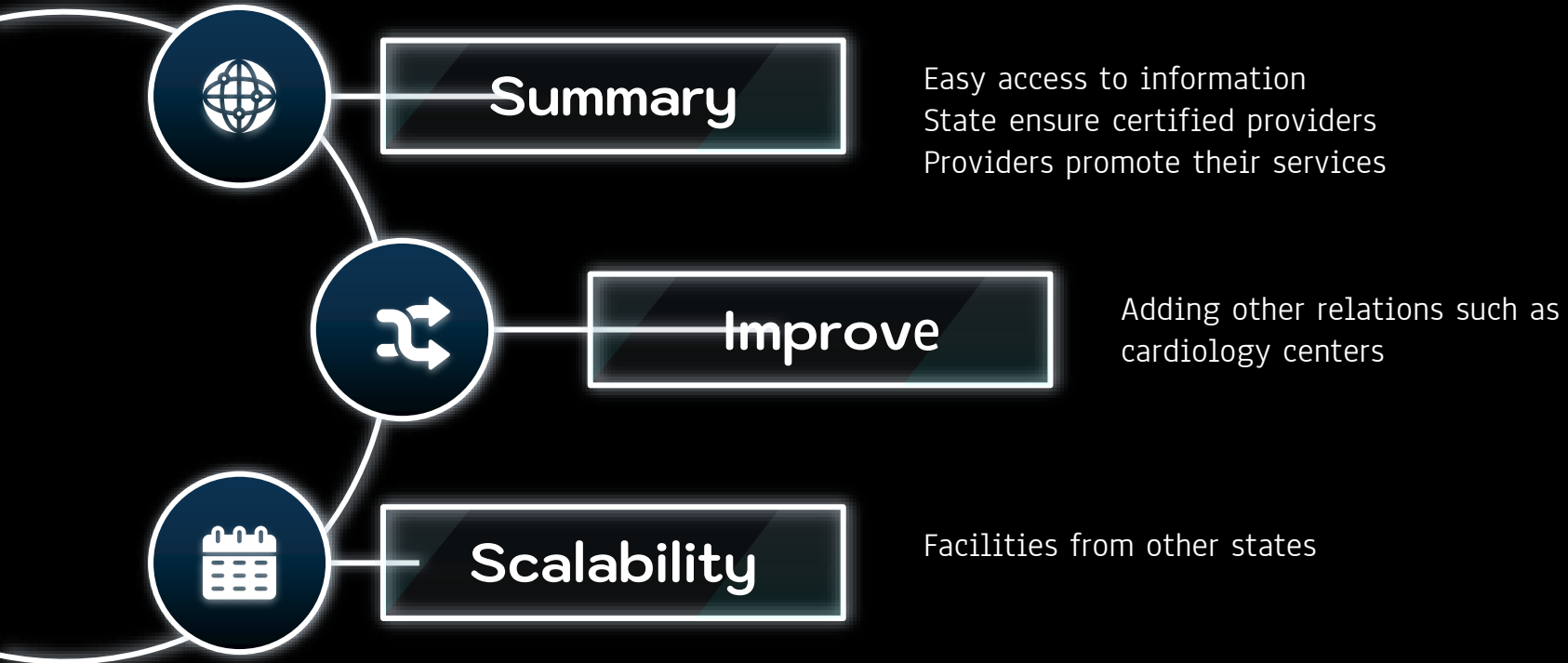
# Maintenance and Support

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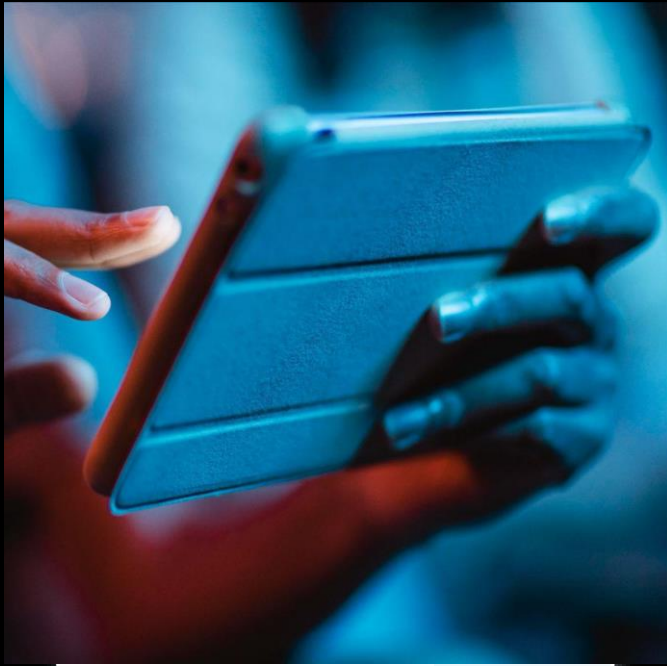


# Conclusion

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# LIST OF REFERENCES



- Rowlands, Chloe Lee. 2022. “An Aging State: How is California Preparing for the Shift to an Older Population?” Local News Matters, April 1. [localnewsmatters.org/2022/03/31/an-aging-state-how-is-california-preparing-for-the-shift-to-an-older-population/](https://localnewsmatters.org/2022/03/31/an-aging-state-how-is-california-preparing-for-the-shift-to-an-older-population/).
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- WHO. 2022. “Ageing and Health.” World Health Organization, October 1. [www.who.int/news-room/fact-sheets/detail/ageing-and-health#:~:text=By%202030%2C%201%20in%206,will%20double%20\(2.1%20billion\)](https://www.who.int/news-room/fact-sheets/detail/ageing-and-health#:~:text=By%202030%2C%201%20in%206,will%20double%20(2.1%20billion)).

# THANK YOU!

Do you have any  
questions?

