

# Final Proposal - Rezerve

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# Abstract

- Since the onset of the COVID-19 pandemic, customer oriented services like getting a haircut have been increasingly difficult
- Due to this fact a lot of barbershops and salons are facing significant drops in the number of customers they help and are at risk of going out of business
- In an effort to ease this problem, we are designing an application geared towards bridging the divide between customers and salons that was created during the COVID-19 pandemic
- *Rezerve* will provide many features such as:
  - The ability to find and research salons and barbershops around you
  - The ability to schedule and manage appointments with stylists
  - The ability for customers to interact with the stylist or other customers beforehand to feel more comfortable before sitting down in the chair
  - And more...

# Problem

- Due to COVID-19 business closed for indefinite amount of time.
  - Hard to stay open again since customers are slow to come back.
- Hair care is difficult since there is no way to safely social distance.
- Second issue is the first impression they stylists make on a customer.
  - A good haircut experience will often result in repeat customers.
- With this application, small hairstylist businesses should get the exposure they need to stay open.

# Objective

- Help customers find local barbershops and salons.
- Functionality for both businesses and and customers to get the most important information about the other quickly.
- Primary goal: Create a fluid application that allows potential customers to get in touch with barbershops and salons.



# Key Personnel

- Product Champion - Nathaniel Bekele
  - Senior Architecture and Graphic Design student
  - Has met with several different hairstylists and barbershops
  - Taking a managerial role in the project

# Related Work

- theCut, theBarbers' Post, Taper
- Clients can message each other
- “Check out as guest” feature
- Real life feedback from actual users

# Key Concepts

- React is a javascript library used for building UI
  - JavaScript, HTML, and CSS
- Firebase database management system from Google
- Stripe provides an API with secure payment services

# High Level Architecture

Backend (Firebase)

Firebase DB  
(Firestore)

Firebase  
Authentication

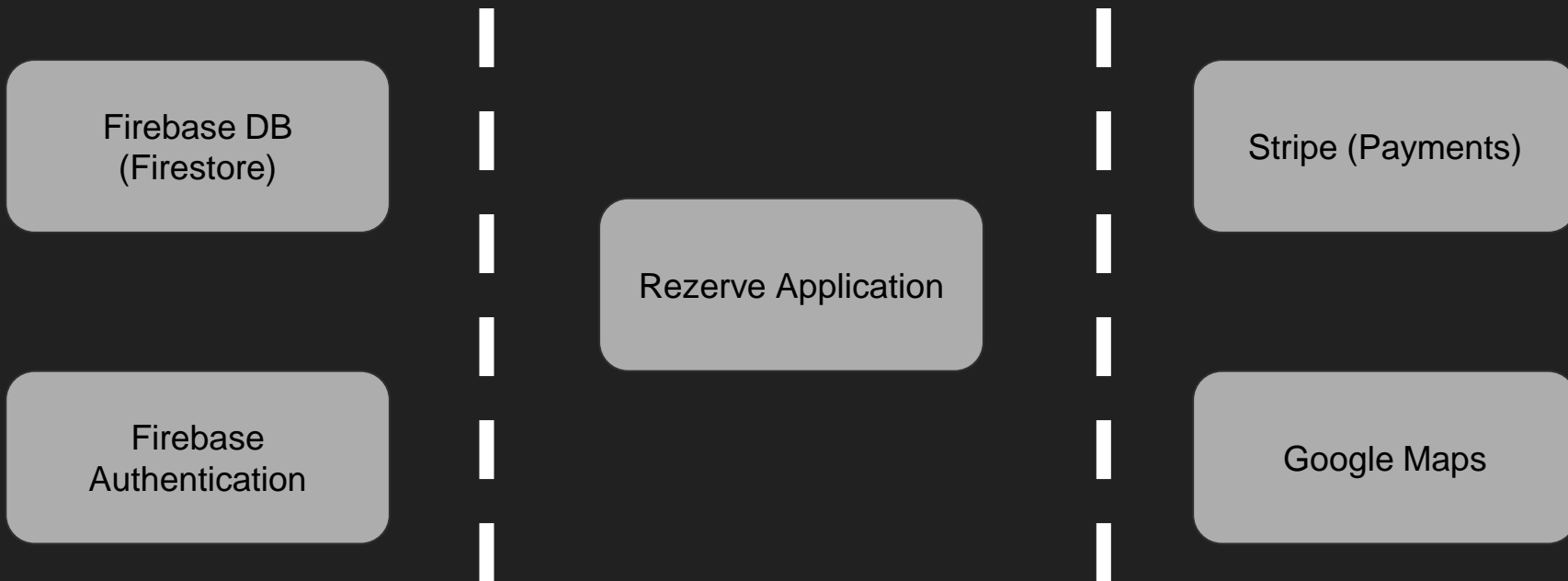
Application UI

Rezerve Application

Outside APIs

Stripe (Payments)

Google Maps

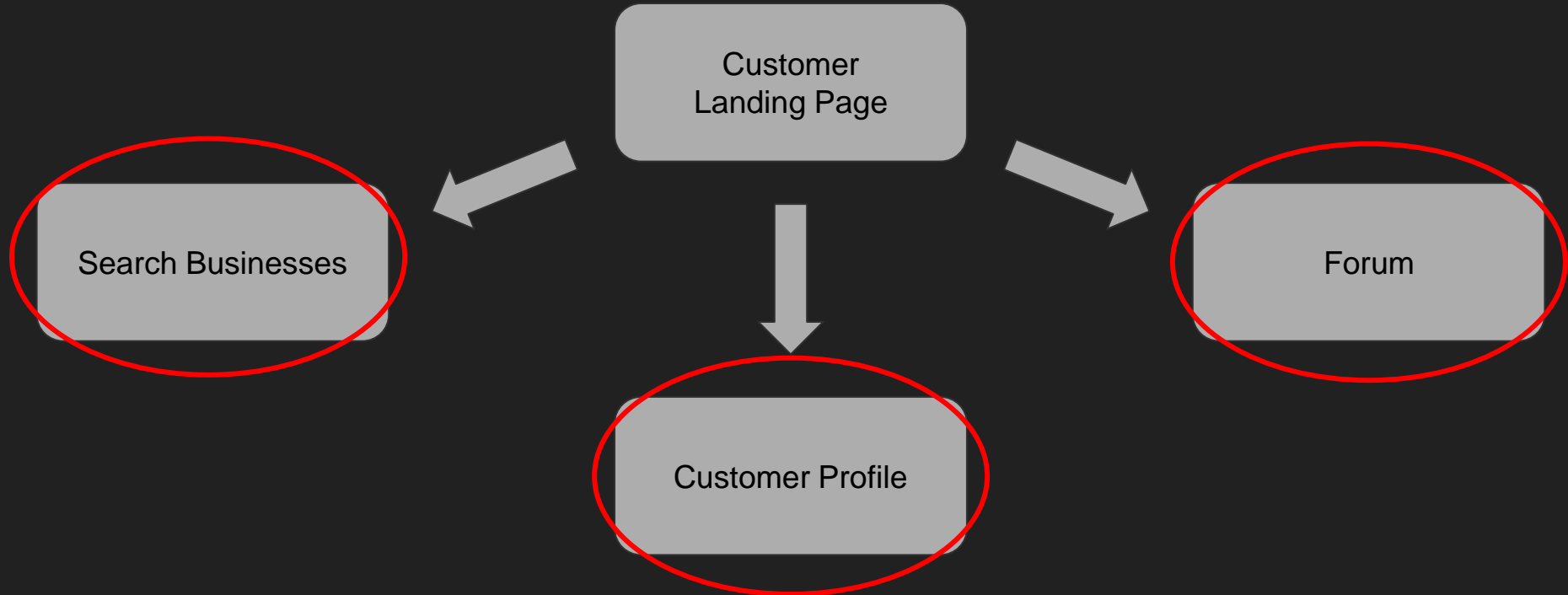




# High Level Architecture - Business Flow



# High Level Architecture - Customer Flow



# Tasks We Have Worked On

Research and Familiarize with React

Business Info Page

Create and Connect Firebase  
to React Project

Create Firestore Database

Payments Checkout Page

Nearby Business Page

# Tasks that we will work on

Shop Performance Page

Employee Accounts Page

Employee Services Page

Customer Service Page

Customer Rating and Review Page

Forum Page

Deploy the Application via Heroku

Continuous Testing

# Deliverables

## Software Framework Document

React: [HTML,CSS and JavaScript]

## Design Document

Overview

## API Document

APIs and Outside services

## Website Code

Created code

## Link to the Deployed Website

Implementation

## Final Report

Full description