Salauth

The Agnostic Facial Recognition Service

Fall 2022 Final Presentation

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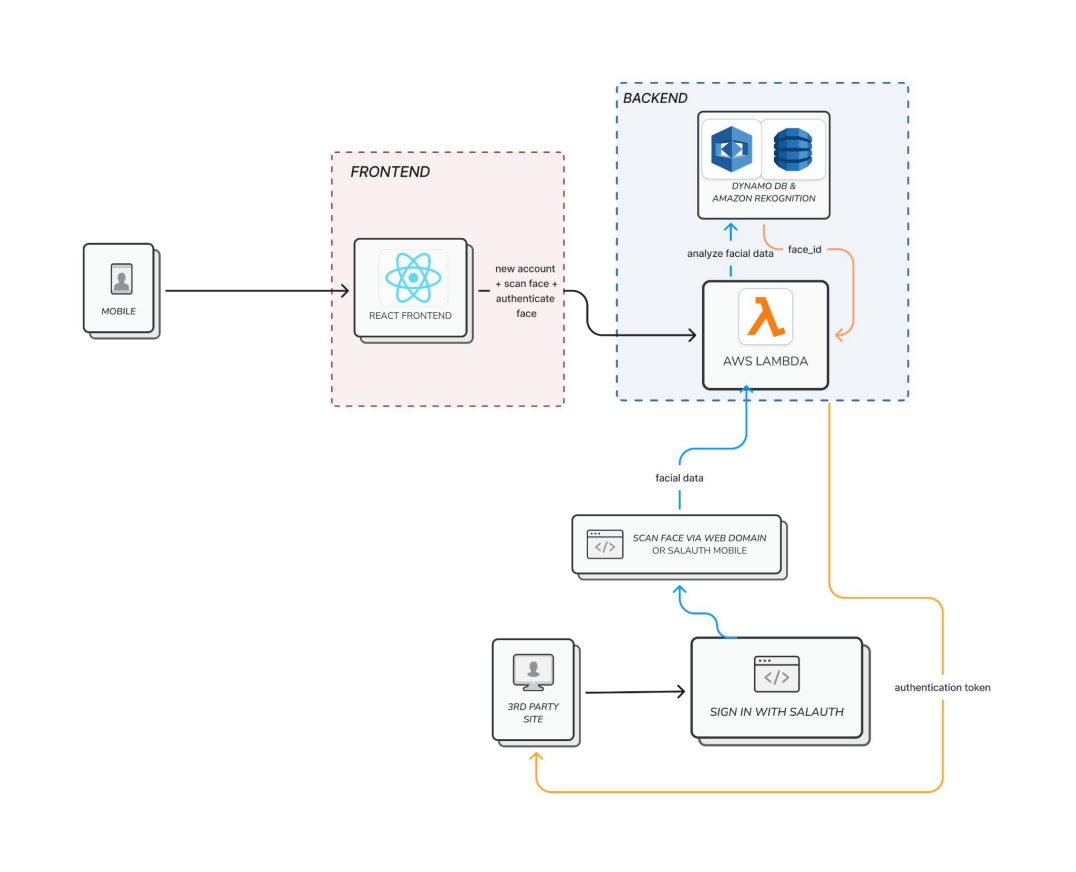
The Problem:

- User Authentication can be difficult, users often struggle to make passwords that are secure and memorable. A good amount of the population currently still implements bad practices when setting and resetting passwords (reusing passwords & making easily hackable passwords).
- There is currently no universal face authentication login service that spans across all operating systems and web browsers.
- Data Privacy is a huge concern among consumers all of the world, especially with passwords and other sensitive information.

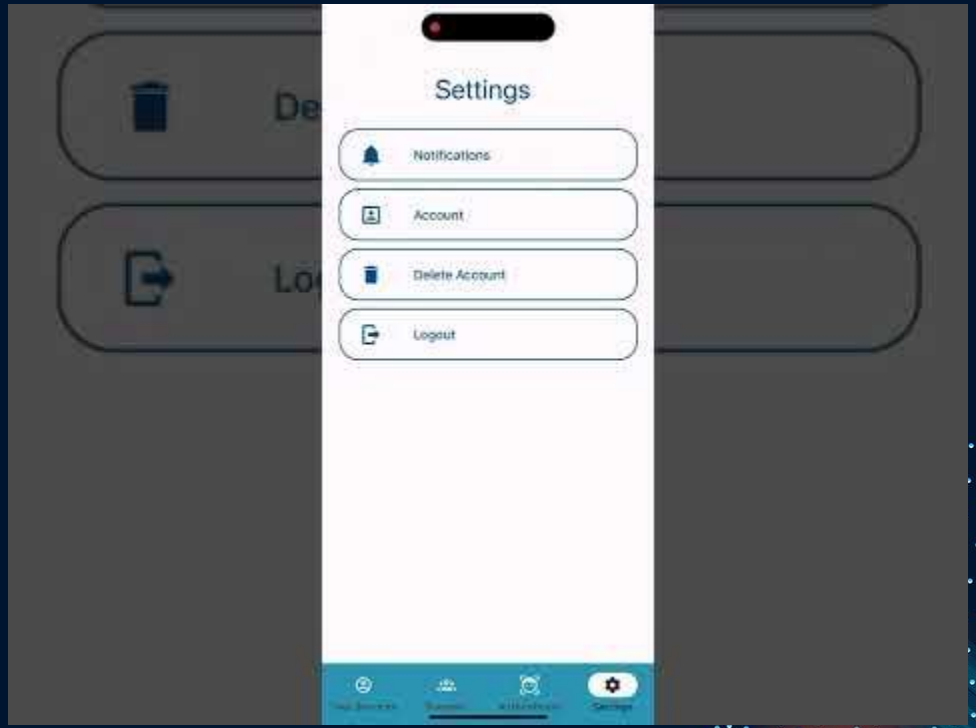
How we plan to solve the problem:

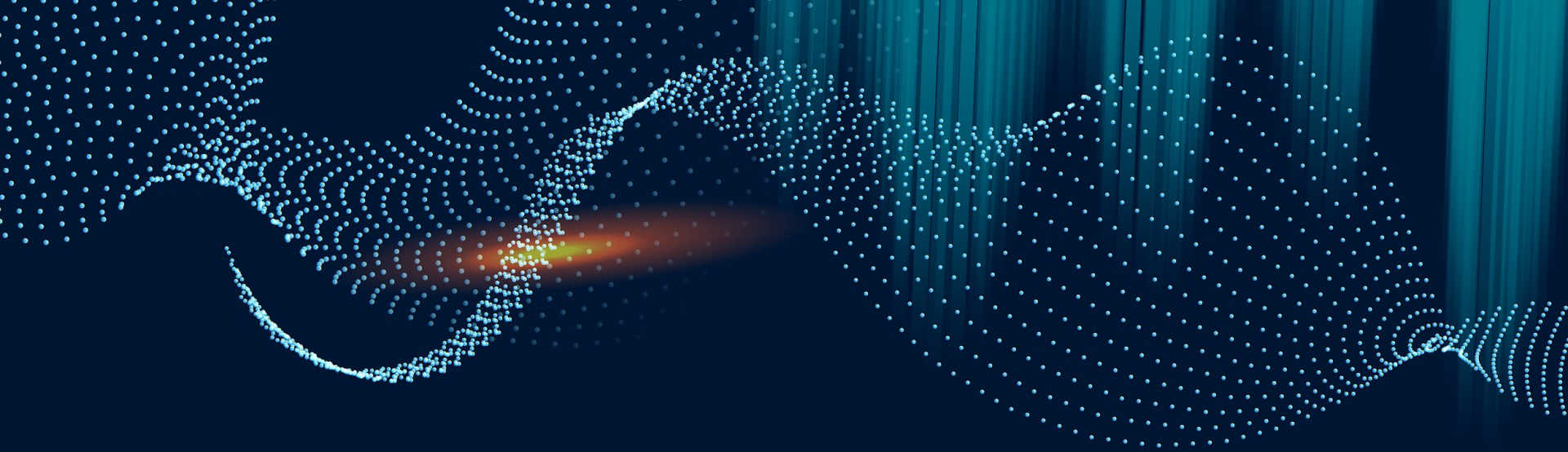
- Build a mobile application where a user can store their reference face scan and manage their connected services.
- Build a web interface and an API for potential adopters of our service to be able to implement ‘Sign in with Salauth’ to their websites and offer their users a more seamless sign in experience.
- Create an authentication process that secure and spoof proof, in which the user’s face scans are never vulnerable or stored for longer than they need to be.



How we have implemented the solution (so far):

Live Demo (frontend):





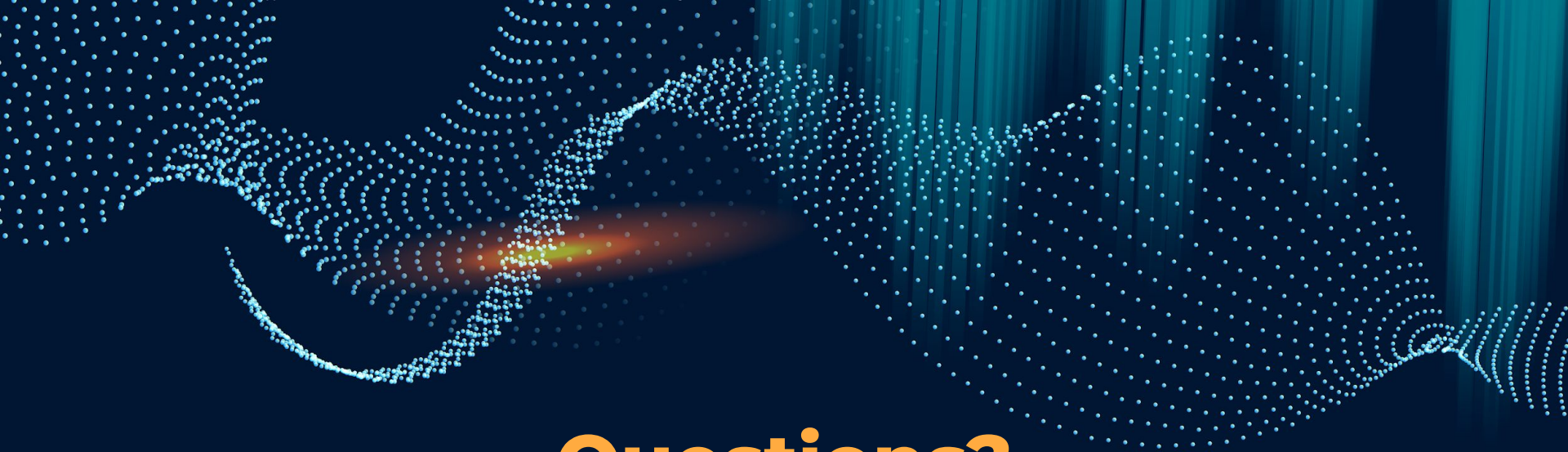
Live Demo (Backend)

Challenges:

- Trying to find a secure way to give our Partners access to our API without risking any of our User's data.
- User Communication: Determining reasons as to why a user's authentication is failing. (Doesn't exist, user needs to update their face scan, poor camera quality).
- Finding "users" for testing as our service isn't partnered with any popular platforms that the average person might use.

Plans for next Quarter:

- Implement a web redirect domain where users can use their PC camera to authenticate their login.
- Build out an API where our partners can import their user keys from our database for authentication use. API should also call upon our backend to handle the authentication part of the sign in process.
- Build out a group of simple websites with mock user databases to test our service on as a PoC.
- Implement more advanced features within the mobile experience.



Questions?

Special Thanks to our mentors Wade, David, Graham and Justin for their help throughout this quarter!

Live Demo Backup: