VCS APP W/ AMAZON ALEXA

Mobile application for rental hosts to get and post information about their properties and Amazon Alexa compatibility for guests.

INTRODUCTION

- Our team chose this project because we wanted to experience mobile development and how we can solve a real-world issue. Even though not everyone on our team has had experience developing a mobile application, we all had enough programming knowledge as a collective to successfully create this application.
- The issue that sparked the idea for this application is that there is no way for Airbnb hosts to relay information to their clients as there is no medium to do so. We undertook this project in hopes of providing a useful and efficient solution to this problem.
- The goal of this application was to provide a means of communicating important information to clients through an Amazon Alexa device and that information will be stored using the Virtual Concierge App. Our job was to handle storing video, photo, and audio files while providing a friendly and intuitive user experience throughout the whole application.

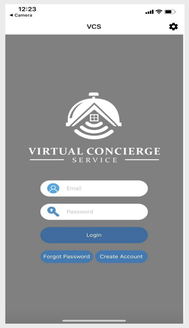

Figure 1: Login Screen

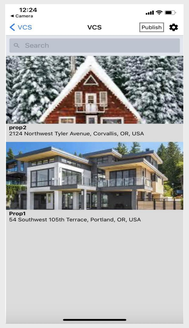

Figure 2: Properties Screen

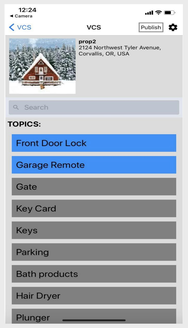

Figure 3: Triggers Screen

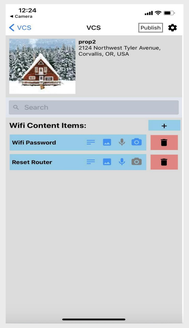

Figure 4: Sub-Trigger Screen

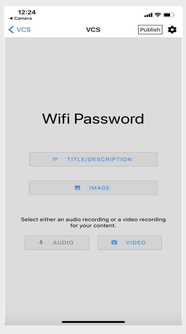

Figure 5: Upload Content Screen

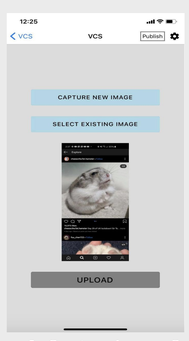

Figure 6: Capture Image Screen

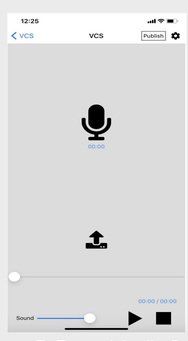

Figure 7: Record Audio Screen

IMPORTANCE

- The entire purpose of technology is to make our lives easier in some facet. In our case this is by making the process of communication and gathering information easier.
- Specifically we're helping those who use Airbnb's access important information more easily so rather than trying to find a hidden slip of paper with the wifi password on it or digging through emails or messaging your host you can simply ask Alexa for that information.

PROJECT DESCRIPTION

- What did we do?
  - We created a dual platform application that is meant to revolutionize the Airbnb experience for both hosts and clients.
- How did we do it?
  - We used React Native as our framework. With the support of the engineering team on VCS' side we were able to adopt and marry their APIs with our app, synchronizing their data and our mobile application.
- Why did we do it this way?
  - RN is an open source, well documented framework, it allowed for us to more easily learn and leverage it's basic concepts.
  - RN is perfect for building native applications in both iOS and Android at the same time.

ACKNOWLEDGEMENTS

- **Team members (left to right of picture):**
  - Daniel Safarov -> Computer Science - Bioinformatics
    - safarovd@oregonstate.edu
  - Andy Trinh -> Computer Science - Systems
    - trinha@oregonstate.edu
  - Aaron Didner -> Computer Science - Mobile/Web/Security
    - didnera@oregonstate.edu
  - Jason Yue -> Computer Science - Systems
    - yuej@oregonstate.edu
- **Client members:**
  - Dana Young -> Founder of Virtual Concierge Service Inc.
    - dana@virtualconciergeservice.com
  - David Nguyen -> Engineer at Virtual Concierge Service Inc.
    - david@virtualconciergeservice.com

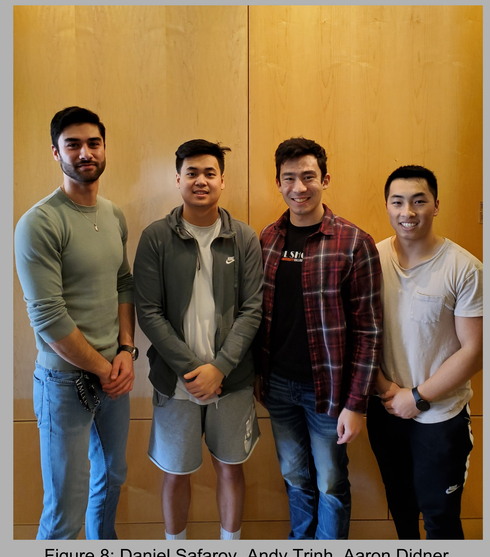

Figure 8: Daniel Safarov, Andy Trinh, Aaron Didner, Jason Yue (left to right)

Oregon State University