# SLUGDEX

**Team Name:** 

**The Slug Surveyors** 

#### **Team Members:**

Kyle Lim - Product Owner Troy Schultz Jonathan Aguirre Bayley Barreuther

## **The Problem**

#### What

Places to hangout / see beautiful sights / have new experiences are spread only by word-of-mouth

## Why

Share, enjoy and preserve a piece of the folklore of UCSC

#### Who

Us!- Prospective and Current UCSC Students, Faculty and Family



## **Our Goals**

- 1. Guide users to discover locations around campus 🗸
- 2. Allow users to view information about locations, based on if found 🗸
- 3. Show user progress and leaderboards to incentivize exploration 🗸
- 4. Update and add locations from a database 🗸
- 5. Store user profile and statistics in a database 🗸



## **Our Tech Stack**

## **Flutter (Front-End)**

Cross-platform

Simplistic Development

## Firebase (Back-End)

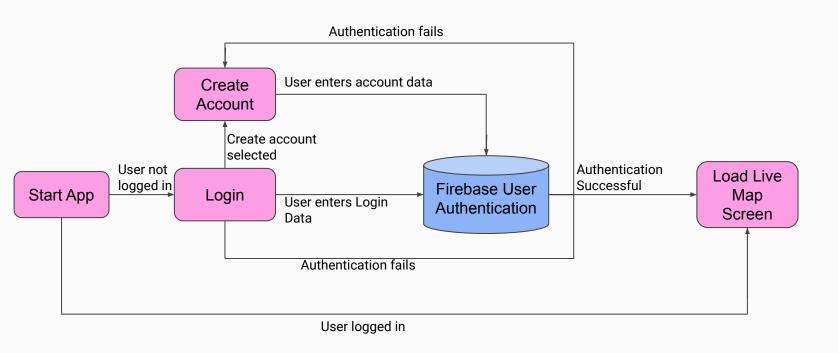
Authentication

Cloud Firestore (User and entry data)

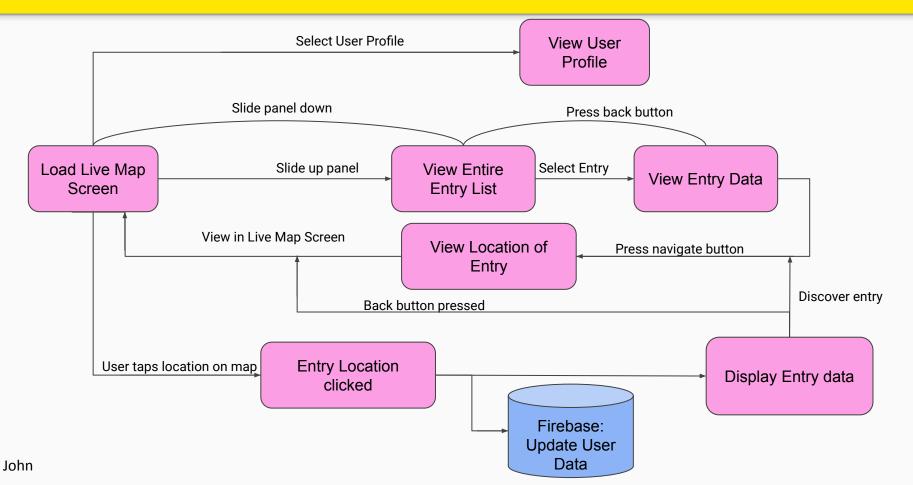
Storage (User images)



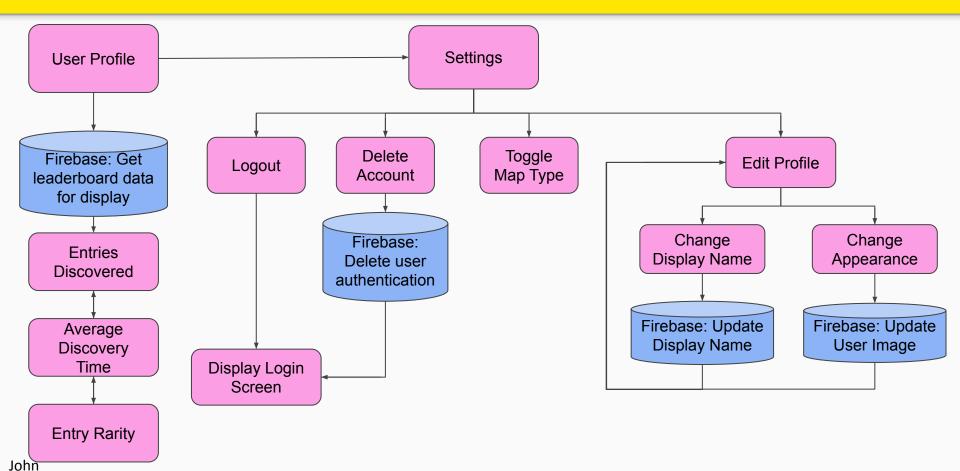
# **System Diagram Overview (1)**



# **System Diagram Overview (2)**



# **System Diagram Overview (3)**



## Demo





# **Project Management**

#### Scrum Techniques Used

- Assigned Scrum Roles: Scrum Master, Product Owner, Developer
- 3 Weekly Scrum Meetings (In person and remote without issue)
- Trello Scrum Boards for flexible work management
- Well Organized Discord channel for consistent communication
- Agreed upon coding standard & interface driven app development pattern
- Github Version Control following best practices for small teams
- Culture of accountability and pride in code ownership

#### **Derivations From Scrum Techniques**

 Face to Face codebase merging had developers involved for conflict free continuous integration of new features



# **Challenges**

**Time Management** 

**Learning New Technology** 

Front End Development / User Experience

iOS and Android Specific Bugs

**Managing a Large Codebase** 



# Retrospective

### What We Liked

- Learning new technology (Flutter/Firebase)
- Learning the agile development techniques
- Being able to deliver working software frequently
- Being able to be proud of something that we produced
- Working with motivated individuals

## What We Didn't Like

- While necessary, the amount of documentation
- Having to implement testing late in the development process



## Retrospective

#### What To Keep Doing

- Maintaining constant communication
- Code collaboration
- Doing large merges together

#### What To Stop Doing

- Overly ambitious sprint plans
- Working in short bursts of time
- Inconsistent meeting times

## What To Start Doing (In The Future)

- Automated unit tests from the start of development
- Allow for beta testers immediately after reaching MVP



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**Thanks!**