

COSC 3370 Software Engineering

cSpace

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The Powdered Waffles

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Presentation Outline

- Project Vision
- Project Planning
- Project Requirements
- Product Design
- Project Implementation
- Product Testing
- Lessons Learned
- Product Launch / Demonstration
- Questions

Project Vision

- A transparent, safe, user-paced dating app for college students.
- Stakeholders
 - Software Development Team
 - Advertisers
 - Users
- Users - College Students
- Strengths
 - Unique filtered search design
 - Safety features
- One-of-a-kind dating app experience

Project Planning

- Communications and teamwork
 - Discord
 - Face-to-face meetings as needed
- Our software development process during the project particular software development process was Agile.
 - Each deliverable was produced in a series of sprints
 - Weekly submission schedule
- The most important risk in the project was learning a new programming framework used for developing cross platform applications.
 - React Native Expo
 - Firebase

Project Requirements

➤ Main use cases

- Log In
- Search for Matches
- Chat with Other Users
- Create / Edit User Profile

➤ Main requirements

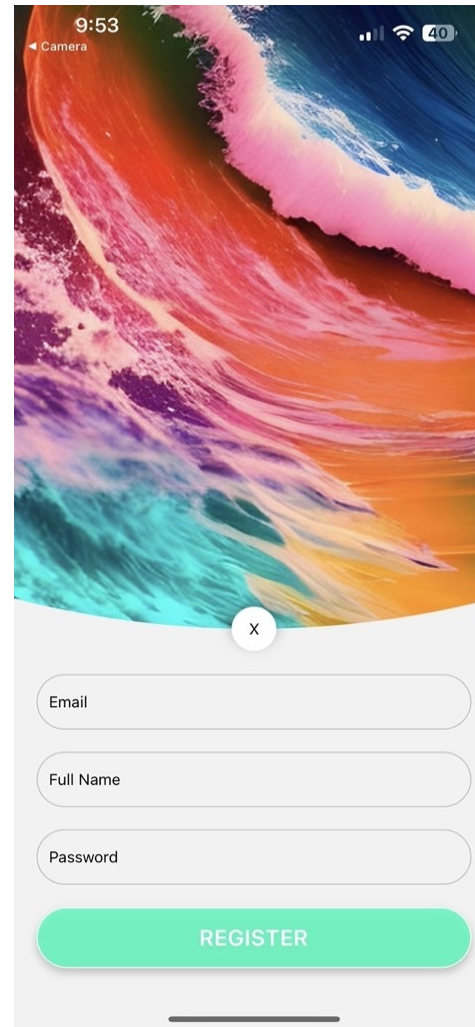
- The system shall allow users to log into the system.
- The system shall provide a user profile creation screen.
- The system shall provide an instant messaging system.
- The system shall require Android version 4.1 or later.
- The system shall require iOS version 11.0.
- The system shall have a simple, aesthetic user interface.
- The system shall have high performance.

Product Design

- Main Design Decisions
 - Profile Viewing Screen
 - Ensuring a minimalistic UI
 - Using a Firebase database
- Main Design Constraints
 - No random user/match selection
 - Mobile Responsiveness
 - Security for user information

Product Design

- Software Design
 - Login / Registration Page
 - Profile Viewing Page
 - Settings Page
 - Message Threads Page
 - One-to-One Message Page
- User Interface Design



Project Implementation

- Approach
 - React Native
 - Firebase Database
- Teamwork
 - Discord
 - GitHub

Product Testing

- Main Test Cases
 - User Login Test
 - Profile Creation Test
 - Instant Message Test
 - Notifications Prompt Test
- Test Duration
 - Short bursts of time for each feature
- Challenges
 - Errors in code due to learning curve with React Native and Firebase
 - Time constraints
- Success
 - Building navigation routes for application
 - Learning about cross-platform development techniques

Lessons Learned

- Most challenging aspect
 - Implementation
- Motivating
 - Working toward a functional product
 - Improving documentation skills
- Demotivating
 - Database issues
 - Scope issues
- Successes
 - Innovative idea
- Necessary Improvements
 - Time management
 - Communication

Product Features

➤ Default Start Page



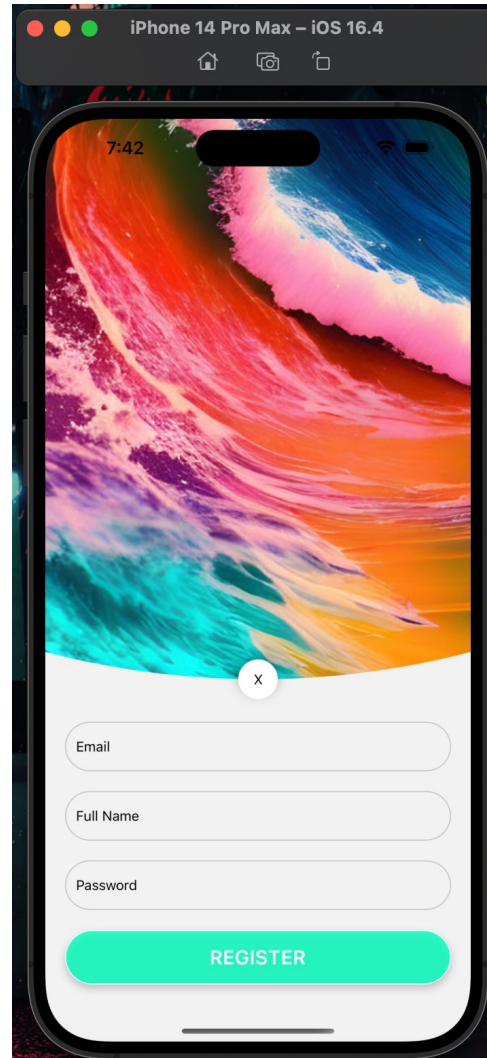
Product Features

➤ Login Page



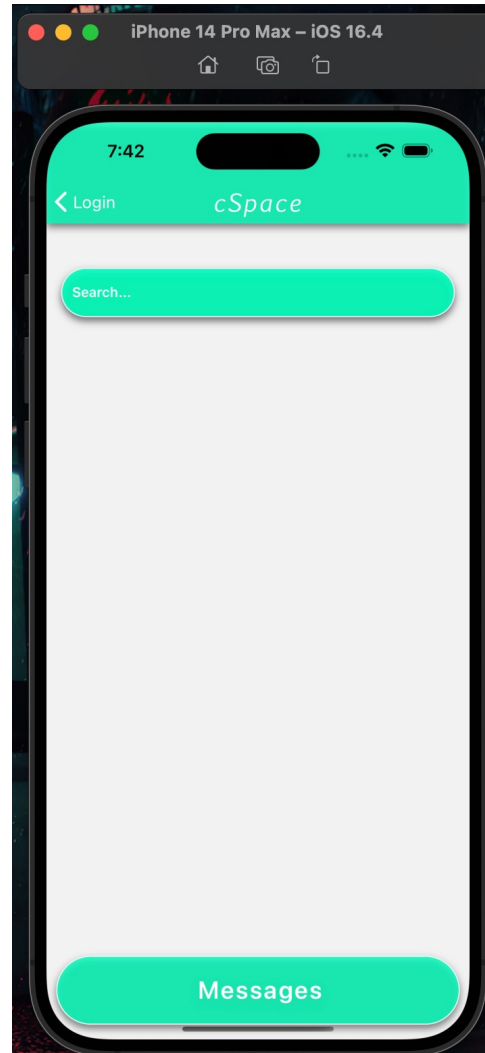
Product Features

➤ Register Page



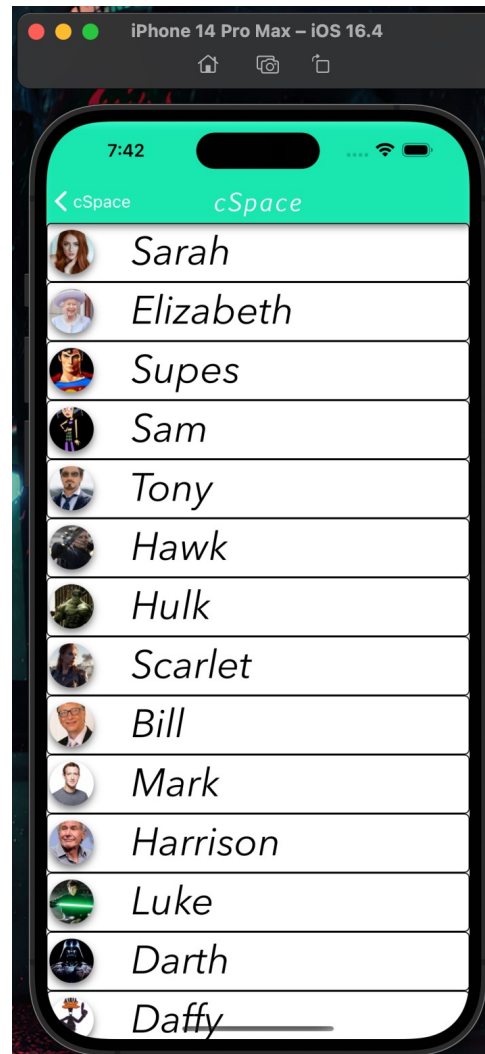
Product Features

➤ Search Page



Product Features

➤ Messages Page



Product Launch

- We will now demonstrate cSpace!