WuShockGo
CS 598 SD 1 Technical Presentation
Fall 2021

Teaming up with ....

Project Sponsor: Tabor College Team
The app is being developed for students at Tabor College.

Prototype, orientation video, and Teams links

Prototype link:

https://www.figma.com/proto/0GedKodA7bwJNc9G1da9CG/PROTOTYPE-FOR-MOBILE-APP-TABOR?page-id=122%3A400&node-id=122%3A401&viewport=241%2C48%2C0.11&scaling=min-zoom&starting-point-node-id=122%3A401&show-proto-sidebar=1

Orientation video link:

https://youtu.be/SKfbZl1irig

Teams link:

https://teams.microsoft.com/l/meetup-join/19%3ameeting_YzYwZDZkOTQtOGI0NC00YmViLTk0M2QtYjlmODNkYWEyZjA2%40thread.v2/0?context=%7b%22Tid%22%3a%22e05b6b3f-1980-4b24-8637-580771f44dee%22%2c%22Oid%22%3a%220ee14ecb-8cb8-4702-a908-c3630518addc%22%7d

Team members and Roles

- Tech Lead/Full-stack: Fitri Rozi (CS)
- Team Lead/Back-end: Karishma Bhakta (CS)
- Front-end (UI / UX Design): Tan Tran (CS)
- Front-end: Dan Khuu (CS)
- Back-end: Sriram Srinivasan (CS)
  - Teams link:
  https://teams.microsoft.com/l/meetup-join/19%3ameeting_YzYwZDZkOTQtOGI0NC00YmViLT
  k0M2QtYjlmODNkYWEyZjA2%40thread.v2/0?context=%7b%22Tid%22%3a%22e05b6b3f-1980-
  4b24-8637-580771f44dee%22%2c%22Oid%22%3a%220ee14ecb-8cb8-4702-a908-c3630518ad
  dc%22%7d

Frontend - Dan

- Why use React Native instead of Swift, Kotlin, Java, etc.?
    - Movable
        - Export to Xcode or Android Studio
    - Performance
    - Faster and Cheaper
        - Same Dev method & Re-used code
    - One Language JavaScripts
        - Render to native platform UI
    - Works under tight budget constraints
    - Offers cross-platform mobile app development
        - One team can maintain two platforms and share common technology
    - Fast development
        - No need for Swift or Kotlin Developer

Backend - Karishma

- Why use Firebase instead of other backend technologies?
    - Ease of use & simplicity for both development team and sponsors
    - Firebase automatically updates the data in real-time
    - Cloud functions for web-scraping
    - Database is provided by Firebase and server work done by Firebase as well

- What languages are we using and why?
    - JavaScript with ReactNative- efficient for coding across platforms without sacrificing user experience
    - One programming language for front-end and back-end
    - Easier to integrate

Backend - Sriram

- Work done so far?
    - Block diagrams
    - Schemas in JSON format
    - Authenticating Firebase and creating dummy data to illustrate prototype

- Work to be done in future?
    - Web scraping from Tabor College since they don't have API's
    - Login page: faculty and non-faculty
    - To become faculty, Firebase Authentication would add in manually

Design - Tan

- Mockup
  - Provide a sample
  - Get feedback
    - improvement
- Simplistic
  - Simple navigation
    - Filters and sorting/search
  - User knows how to to use it.
- Functionality
  - User ability to navigate
  - Focus - Important element for an app to have.
- Personalization
  - Relevant user experience = best user experience
    - Questions/Goals of App
  - What their interests/needs

Fullstack - Fitri

- Integrate Firebase with React Native
- Use cloud functions to run a web scraper that collects information from Tabor College website
    - The information will then be stored in Firestore
    - Will be done autonomously
- The mobile app will fetch the information from Firebase and have it be populated onto the appropriate mobile screens
- Frontend testing can be done using Expo Client
- Once the app is ready for production, Firebase will handle the hosting. Eventually, we will put it into Google Play Store and App Store.