CSC780 - Application Development for Mobile Devices, Spring 2022 Final Project Proposal by Jasmine Jahan, SFSU ID 920115557

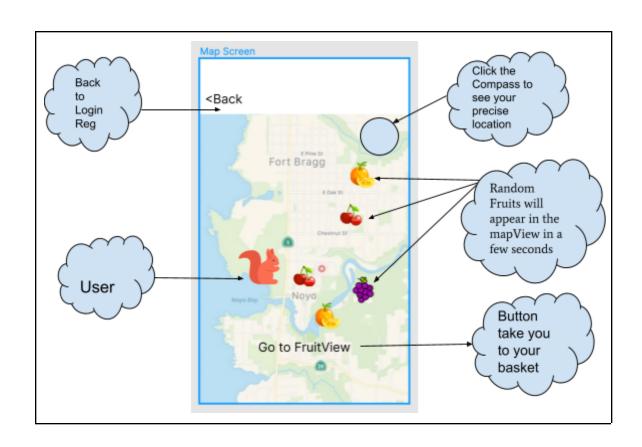
Project Name: CherryPick (An iOS Application)

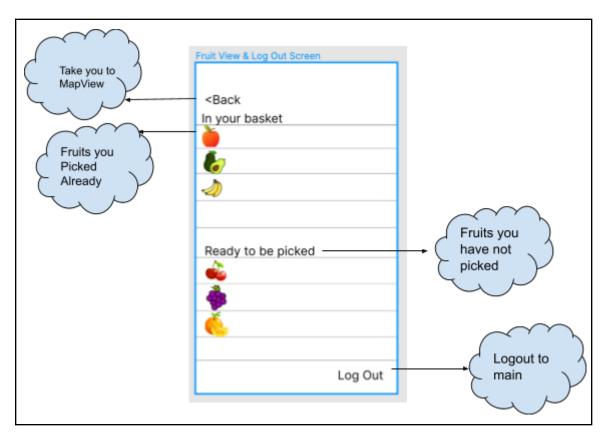
• Executive Summary:

The mobile application 'CherryPick' has been developed with GPS direction where users can play a fruit picking game using location from anywhere in the world. Users will be able to have more fun playing the game while visiting various places.

• Basic wire-frames for Functional Features (Prototyping in Figma):







• Functional Features(Must have)

- 1. Users shall be able to LogIn, Register & Logout for the mobile application.
- 2. Registration & Login shall include emailId and password fields.
- 3. Users shall receive alerts pop up about the invalid emailId & password length.
- 4. Users shall be able to view real-time Map directions and trace their location.
- 5. Users shall be able to pick fruits at a specific/nearby distance.
- 6. Users shall be able to switch between screens via the back button.
- 7. Users shall be able to see a list of fruit items including both picked and unpicked.
- 8. Users shall be able to turn on the location only when playing the game.
- 9. Google analytics shall be used.
- 10. Firebase Authentication shall be used in Login, and Registration process.

• Non Functional Features(Nice to have)

- 1. Multiple players shall be competing.
- 2. The language used shall be localized.

• High-level system architecture and Technology stack:

Operating System: macOS Monterey 12.3.1	Language: Swift
Mapping Technology: Apple Maps	UI Frameworks: UIKit
Architecture Pattern: MVC	Framework: CoreData
Testing/Debugging: iOS Simulator	IDE: Xcode
Version Control System: Github	Backend: Firebase
Dependency Management: CocoaPods	
pod 'FirebaseAnalytics', pod 'FirebaseAuth'	

Resources credit :

- 1. https://firebase.google.com/docs/ios/setup
- 2. https://github.com/firebase/quickstart-ios/blob/3daa18206fb9438a2e5ee
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- 3. https://www.youtube.com/watch?v=LE-wTJbMugA&list=WL&index=19
- 4. https://www.udemy.com/course/ios-12-developer-course/
- 5. https://www.youtube.com/watch?v=l-85 8hPhbg
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- 7. https://www.youtube.com/watch?v=f6xN2MuHv1s
- 8. https://stackoverflow.com/questions/37943616/firebase-sign-out-not-wo rking-in-swift
- 9. https://stackoverflow.com/questions/54966240/createnewuser-firebase-method-is-returning-nil-in-the-closure-for-user-uid
- 10. https://stackoverflow.com/questions/67119084/how-do-i-fix-cannot-find-firebaseapp-in-scope
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