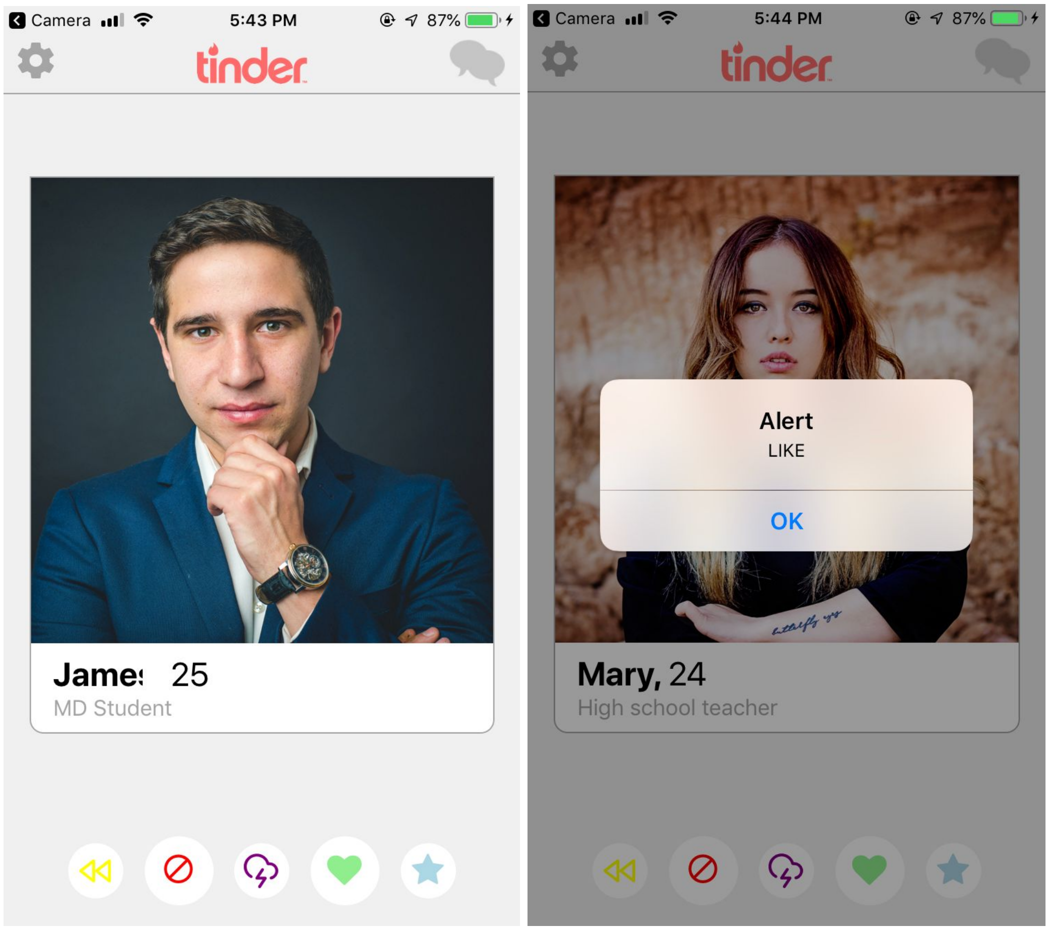
Assignment 4: Tinder 2.0

Due Monday, October 29th, at 11:59 PM.

Overview

For this assignment you will be building upon the first Tinder assignment. Rather than focusing on UI, you will be focusing on implementing animations, 3rd party components, and vector icons. The user should be able to swipe right (Like), swipe left (Dislike), and swipe up (Superlike) on a Tinder profile, and should have a new profile appear afterwards, much like the real Tinder. However, you think some of the functionality of the old Tinder is wack, and want to implement some of your own ideas. **You think that the main view holding the profile is lame, and should be a 3rd party component, and that the action buttons shouldn't be images, but distinct vector icons.** So, you will be replacing the main view with a 3rd party component, the action buttons with vector icons, and implementing the swipe functionality of Tinder. After a swipe, you will use an alert to let the user know which direction that they swiped.

your final product will look something like this:



Jame: 25
MD Student

Alert
LIKE

Mary, 24
High school teacher

Implementation Details

Here are some additional details that will help with planning.

1. **Generating Random Profiles**

   This was an extension in the first Tinder Assignment, but it is a requirement for this assignment. There should be a function randomProfile that when called generates a random profile. It should be in your App.js file, and passed in as a prop. It should be called when clicking an icon, or with swiping Right, Left, or Up.

2. **3rd Party Component for the Main View**

   Rather than having a view for the Main View Component, we want you to use a third party component. You can use a card component or something else, from like Nativebase or React Native Elements, or any third party component you see fit. It should still contain all of the information (name, age, occupation, image) that is within the main view. **When you npm install it, make sure that you --save**. Points will be deducted if we receive an error upon npm install.

3. **Animations**

   The main functionality of Tinder is being able to swipe right, left, or up. You should use wrap the component in an Animated View, and utilize the animation functions learned in class to implement this functionality. **Swiping Right should trigger this sequence: the old profile component should disappear, an alert that says “Like” should appear, and then the new profile should appear in the center of the screen**. You might have to play with timing to make sure that the new profile “appears” in the middle of the screen, and doesn’t animate towards the center of the screen. Swiping Left (Dislike) and Swiping Up (SuperLike) should trigger a very similar sequence. The alerts will just say “Dislike” and “SuperLike” accordingly.

   Summary:

   <u>Order of Operations</u>

   Swipe -> Profile Disappears -> Alert -> New Profile Appears in Center of Screen

   Tips: For implementing Swipe, it is very important to know that you can keep track of the location of the component on the screen, gesture.moveX or gesture.moveY, for example. *Look closely at the Drag and Drop Assignment from class for help.*
   It could also help to download the real Tinder for inspiration.

4. Vector Icons for Action Buttons

Each of the action buttons on the bottom row should be replaced with vector icons. The vector icons should loosely match the original colors, but should still be contained within the white circles. Get creative with the icons you choose. There could be bonus points depending on if your icons are cool af. But each icon must trigger a function, either swiping right, left, etc. **Tapping an icon does not have to trigger a swipe animation, but can just trigger an alert, and generate a new profile.**

Grading

Grading is based on the specifications above. Like last time, we will be rewarding bonus points for novel solutions and extensions.

Random Profile	1 point
3rd Party Main View Component	2 points
Animations (Swipe + Alert)	5 points
Vector Icons	2 point
Total	**10 points**

Extensions

Give these a shot! Try at least one. You might “superlike” what you end up with.

- Make the swipe alert a heart/X/Star animation that fades in and fades out in the center of the screen (+2 pts)
- Trigger the appropriate swipe animation when the like/dislike/superlike icon is tapped. Not just changing the profile, but the card swiping away. (+2.5 pts)
- Use States to keep track of profiles that you have already seen, and have a “You Are Out of Swipes” alert triggered when they run out of profiles to look at. (+1 pts)
- Randomly display a “Match” notification and display a modal where someone can type an introductory message (+2 pts)

Resources

You can optional starter files for this project in the GitHub repository here:
https://github.com/CS47-Stanford/Assignment4

Git, or source control in general, is out of the scope of this class. You will be able to access the entire starter project by pressing the “Clone or download” button and then clicking on “Download ZIP.”

Submission

When you have completed your assignment, please remove the `node_modules` folder and package the entire project that you worked on in a .zip file. **Please submit this file on Canvas**