Mobile Device Final Project Proposal

Course: CSCI 4100U
Professor: Dr. Michael Miljanovic
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Group Member:
Nathan Weir
Jun Ye
Keethen Jayarajan
Freddie Brandreth
Jia Yang Lin

"Is my Partner Cheating on me?"

Overview

"Is my Partner Cheating on me?" is an application that allows jealous partners to monitor their partner's activity on social media, automatically reporting signs of infidelity - the most common source of break-ups in 2023. The application gives users an "Infidelity Score": Given an input partner's username as well as a "rival's" username, the program will search through the partner's likes, and if a certain threshold of likes per day is detected on that rival user's page, the application will mark your partner as a CHEATER!

For more accurate results, the user is given a poll to determine the rival's threat level - The user can identify the rival as "Just a Friend" (5), "It's Nobody" (4), "Video Game Duo" (3), "Co-Worker" (2), and "Family Member" (1). The number next to the name is the threat level of the rival, and will weigh into the Infidelity Score.

The application will also have two other functions:

First, the ability to monitor a partner's likes on any other inputted rival's account, giving updates every time a like is sent on a photo, allowing the user to examine the photo (are they being supportive, or are they liking mirror selfies?). Many rivals can be selected on this page, and will provide additional warnings if many photos are being liked in a short timespan.

Second, the ability to enter "Why do I hate my partner again?" messages. For those who lack willpower, leaving daily "Why do I hate my partner again?" reminders is the perfect way to maintain the follow-through required to break up. Every 24 hours, the app reminds the user to write another fact in a notepad-style page. The app can also automatically add an entry once the infidelity score is calculated, leaving it in the notes page as a permanent reminder of their partner's lack of loyalty.

List of group members and their responsibilities

The project will be split into 5 parts:

Sign-in and framework, as well as stitching parts together (swiping through screens, transitioning to select new partner/rival, setting up account details and cloud storage), overall app coordination.
Nathan Weir

Enter rival name and determine threat level page, followed by the enter partner name page. *Collaboration with creating "get account" function needed to get the social media account and return likes/week on a certain rival's social media page*
Jia Yang Lin

Account tracker page, allowing a user to track different partners who each may have many rivals. Creates notifications for when a partner likes a rival's post. *Collaboration with creating "get account" function needed to get the social media account and return likes/week on a certain rival's social media page.*
Jun Ye

Get Infidelity Score page, creates calculation of the Infidelity Score based on rival threat level and likes/week. If Infidelity Score is sufficient, will present results to the user, and will prompt the user to create a new note based on the result. *Semi-collaboration with app coordinator to redirect the user to the notes page as well as the rival/partner entry page.*
Freddie Brandreth

Notepad page, will create notifications every 24 hours to remind the user to create a hateful note about their partner. *Floater role, can assist other roles if workload needs to be shared due to time constraints (and if extra time is available).*
Keethen Jayarajan

Basic Functional Requirements

Dialogs and pickers
- *Dialogs and pickers will be used in many different ways throughout the app. Whether it be an entry for a rival/partner's name, selecting a threat level for the rival, or prompting the user to create a new note. Functionality may be added to the notes to allow for image uploads, allowing a user to pick images to upload alongside their notes.*

Multiple screens and navigation
- *The main three screens can be swiped through (Infidelity Score screen, Rival Tracker screen, and Notepad screen). As well, users can take themselves to re-enter names of rivals and partners. The infidelity score can also prompt the user to go directly to the notes screen to create a note.*

Snack bars
- *"Note deleted", "note added", "rival/partner account could not be found", "signed in!", there are many uses for snack bar notifications in this app.*

Notifications
- *As mentioned earlier, notifications will be provided to the user to remind them to create a hateful note about their cheating partner every 24 hours, as well as notifications from the rival tracking page.*

Local storage (SQLite)
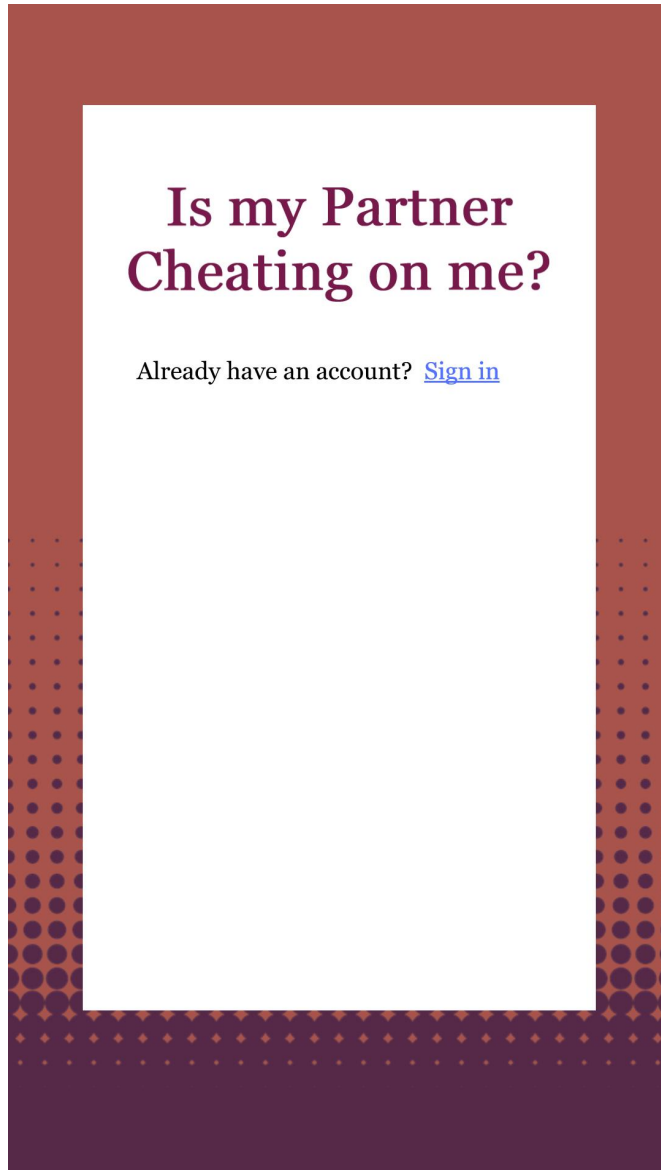- *The user's notes will be locally saved.*

Cloud storage (Firestore or other)
- *Account information will be stored in cloud storage. If other features of the app can be added to cloud storage in useful ways, it can be added if time permits (rivals you were tracking in your account, notes that you created. etc.)*

HTTP requests
- *GET requests will absolutely be required to find social media usernames, and to check if a partner's social media account has liked a rival's account.*
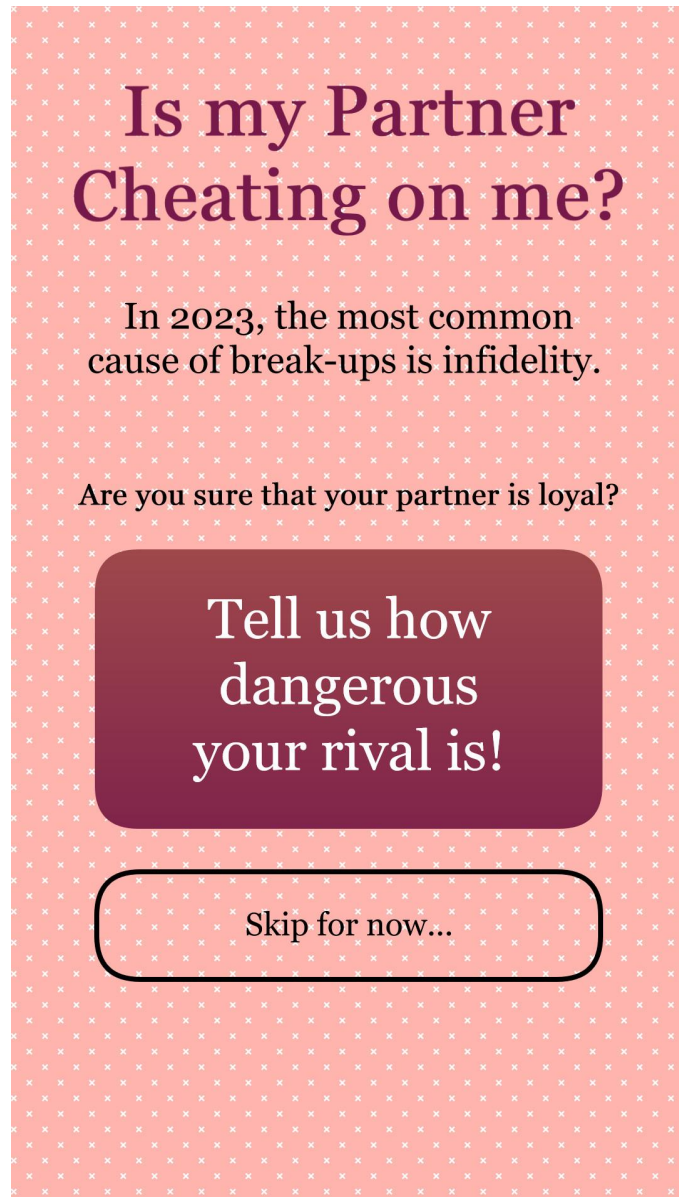
Mockups

Sign-in page

Is my Partner Cheating on me?

Already have an account? Sign in

Concept for the sign-in page. Currently missing options to enter username and password, as well as options to sign in with Google. Snackbar notifications will pop up if the username and password doesn't match account data saved in the cloud.

Transition page into rival information

Is my Partner Cheating on me?

In 2023, the most common cause of break-ups is infidelity.

Are you sure that your partner is loyal?

Tell us how dangerous your rival is!

Skip for now...

Directly after signing in, users will be brought to a page similar to this. This will transition users into the experience the app will provide, as well as start them on their journey of figuring out if their partner is cheating on them or not.

Rival threat level page

Is my Partner Cheating on me?

Which one of these would describe your rival?
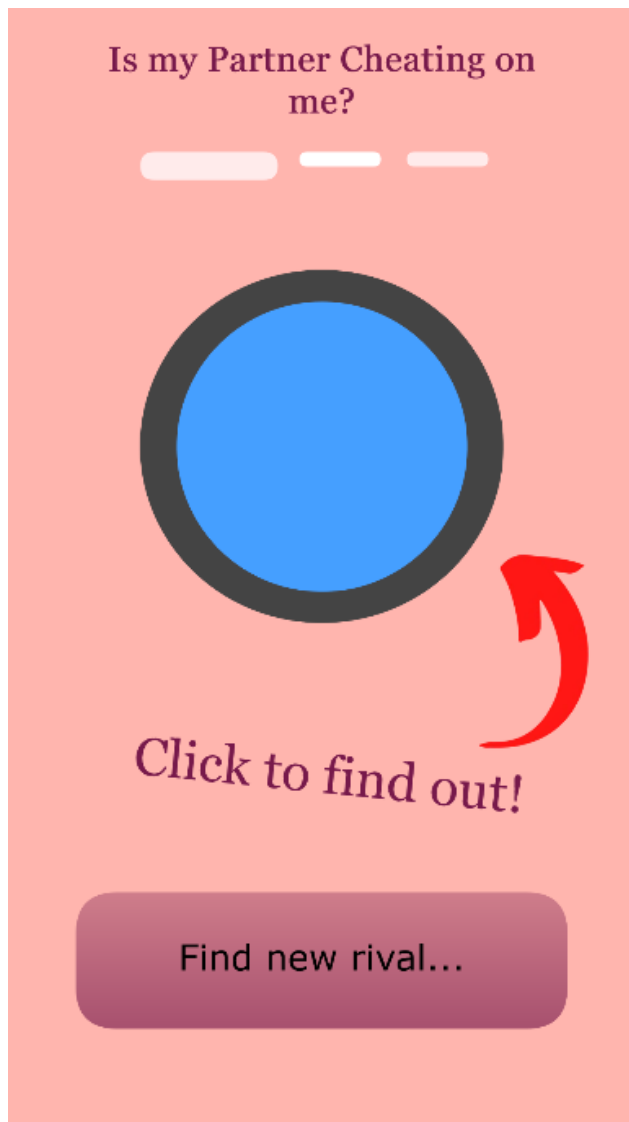
Just a friend 😅

It's nobody 😱

Game Duo 🎮

Co-worker 💼

Family member 👨‍👧

Concept for the rival threat level page. In the final product, social media rival username entry will also be on this page. A similar page to this will follow directly before or after, prompting the user to enter their partner's username as well.

Infidelity Score page

Is my Partner Cheating on me?

Click to find out!

Find new rival...

Concept for the infidelity score page. This page is missing graphics, but the simplicity of the page is apparent: This is the defining feature of the app, and it's meant to be the easiest and simplest button to click and understand what it does. Upon clicking this button, the accounts of the rival and partner have been found, their threat level has been attained, and calculations will begin to determine if the partner is a cheater.

As indicated by the three ovals on the top, this is one of three pages that can be swiped through. They will each be similarly simple, and will take a similar appearance to fit the theme.

The background will fade between colors for each page swiped through, from a cream pink to a deep magenta.

This page is also missing a feature - to sign out and review account details/delete account. This will appear in the top right corner of each of the three screens, along with a "Is my Partner Cheating on me?" logo that has yet to be created.

See attached files for UML Diagram, as well as image files.