Working Prototype Known Problems Report – Voice Capsule by the Voice Capsulators, Revision Date 11/30/2021

Known Problems:

1. Can send friend requests multiple times if the other user has not accepted or declined it yet.
   a. Nothing changes, does not add a duplicate field.
   b. To fix, check the other user's request list and prevent you from sending if you are already on it.
2. On capsules page, voice capsules will reload from file in a different order than they were fetched from the database
   a. App reads local voice capsule files in alphanumerical order while capsules recently fetched from the database are inserted at the top of the list
3. Currently no management of sent voice capsule records in the database
   a. List builds indefinitely. Users can send an infinite number of capsules.
   b. Potential fix: Store capsules you have sent that have not been opened. Once opened, delete from your list. You can keep track of how many capsules a user has sent and potentially limit it.
4. Currently no way to permanently delete a Voice Capsule before listening to it
   a. Capsules persist in the database until you open them, even if you delete them locally. Fault is in the database, it can be fixed with data engineering from the backend.
5. No way to remove friends.
   a. There is no user input that causes this failure, it can be fixed on the developer-end by adding "Remove Friend" functionality.
6. No way to delete your own account.
   a. This can be implemented by adding a delete profile button to the profile page. It would then remove the user from their friend's friend lists and remove the user from the Firebase authentication.
7. Cannot change your username after creating an account.
   a. Can be fixed by adding "Name Editing" functionality in the profile section of the Mobile Application.
8. No notifications of when a capsule becomes available to listen to.
   a. This would require knowledge of having Flutter running in the background and knowing when the user's pending capsules field in the database is altered.

9. After recording a Voice Capsule, choosing a date and time using the picker and clearing the field using the "x" button does not reset the chosen date--it is still possible to send the Voice Capsule using the last selected date/time combination.
10. On the profile page, users are not able to select a profile picture--the chosen image is simply a placeholder, but profile name and email do correspond to the current user.
    a. Add a function that can read the user's images library and import a photo.
11. There is potential for an overwrite of a user's friend's list if two other users request them at the exact same time. This causes the request that was sent "after" to be the only one sent. The window for this is within a second.
    a. The specific code creating this fault is somewhat unknown. Therefore, the first possible line of action is determining where the issue exactly lies.

Suggested User Stories/Acceptance Criteria:

1. As a mindful individual, I want to be able to record and send myself voice recordings so that my future self can be inspired by positive messages and affirmations
2. As a consumer, I want to use apps which handle my personal data in a secure manner so that my privacy is not compromised
3. As a sociable person, I want to be able to search for and add other users as 'friends' on the app easily so I can stay connected with my friends