# **MACCI**

Management and Assistance for Children with Chronic Illness

Final Write Up

Tool Used: Figma



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## I. Personas

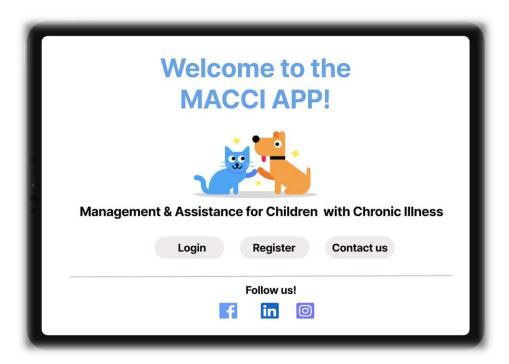




# II. Prototype Wireframe

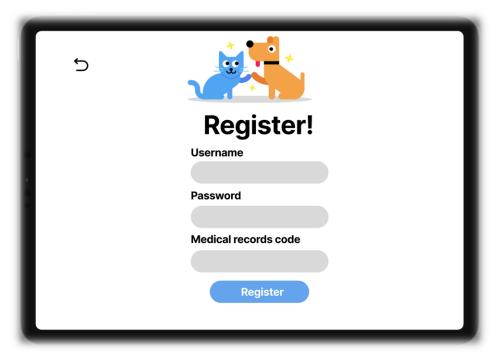
#### Frame 1: App Start Screen

If new to the app or if the user has logged out, this screen will appear when the user opens the app.



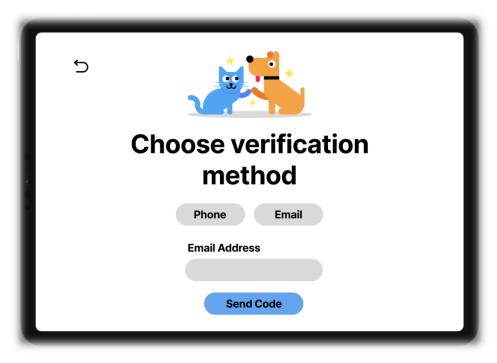
Frame 2.1: Register Screen

If a user is new to the app, they will need to register using the register button located on the app start screen. Upon choosing this option, users must fill out the appropriate information and enter their medical records code obtained from their provider (this is needed for verification and security purposes).



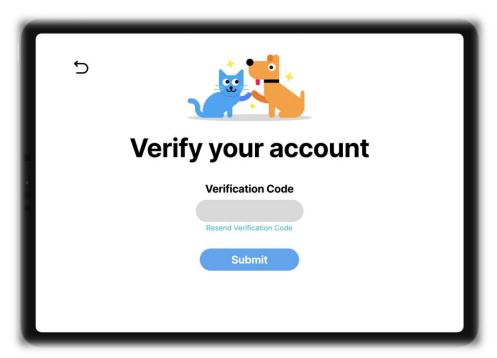
Frame 2.2: Verification Screen

Clicking register on the register screen takes the user to this screen where they must take an additional verification method of either verifying their phone or their email address.



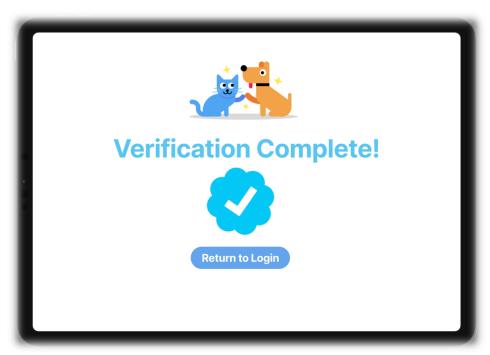
Frame 2.3: Enter Verification Code Screen

Upon clicking send code on the verification screen, users are presented with this screen where they must enter the code they receive.



Frame 2.4: Verification/Registration Complete Screen

This screen is confirmation that the user has successfully completed the registration and verification process. Users are prompted to login by clicking the 'return to login' button.



Frame 3: Login Screen

Upon clicking the 'return to login' button from the previous screen or upon clicking the login button from the app start screen (if the individual is an existing user), the user is presented with this screen where they must enter their login information. The user is able to checkmark the "Remember Password" box in order for the application to remain signed in.



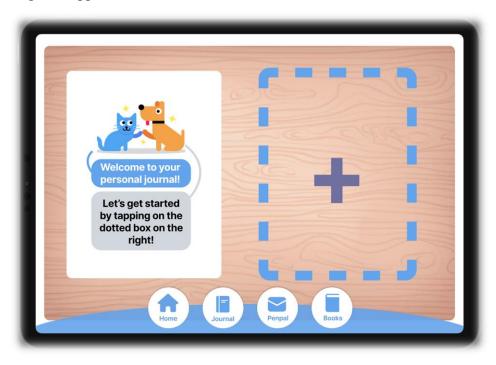
#### Frame 4: MACCI Home Screen

This is the app's home screen that will always appear when the user selects the app, provided that they are an existing user and have not been logged out after pressing the "Remember Password" box in the previous screen. Users on the home screen have the option to go to the journal, penpal, or books section. They also have the option to sign out.



Frame 5.1: Journal Creation Screen

Upon selecting the 'my journal' tab from the previous screen, new users will be prompted to create their journal as shown with this screen. At the bottom of the screen is a navigation bar. This bar will take users both to and from each labeled section's home screen as a quick means to navigate through the app's features.



Frame 5.2: Selecting Journal Color Screen

Upon clicking '+' in the journal creation screen, users will first be prompted to select the color they would like for their journal.



Frame 5.3: Selecting Name Color Screen

After deciding the journal color, users will be prompted to select the color that they would like for their name which will appear on their journal. Users will draw in their name on the journal line using the touchscreen of their device.



## Frame 6: Journal Homepage Screen

After finishing the journal creation, users will be taken to this screen which is known as the journal homepage. Users who had previously created their journal will not see the instruction prompt with the "Thanks!". Instead, when they select the 'my journal' button from frame 4, they will be taken to this screen without the prompt and will be able to start a journal entry by clicking on their journal.



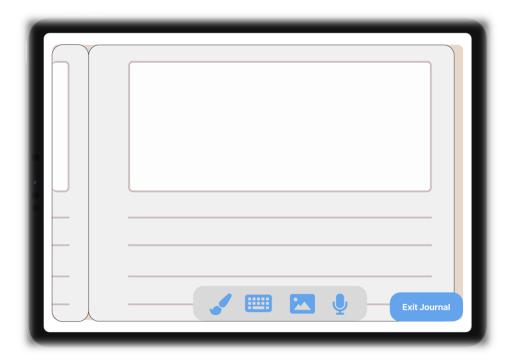
## Frame 7: Journal Log Screen (without entry)

Opening the journal will reveal its past logs of the user (if applicable) and the option for users to start a new journal entry by clicking on the button in the top right corner.



## Frame 8: Journal Screen

This screen appears when starting a new journal and users have the option to draw, type, upload an image, or upload audio for their journal entry.



Frame 9: Journal log Screen (with entry)

Upon exiting the journal, users will see their journal entry saved in their journal log that they can tap on to view at any point.



Frame 10.1: Penpal Connect Screen

If a user taps the penpal option from the MACCI home screen or from the navigation bar, this is the screen they would see where they would be prompted to connect with a penpal. A prompt will pop up asking for confirmation for both the 'connect' and 'block' options on this screen.



Upon scrolling down this screen, users will see the option to search for a specific user. This is useful for users who have met a specific user in real life that they would like to penpal with.



Frame 10.2: Search Penpal Screen

By clicking the 'search user' button from frame 10.1, users can search for specific users they would like to penpal.



Frame 11: Messaging a Penpal

Upon connecting, users will be able to communicate with their penpal.



## Frame 12.1: Books for You Screen

By clicking on the 'Books' option from frame 4 or the navigation bar, users will first be automatically brought to this screen with the books 'for you' tab selected.



Frame 12.2: Favorite Books Screen

Clicking on the favorites tab from frame 12.1 will bring users to this screen where they can see any applicable books that they have favorited.



#### Frame 12.3: Find More Books Screen

Clicking on the 'find more' tab from frames 12.1 or 12.2 will bring users to this screen where they can peruse all the books that MACCI has to offer.



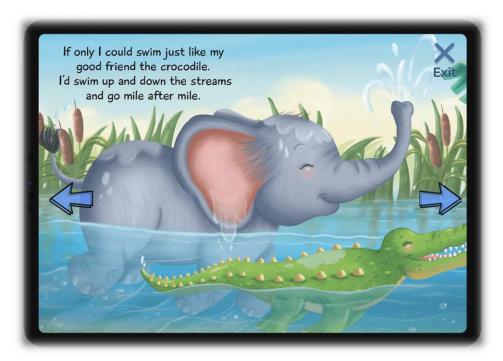
Frame 12.4: Book Description Screen

Upon selecting a book, users will be brought to this screen where they can favorite it or start reading it.



#### Frame 12.5: Inside Book Description Screen

When users 'enter' a book, they are brought to a screen like this. Users can navigate through the book using the blue arrows on either side of the screen to go from page to page. The exit button in the top right will take users back to the title page of the book.



# III. Conclusion & Next Steps

To conclude, we have completed our prototype and our previously outlined issues of childhood feelings of isolation, a lack of information for children with chronic illness, and a lack of methods for such children to express themselves by implementing 3 solutions in our MACCI app.

The first solution we implemented was the development of a journal section. A large motivation for this is that many of our target users can have a hard time communicating what they are going through to their friends and family, disallowing them to engage in one of the most primary means of catharsis. For this reason, we felt it was crucial to include a method of self-expression in our app so that our users could have a means of allowing themselves to explore their own emotions and express them.

The second solution we implemented was through the development of a penpal section. This solution is intended to address the issues of loneliness and a lack of community for our users. We have designed a penpal system to recommend penpal users to one another who share commonalities such as their illness, hobbies, and age. In doing this, we have helped our users not

feel alone in what they are going through, as well as helping connect users to people who share common interests.

The third and final solution we have developed was the implementation of an informative books section. This solution addresses the lack of information that our users may face as well as addresses the feelings of isolation they may experience by providing them with books that have characters who face similar issues; thus, allowing our users to identify with and connect with the characters in these informational books.

We have a few crucial next steps. Currently, our prototype is out for testing with iPad OS users, and we have already received positive feedback. Given this, we plan to start expanding our app to be available on other operating systems, the first of which being Android. Additionally, it would be useful to eventually develop a parent side of MACCI. Our next step is to begin deliberating on a way to implement this. We are looking at either building on to the original app by adding a parent login to the app start screen or building an entirely new companion MACCI app for parents. Some of the core features of the parents' side that we are considering include recommending topics for parents to talk about with their children. This would be based on things that their child journals about. However, we will not reveal the specific journal entry or any specific language to the parent that led the algorithm to suggest that topic of conversation in favor of protecting the child user's privacy. In addition, we are considering a feature where parents can communicate with other parents so that they themselves can also find a community that understands their pain points. The last thing we are considering for the parent side is to provide them with resources such as reliable specialists to talk to about any concerns that they may have.