Up & Down Mood Sensor Changelog

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**Revised Prototype Link:** [**https://www.figma.com/file/1YChmbD5iLuauEBKQXwppd/Prototype?node-id=0%3A1**](https://www.figma.com/file/1YChmbD5iLuauEBKQXwppd/Prototype?node-id=0%3A1)

**Feedback from peer review**

Suggested Changes:

* Option for non-readers
* Privacy protection for teachers/caregivers using the app
* Make suggestions based on patterns (you seem to be down at 3pm on weekdays, look for possible causes)
* Integrate with other communication apps
* Customize icons to the user
* Empty up blank space
* Add text labels for accessibility
* Timestamp of when things are logged
* Workflow is confusing – need to check the flows & fix
* Will music actually play?
  + Consider connecting to Spotify or Apple Music
* Need a screen after an external device is paired
* Changes in iPad need to move over to iPhone
* Personal preferences/settings page
* Some options are not being displayed on the iPhone prototype version
* App themes need to be represented more
* History of data is needed (may calendar view)
* Frequently used or favorites shortcuts
* Remove click after clicking color – just go to home page
* Put check mark/confirmation on the home screen to signify the mood has been logged
* Need confirmation page

**Feedback from Shaun**

Suggested Changes:

* What data is being tracked with each external device?
* User testing on color pickers – which colors are important to include?
* Add text labels for accessibility
* Reorganize the word page – add some order to it
* Include some “favorite” words
* Where is history logged?
* Confirmation of what’s being logged
* Workflow for choosing options needs to be included
* Consider a unified screen (colors, words, sound) for quick entry

Actual Changes (based on peer review & Shaun’s feedback):

* Added
  + red to color options
  + color picker page
  + text labels for accessibility
  + Menu page with preferences/settings, history, log out options
  + Possible word options for “positive” and “sad” searches
  + Disclaimer page for privacy of users
  + More info to Bluetooth pairing page
    - Wrote out 3 steps to pair device
  + Favorites page
    - Added favorite colors, words, songs, and places to quickly add them again
  + A text entry option to track mood
    - Allows the app to also be used as a journal/diary
  + History page:
    - Added heart rate graph
    - Mood pie chart
  + Home page
    - Added personalized name to welcome
    - Added text entry option
  + Confirmation Page
    - Every time a word, song, picture, etc. is logged, the confirmation screen appears
* Explained which devices provide what kind of data
* Reorganized words page into categories
* Fixed the colors that were not showing up in the prototype
* Filled empty space on Bluetooth connection page
* Personalized the home page further to include display name & weather based on current location.

**Heuristic Evaluation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Tester Name | Area of the prototype | Heuristic Violated | Steps to reproduce | Explanation of the problem |
| Raj | Connecting external devices to the app | Visibility of system status | Sign up as a new user and attempt to connect to an external device | The system does not inform the user if the external device was successfully connected. |
| Raj | Home page | Aesthetic and minimalist design | Navigate to the home page | The system has a back button called “Return to Menu”. To keep it minimalist, just “Menu” would be enough. |
| Raj | Viewing mood and data history | User control and Freedom | Go to menu and view your mood history | The right arrow button on the trends page leads the user back to the home page and is misleading. |
| Raj | Entry logged confirmation page | Match between system and real world | Log a mood. | The confirmation page suggests seeing your tracked history but does not indicate that it can be clicked. |
| Emily | Quiz Page | Match between system and real world | Specify different options for tracking mood. | The quiz to evaluate which options are able to be used by the option is short and simple. It could be more complex if there were more options to choose. |
| Emily | Entire prototype | Consistency and Standards | Ensure that all pages look the same (options are placed on the same area for each page) | Back arrows and top header should always be in the same place on pages. Run through each page to make sure of this. |

Suggested Changes:

* Add a confirmation page informing the user that their device was successfully connected.
* Change wording “Return to Menu” to just “Menu”.
* Remove the right arrow button on the “trends” page.
* Change the color of the wording “See your tracked history” to blue.
* Future prototype: make quiz more complex and perhaps collect data on the users ability to communicate (verbal/nonverbal communication/ disabilities like blindness/deafness – integrate more accessible options)
* Make each page have the same options placed in the same areas.

Actual Changes:

* Added a confirmation page informing the user that their device was successfully connected.
* Changed wording “Return to Menu” to just “Menu”.
* Removed the right arrow button on the “trends” page.
* Changed the color of the wording “See your tracked history” to blue.
* Moved all back arrows and forward arrows to the same place on each app page.

**User Evaluation**

*Script:* Up&Down Mood Tracking App allows users of all abilities to log their emotions and track their logged data along with their physiological data from an external device like an Apple Watch. This app is highly customizable with options to change the app “theme” to favorite characters like Scooby Doo or sports teams like the Red Sox. Moods can be tracked through use of words, colors, songs, places, character emotions, and text entries. It not only integrates physiological data from devices but can also integrate weather based on current location. Users can save their commonly used entries to the “favorites” page to quickly add them. In this app, we give you three tasks to complete:

1. Sign up & “connect” a device via Bluetooth
2. Log a color
3. View the history & trends page to see trends in logged data & physiological data

Questions to ask:

* Was the app easy to navigate?
* Did you understand the app themes?
* Is there anything you would change?
* What else would you want to see in an app like this?
* Based on your experience with communication apps, do you think this app is accessible to all?
* Any other apps/devices that could be integrated into this app?

**User 1**

Suggested Changes:

* Add text labels to the places/character emotion images for accessibility
* Could make interactable with communication apps
  + Add app to connect
  + In addition to moods being tracked in history, you could also have common communications logged in Up&Down history page
  + For instance, if a user communicates in their communication app that they ate bacon for breakfast, this could also be tracked in the history page
  + Also, if they communicate an emotion in their communication app, that could also be logged in the history page
* Lists throughout are too plain
* Maybe add a page similar to the Bluetooth page to connect external music app

Actual Changes (based on user testing):

* Added icons to lists
* Added text labels to all pictures
* Added Apple Music/Spotify integration
* Added comm

**User 2**

Suggested Changes:

* App themes are a little confusing – need to be better represented or removed
* App was overall easy to navigate, the home page draws everything back together
* Confirmation page is also good to ensure entry has been logged
* Make the words pages scrollable
* History page could have more details – consider adding the communication device details and making this page scrollable
* Trends page could also have more details with communication app info/more info in general
* Color scheme could be improved.
* Process of adding a favorite color could be made more intuitive. The button especially was hard to find.
* The back arrow pointing to the menu was confusing. Could be replaced with a different icon.

Actual Changes:

* ‘Add to favorites’ button’s design is changed so that it stands out more.
* Search field text on the colors page is changed to “Choose a color from the color picker” from “Begin typing to search...”
* The back arrow on the home page is replaced with a hamburger menu icon.