

Self-Control Food App.



DESIGN IDEA

- People use apps to solve a problem let's develop an app for people to control the way they eat food.
- Users take picture of food and answer questions about the food they are trying to resist. Users swipe on a subset of foods every time they open the app.
- App contains four parts take a picture, food gallery containing pictures, monthly review of foods, Tinder like swiping feature to practice resisting foods.



DESIGN GOALS

- Phase 1 Building a food library.
- Phase 2 Weekly reviews of foods (first iteration contained daily reviews, which have since been removed).



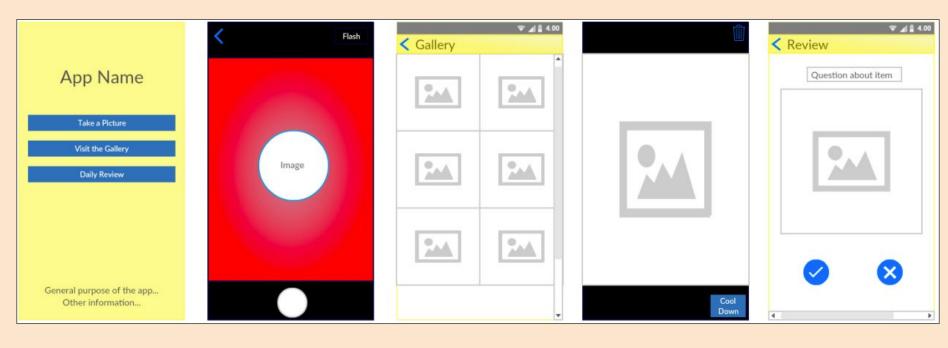
TECH STACK

- Android app dev Visual Studio (C#)
- Pictures database SQLite
- Questions/ Responses database Excel
- Mockups Invision, Sketch



LAYOUT AND NAVIGATION WIREFRAMES

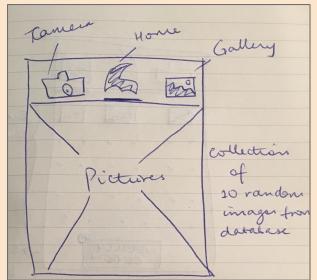
Iteration 1



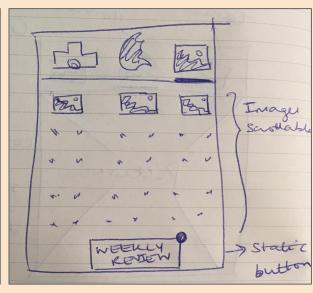
Main page -Containing all activities of the app. Camera page -Designed with a small circumference to focus on food. Gallery page - Tile format with two images per row.

Swiping page -Tinder swiping format with cool down/ heat up buttons. Swiping page -Tinder swiping format with cool down/ heat up buttons.

Iteration 2







Main page - App opens directly to swiping pictures (10 random images). Main purpose of the app is accessed immediately. Remove buttons from main page to make app more intuitive.

Main page - Once user swipes all 10 pictures, app displays text notifying the user to take more pictures. Text provides more context to users and guides them to next step.

Gallery page - Displays images in tile format, split by 3 images per row. Weekly review button is static on page. Button contains red signal which notifies user to complete weekly review at the end of the week.



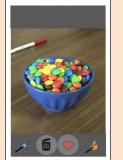
PHASE 1 BUILD FOOD LIBRARY

- 1. Practice swiping on foods which a person to practice in a more "controlled" situation on the foods/drinks that they frequently feel a desire and tempted to eat/drink more of.
- 2. Take pictures of foods they would be eating/drinking during the week (i.e the foods they are also looking to resist)

1. Practice swiping - (Cooling/ making hot)







Makes food appear brighter, making food appear *more* enticing



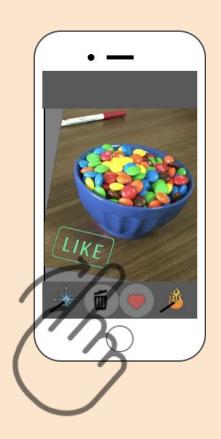


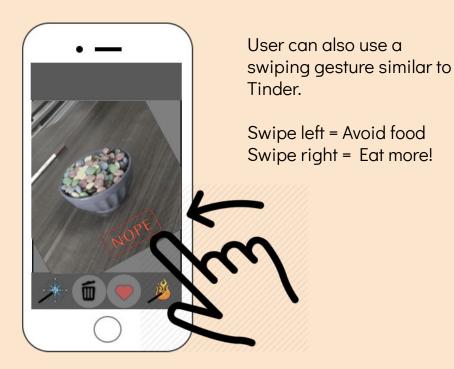




Makes food appear distant, making food appear *less* enticing

1. Practice swiping - (Swipe left/right)





2. Take a picture

After taking a picture, a person will answer multiple questions including:

- How much do you like this food/drink?
- How tempting this food/drink is to you?
- How healthy you think this food/drink is?
- How frequently do you eat/drink it?
- How frequently do you want to eat/drink it?



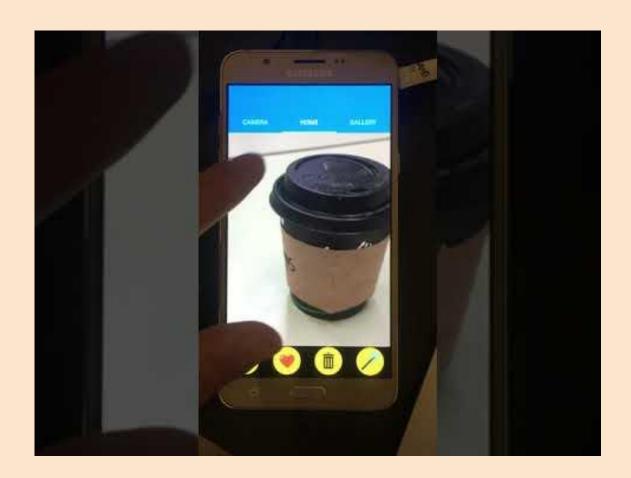


PHASE 2 -

WEEKLY REVIEWS

- 1. The weekly review questions resembles the questions each person answers in phase 1 (Building a library activity) about each specific food/drink.
- 2. We want to see if there were any changes in the attitude and experience of desire toward a food/drink, the frequency of eating a food (as one measure of self-regulation success).







Ambient.

Art Therapy App





- App that provides art therapy aims to <u>ALL</u> people regardless of age, gender, race
- Art will be in the form of music playlists, books, art posters.



DESIGN GOALS

- Introduce users to new forms of art through a simple, easy-to-use interface
- I Enable users to track their mood over a period of time

- Match users with each other based on mood/art recommendation
- Foster inspiration and creativity in users.

TECH STACK

- iOS app dev React
- Mockups Invision



GATHERING USER REQUIREMENTS

Method #1 - Interviews

Method #2 - Use cases



METHOD #1 INTERVIEWS

Goal

- I Understand the users and their familiarity their technology
- I Identify features based on their needs
- Establish mental models through questions

Strategy

Interview five people from diverse backgrounds (age, gender, profession)

Results

- Participants have <u>all</u> interacted with mobile apps
- Most users found the idea of art therapy novel
- All users have interacted with some form of art



METHOD #1 SUMMARY (USER NEEDS)

- Easy and intuitive way to input mood
- Write notes about their current mood
- I Short amount of time to input their mood

- Reminders to input mood or get art therapy
- The ability to save certain art to the app
- I Visual representation of inputted mood



METHOD #2 USE CASES

Goal

I Gather user requirements based on type of user

Strategy

Define use cases based on type of user and usage of app to define functional requirements

Results

- Provided insights on must have functional requirements in design
- Three types of navigations considered
 Initial course, alternative course A, alternative course B



METHOD #2 SUMMARY (REQUIREMENTS)

Register and onboard

Users can register and receive a confirmation when successfully registered

Track mood

Users can input their mood and visually track their mood over time

Discover art

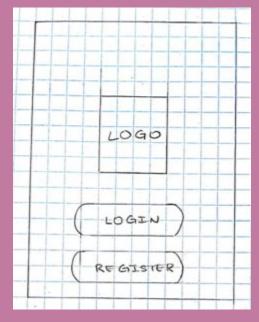
Different forms of art will be provided to the user based on their inputted mood

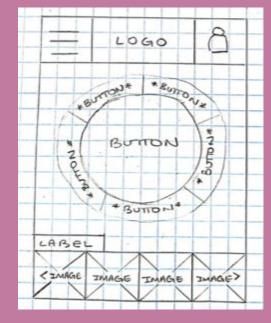
Connect users

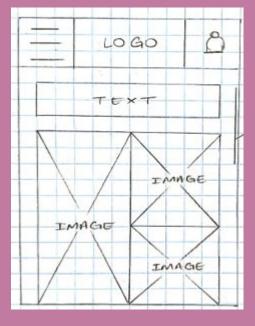
Users will be matched with other users based on recommended art



LAYOUT AND NAVIGATION WIREFRAMES







Onboarding Page

- Application of "Rule of Thirds" with branding on top 2/3 of screen and registration buttons on 1/3 of screen
- Considered pill shape for button sizes

Mood Input Page

- Header: Hamburger menu for navigation, app logo and user profile
- Workspace: Buttons to input mood in centre of page to afford clickability.
- Footer: Provide visual view of user moods over time by using emojis

Art Recommendation Page

- Header: Hamburger menu for navigation, app logo and user profile
- Workspace: Text label to reiterate current view of app
- User can view recommended art moodboards in grid layout by scrolling



- App title
 - o "Rule of thirds"
 - Provides main focus for page
- Native slide control for footer text
 - Text margin affords slide control
 - Slide control moves left, providing recall for iOS platforms
- Font: Futura
 - Provides "modern" feel
- Galactic background
 - Provides an immersive experience for the user



- Consistent application of "Rule of thirds"
- Consistent colors and font
- Use of icons to afford recognition of login fields
 - Remove redundant text
 - Input fields sized based on iOS design guidelines
- User can log into app with Facebook credentials
 - Follow modern app design guidelines



Header

- Contains hamburger menu, app title and user icon
- Minimalist design considered to eliminate information overload

Body

- Contains button, big enough to afford clicking for user
- Shadow effect on the button to make it intuitive for tapping
- Consideration of text to provide a more inviting and warm user experience



- Header
 - Consistent design
- Body
 - Emojis reflecting moods (preset),
 fly out from once the user taps
 the button
 - Emoji size considered to afford clicking
 - User taps on an emoji (based on user's mood)

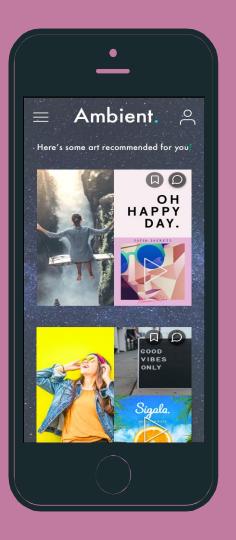


- Header
 - Consistent design
- Body
 - Accent colour of the application changes to reflect mood selected by user
 - 'Art' button displayed to provide art recommendations to user
- Footer
 - Mood history displayed for last four days to allow user to track mood variations over time (system feedback)

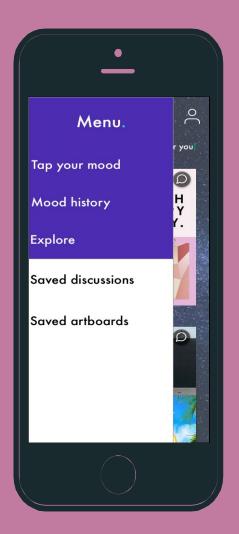


Mood selection

- Header
 - Consistent design
- Body
 - Scrollable view containing artboards
 - Each artboard consists of three different forms of art (i.e - Poster, quote, song)
 - Artboard cutoff on the bottom off the screen, to recall scrolling
 - Use of icons to 'bookmark' and 'join conversation' on artboards



- Collapsible menu saves screen space
- Accessible from all pages
- Intuitive swipe controls to close menu





USER TESTING OVERVIEW

- Defined usability methods, goals and scripts for user tests
- Applied <u>cognitive</u>
 <u>walkthrough</u> and
 <u>heuristic evaluation</u>
 tests

- Completed user testing with <u>five</u> users, including young adults (20-23) and mature adults (45-50)
- User testing completed with high-fidelity mockups on Sketch

- Recorded data on user feedback during testing
- Summarized results and iterated app design using feedback



USER TESTING GOALS

Ease of learning

- ≥ 80% of users must easily and accurately identify the emoji reflecting their mood
- ≥ 80% of users must easily describe their historical mood variation

Efficiency of use

- ≥ 80% of users must be able to navigate to certain pages in the app without vocal instruction ≥ 1 minute
- ≥ 80% of users must encounter less than <u>two</u> errors per task

User satisfaction

- Users must score ≥ 6 on a 7-point likert scale for satisfaction
- Users must score ≥ 6 on a 7-point likert scale for confidence

Discoverability

- Users must score ≥ 3 on a five-point likert scale for satisfaction
- Users must score ≥ 3 on a five-point likert scale for confidence



USER TESTING METHODOLOGIES

Method #1 - Cognitive Walkthrough

Method #2 - Heuristic Evaluation



METHOD #1 COGNITIVE WALKTHROUGHS

- User tries stepping through interface pretending the interface is fully built, with help from facilitator
- Aim to find major problems within design based on areas of confusion or circuitous paths



METHOD #2 HEURISTIC EVALUATION

Inspection done by several experts in usability, each evaluating against a set of usability principles to uncover problems in design



USER TESTING TASK SCENARIOS

- <u>Task #1</u> Log in using Facebook credentials
- <u>Task #2</u> Choose a mood (happy) and describe historical mood variation given system feedback
- <u>Task #3</u> Choose a mood (sad) and bookmark a recommended artboard of your choice
- Task #4 Join a conversation for a recommended artboard of your choice
- <u>Task #5</u> Log out of the application



USER TESTING PERFORMANCE MEASURES

Speed

Users must take ≤ 1 minute to complete a task

Accuracy

Users must make ≤ 3 errors per task on average

Experience

Users must have a rating
of ≥ 6 regarding their
experience with the app (7
point scale)

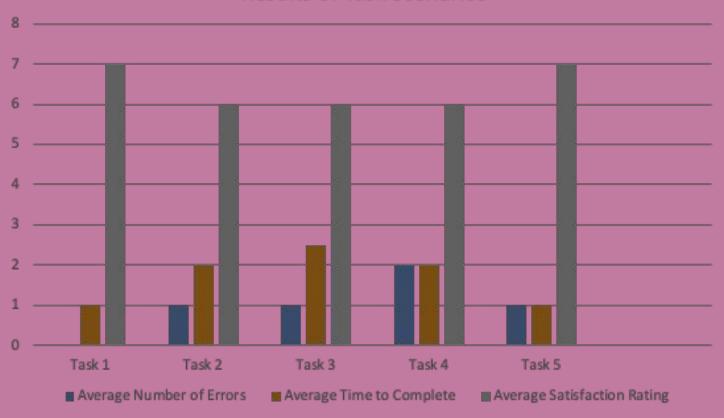
Feedback

Users feedback must contain positive sentiment regarding the system feedback (i.e recommended artboards, discussions etc)

USER TESTING RESULTS

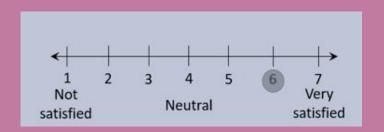
- Low error rate (1 error/per task/per user on average)
- Users take approximately 1.7 minutes to complete a task (on average)
- I High satisfaction rate (satisfaction rating of 6 on average)
- I High confidence rate(confidence rating of 7 on average)

Results of Task Scenarios

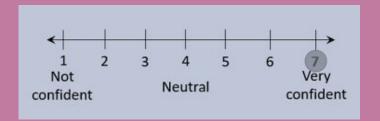


How <u>satisfied</u> are you to accurately input your mood and receive suggested art?

(Average rating - 6)



How <u>confident</u> are you to accurately input your mood and receive suggested art? (Average rating - 7)



"It would be really nice if the app can show art events taking place around the area!"

"The app is very easy and fun to use"

"I wish there were more icons to represent the moods"

"I find the icons that represent the mood to be fun. It's a good way to capture how I'm feeling"