

The Journey Of:

# GAME NIGHT

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# Domain, Problem(s), & User

**Domain:** Game Night is a creation for picking random games to play during online or in person social gathering.

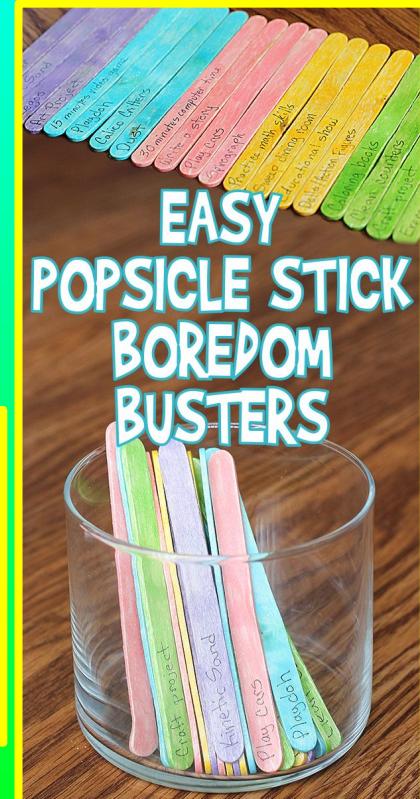
**Problem:** This app will use a popsicle jar of game suggestions into an interactive digital experience to solve the problem of not being able to make a decision when choosing activities. Thus, users will be able to easily generate game options, making Game Night efficient and engaging!

**User:** This creation targets users who utilize social gaming and participate in game nights with friends and/or family.

# 01. MOODBOARD



# Proposal 1: Game Night Popsicle Sticks



# Sources for Moodboard

- <https://eastgatepres.org/events/game-night/>
- <https://www.campussurvivalkits.com/new-products/family-game-night-bundle>
- <https://woojr.com/popsicle-stick-boredom-busters/>
- <https://benjweinberg.com/2022/02/06/a-roll-of-the-dice/>
- <https://www.nytimes.com/wirecutter/reviews/best-alarm-clock/>
- <https://www.merriam-webster.com/grammar/favorite-or-favourite-usage>
- <https://www.istockphoto.com/photos/people-playing-board-games>
- <https://www.shutterstock.com/video/clip-24455642-choice-1-2-different-options-pick-best>
- <https://apps.microsoft.com/detail/xpdc2rh70k22mn?hl=en-US&gl=US>

# Ideations

## Font & text choices:

- Easy-to-read fonts.
- Blox-like fonts that look like they're from the game.

## Colors:

- Bright, fun colors like neon yellow, blue, and green.
- Bright pink color for the popsicle stick.

## UI Elements:

- Jar for pulling sticks/3D animation of the players pulling the sticks.
- Track the games that have been played.
- Timer for each game.

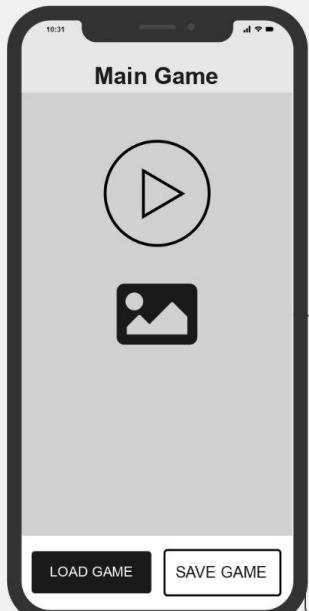
## Human tasks:

- Opening the virtual by clicking.
- Pulling two games from the jar.
  - Players will pull two sticks from the jar and choose which one to play.
- Add game titles.
- Share what game is selected using Discord.
- Cycle through these tasks by including game categories that are different.

# 02. LO-FI PROTOTYPES



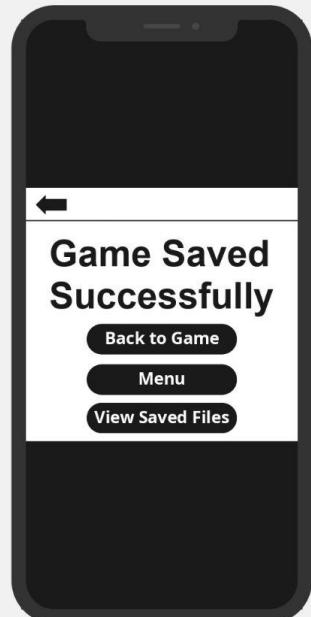
# UI WIDGETS



Widget came from brainstorming to save/load progress without disturbing gameplay.



Widgets came from the ideation step to have different saving process for different user needs.



Widget came from brainstorming how players will view, load, and delete save files.

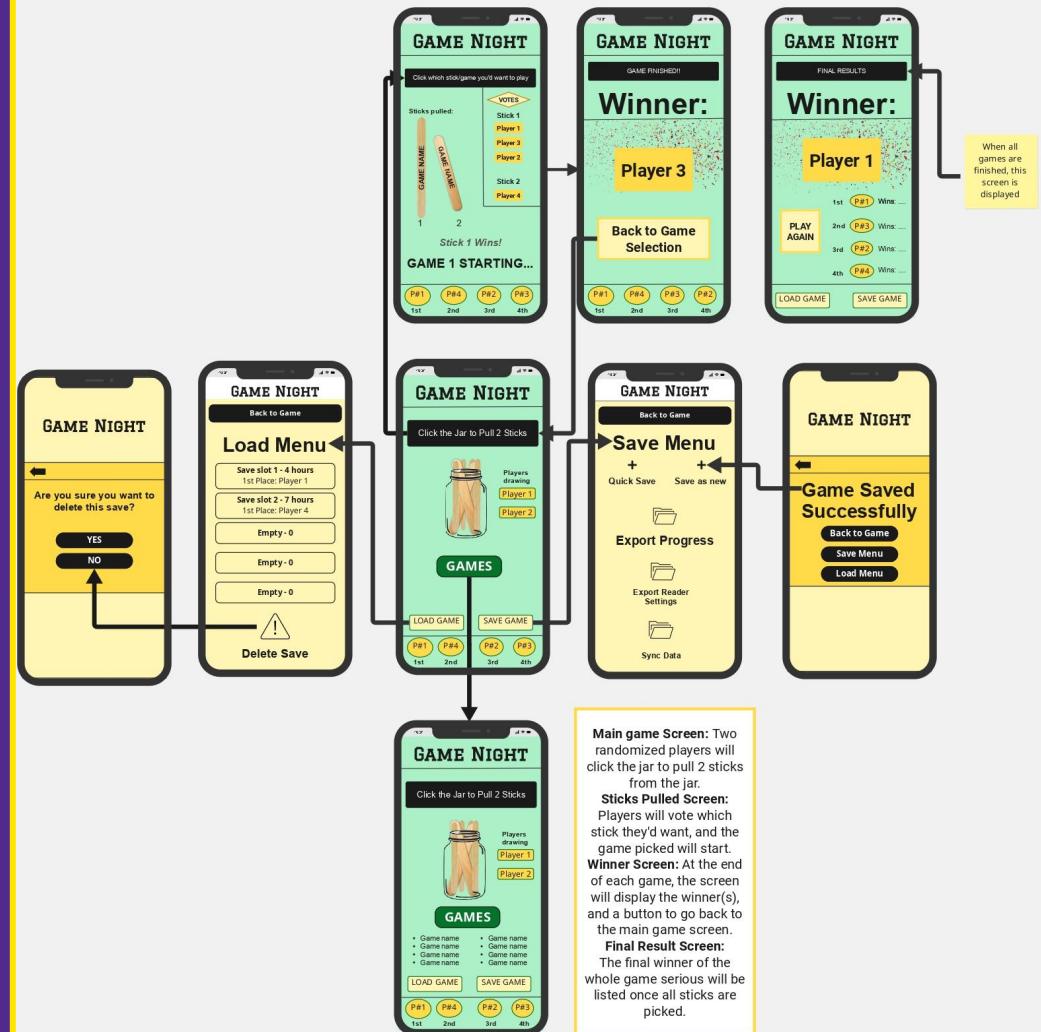
# 1ST LO-FI PROTOTYPE



# Heuristic Evaluation

- **Recognition Rather Than Recall:**
  - Incorporate a drop down menu displaying game names within the jar interface. That way that information is always visible and users don't have to memorize it.
- **Aesthetic and Minimalist Design:**
  - I'll use this to ensure that the design doesn't contain unnecessary information. For instance, "Save Game" and "Load Game" should appear only on the start and ending screens rather than on every widget.
- **Error Prevention:**
  - Implement confirmation pop-ups for critical actions, such as deleting saves, to prevent accidental loss of progress. Example: "Are you sure you want to delete this save? YES | NO".
- **Consistency and Standards:**
  - Maintain a uniform design by using consistent colors, shapes, and layouts across all widgets. Additionally, ensure a logical and predictable order in which widgets are presented to users.

# Lo-Fi Prototypes after Heuristic Evaluation



# Interview

03.



# Questions/Coding Categories

1. Does the design (color and fonts) improve the widgets? Why or why not?
2. Are there too many buttons or widgets on each screen?
3. Is this app useful for deciding what games to play?
4. What is confusing about these widgets?
5. Give a story of playing games with your friends and what was the most memorizing thing from it?
6. How was it navigating between the different widgets/screens?

**Aesthetic & Minimalist Design** – Removing unnecessary buttons from screens where they are not needed.

**Recognition Rather Than Recall** – Users might not remember the games, which suggests the need for a visible game list.

**Navigation & Guidance** – Issues with understanding what happens next, indicating a need for arrows to show which widget/screen goes after one.

**Error Prevention** – There is a need for confirmation pop-ups when deleting saves.

**Consistency and Standards** – The same color palette is needed for each widget so it stays consistent. Positive feedback on the simplicity and visual appeal of the design.

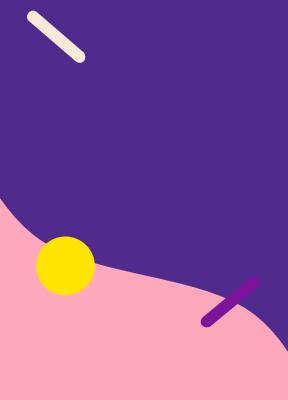
# Initial Categories

	Preconditions	Phenomena	Strategies	Consequences	[optional] Context
Category 1: Clarity of Instructions	"series will be listed once all sticks are picked. Fun!"	"I guess it just wasn't clear at first but now that you've explained it"	???	Having to explain the prototype sometimes which would provide a better understanding after. "I guess it just wasn't clear at first but now that you've explained it"	Overall instructions could be a little more clear
Category 2: Readability & Visual Design	???	"For me personally I think it was a little bit difficult. I think it's cause like I'm not like a super big gamer so it's not as intuitive for me but I think like the arrows you put"	"it makes it like easier for you to see the design and easier"	"I like how there's like a picture of confetti in the back for the winner And again, I really like the colors. I think you should keep the colors the way they are the contrast between the green and the yellow." "perfectly balanced. I don't think there are too many Overloaded widgets"	using contrast improves readability of the prototype
Category 3: Feedback	???	"OK, OK so when it says win player three what does that mean? Does that mean like the game that player three wants to play is what they're gonna play or like"	Music, emotes, animations as feedback: "a ding sound or something so they know" "I think that's great even just like a loading sound for one to get like the first like when sticks are being pulled" "the music on the screen and like the movement like what happens on the screen in Fortnite when you like emote"	"the most memorable thing is just like the emotes and choosing like skins cause in Fortnite" "I do feel like the confetti in the background I'm assuming that's gonna be animated maybe" "I think the game was great. I like the prototype and it looks pretty good."	Feedback was inspired by the Interviewee's Fortnite experience
Category 4: Player freedom	???	???	"choosing like skins..." "you can emote"	Player enjoyment: "I think the game was great. I like the prototype and it looks pretty good."	???
Plans:	Using more experienced gamers/designers to interview, observe in person instead of online to capture phenomena and strategies in real time and how they interact with certain buttons/actions in my prototype, prompt more follow up questions that are more specific to preconditions and any other empty spots for each category.		Theory:	"Users have trouble with the clarity of the instructions, but the contrast between colors improves readability, and the visual design helps reduce overload and makes the interface easier to read."	

# 04. HTML PROTOTYPE



# 1ST HTML PROTOTYPE



## GAME NIGHT

Click the Jar to Pull 2 Sticks



Players drawing

Player 1

Player 2

LOAD GAME

SAVE GAME

# ALTERNATIVE PROTOTYPE

The image displays four mobile phone screens arranged horizontally, representing an alternative prototype for a game night application. Each screen has a black header bar with the text "GAME NIGHT" in white. The first three screens have a black footer bar with the text "Back to Game" in white. The fourth screen has a yellow footer bar with the text "Back to Game" in black.

- Screen 1: GAME ENDED**
  - Header: GAME NIGHT
  - Header Bar: GAME ENDED
  - Content: Rate the Game, 5 star rating, FAVORITE button, Add Review button, SKIP button.
  - Footer: Back to Game
  - Callout: Game ended, rate the game (skip or pass) or favorite
- Screen 2: TRACKING**
  - Header: GAME NIGHT
  - Header Bar: TRACKING
  - Content: Games played: .....  
Game .. played (#) times  
Game .. played (#) times
  - Footer: Back to Game
  - Callout: Track the number of games you've played and what games
- Screen 3: FILTER GAMES**
  - Header: GAME NIGHT
  - Header Bar: FILTER GAMES
  - Content: Age Group, Categories, Favorites, Categories, Theme
  - Footer: Back to Game
  - Callout: Have players filter games based on certain things
- Screen 4: GAME RULES**
  - Header: GAME NIGHT
  - Header Bar: GAME RULES
  - Content: Game Picked: ...., Rules (represented by wavy lines)
  - Footer: Back to Game
  - Callout: When a game is picked, the rules for the game is displayed.

# 2nd HTML

1st Iteration

## GAME NIGHT

Click the jar to pull 2 sticks



Players drawing

Player 1

Player 2

Save Game

Load Game

2nd Iteration

## GAME NIGHT

Click the jar to pull 2 sticks



Players drawing

Player 1

Player 2

Save Game

Load Game

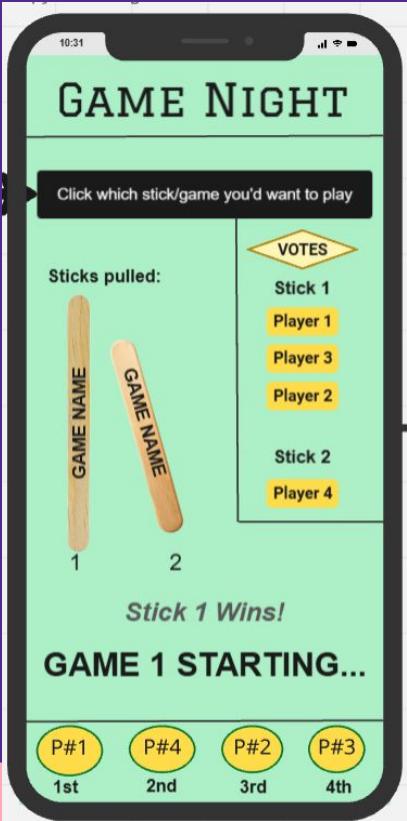


I added a black background to the heading “Click the jar to pull 2 sticks” to draw users’ attention and provide clear, visually prominent instructions. The Save Game and Load Game buttons now change to a dark orange color on hover both to indicate that they are clickable elements and to enhance visual appeal and readability.



Additionally, I restyled the Player Drawing buttons to appear less like interactive elements, signaling to users that they are not meant to be clicked. These buttons now change to a dark green on hover to maintain visual consistency without implying interactivity.

# 3rd HTML



→  
Lo-fi to Hi-fi prototype

A hi-fi prototype of the game night application. The interface is similar to the lo-fi version but with more polished design elements. It features a title 'GAME NIGHT' and a button to select a game. Below the button, it says 'Sticks pulled:' and shows two sticks labeled '1' and '2', each with 'GAME NAME' written on it. A 'VOTES' section follows, with a table showing the results for each stick:

Stick	Player
Stick 1	Player 1
Stick 1	Player 3
Stick 1	Player 2
Stick 2	Player 4

The message 'Stick 1 Wins!' is displayed in green at the bottom. Below it, 'GAME 1 STARTING...' is shown, followed by a large yellow button labeled 'Click to Start Game'. At the very bottom, there are four yellow circles labeled P#1, P#4, P#2, and P#3, each with a corresponding rank: 1st, 2nd, 3rd, and 4th.

## **Miller's Law:**

- Clustering player-related controls into clearly separated sections:
  - player buttons.
  - vote buttons.
  - winner display.
- Grouped voting elements under separate headings:
  - E.g., "Stick 1" and "Stick 2" added dividers between sections.

Hypothesis: If I visually group related elements and controls into smaller, meaningful clusters, then users will be able to navigate the app more efficiently, particularly during the processes of drawing sticks, voting, and the chosen results.

# 4th HTML

2nd Iteration

1st Iteration

## GAME NIGHT

Winner: Player 1

Back to Game Selection



## Game Night

GAME FINISHED!!

# Winner:

Player 1

Back to Game Selection

P#1 P#4 P#3 P#2  
1st 2nd 3rd 4th

## **Peak-End Law** - Change: The aesthetics of the winner screen.

- Add confetti in the background of the winner screen to add visual excitement
- Add more variety of colors.
- Add a score leaderboard at the bottom.
- Use bolder and larger fonts to emphasize the celebration of winning.

Since the Peak-End law suggests people judge an experience based on how they felt at its peak and its end, it's important to make sure my winner (end) screen is as aesthetically and user-engaging as the main (start) screen is.

Thus, the 2nd Iteration is different from the first iteration because I added the players' scores at the bottom and made the "Back to Game Selection" button more accurate to the lo-fi prototype.

# Now Playing...

## Game 1

Get ready to compete!

## 5th HTML

The “now playing” screen is just a placeholder to help users understand the purpose of the prototype, since implementing an actual game would be time-consuming and could raise copyright concerns. This screen gives users context about the main role of Game Night. It displays for 3 seconds before transitioning to the winner screen.

# 05. A/B TESTING



## Grounded Theory/Hypothesis

My grounded theory suggests: "Users have trouble with the clarity of the instructions, but the contrast between colors improves readability, and the visual design helps reduce overload and makes the interface easier to read."

### Hypothesis:

- Adding the jar image will improve visual recognition and user engagement
- Higher color contrast will improve readability
- Formatting buttons will decrease misclicks and task completion time

## Testing Methodology

What high-level variables are being tested and how do they relate to your grounded theory (categories) in progress as hypotheses:

- Qualitative Variables:
  - Aesthetic engagement of the page.
  - User experience, including the intuitiveness of the platform and the flow between screens.
- Quantitative Variables:
  - Measure the number of clicks/misclicks.
  - Measure the time spent on each screen.
  - Measure the paths users take throughout the app.

These variables are tied to my grounded theory, which suggests that "Users have trouble with the clarity of the instructions, but the contrast between colors improves readability, and the visual design helps reduce overload and makes the interface easier to read." Measuring the quantitative variables will provide data to identify areas where users experience difficulty with instruction clarity. The qualitative variables will help assess how a visually engaging and well-designed interface can enhance readability, improve the user experience, and support a smoother, more intuitive flow across screens.

What the operationalized independent (input) variables you will control:

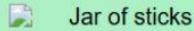
- Input:
  - Color contrast between the buttons and background to improve readability and accessibility.
  - Less clustered app.
  - Phone-like app.
- Output:
  - Clicks/Misclicks - track accidental clicks.
  - Measure how long it takes a user to finish a task (e.g., pulling two sticks).
  - User engagement - user enjoyment before & after the player clicks the jar.

# B Control

## A Control

### GAME NIGHT

Click the Jar to pull 2 sticks



Players drawing

Player 1

Player 2

LOAD GAME

SAVE GAME

### GAME NIGHT

Click the jar to pull 2 sticks



Players drawing

Player 1

Player 2

Save Game

Load Game

# Results

## Quantitative Results:

- *Number of clicks/misclicks* - 8 clicks (A) vs 5 clicks (B)
- *Time spent on screen* - 20s (A) vs 14s (B)

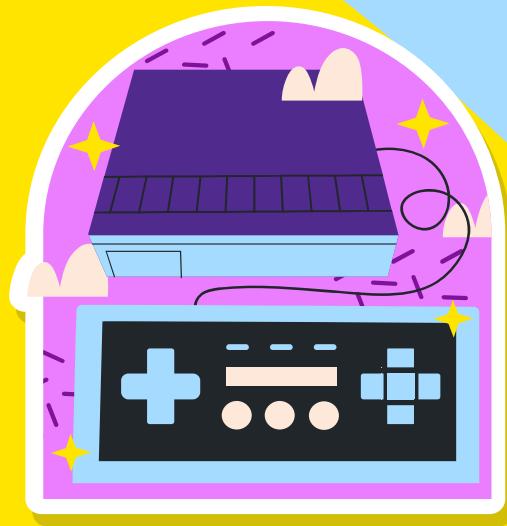
## Qualitative Results:

- *Aesthetic engagement* - Low Satisfaction (A) vs (B) High Satisfaction: a user said "seeing the popsicle jar made it clear what I have to click."
- *User experience* - Reported confusion (A) vs Flowed easily through the interface (B): users found that the contrasting colors and button format was "much easier to navigate."

## Data Summary:

- *Hypothesis confirmed*: The jar image, color contrast, and button formatting contributed to significant improvement in both quantitative and qualitative measures.
- *Input variables*: Using a less cluttered layout with better contrast provided better readability as predicted, and users reported being able to navigate easily with the familiar phone-like design.

# 06. FINAL PROJECT



## NAME NINH?

Click where the game you'd want to play

Mickey's outfit



NOTES

your t



DRK



Blue & Pink

GAME + STARTING

GO TO HOME PAGE

# THANKS!

Do you have any questions?

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