Dopamine!

Gacha game

Card gacha game
- Pull (gamble) random cards
  - Different types of packs
- Cards should follow a theme, kinda like pokemon is all monsters
  - maybe CS themed somehow
- Sell cards to get more chances at pulling
  - maybe a coin system for selling
  - alternative way of getting coins is needed though such as a daily given amount or something
- each card has arbitrary rarity
  - common, rare, epic, legendary
  - C, B, A, S, SS, SSR
  - Powell is SSR
- add imperfections to the cards for realistic experience
  - offsets, blur
  - creates more valuable cards within rarity classes
- combine cards for different cards
- has a library to see your collection
  - should show all cards that they haven't found as mystery like a ? in place of the card itself
  - incorporate card binder
- expandable
  - add stats to the cards
  - create a single player campaign
  - animations to give people the casino slot machine effect

Check the Preliminary research section for examples

CONS:

Bad: makes people addicted   (is this really a con?)

Bad: makes your attention span go down (is this really a con?)

design con: hard to draw

AI generated Powell card lol

I feel like the subtle and finer details matter a lot for this one. Things like the quality of the images, how engaging the animations are, and just the overall experience if the goal is to make a game that will keep someone hooked and continue playing.

Sound effects would be needed too i think for better experience

Seems like there will be a lot of views and interactions to handle
A card binder might have to be built into this one.
Also a good amount of work maybe be needed to make the cards and animations for them

Biggest difficulty with this one, as stated before, will be the special effects such as sound and visuals such as sparks when unpacking and sounds that go with all of that.

Intelligence!

Dictionary Cards(flash card)

- We translate random words or phrases from English to "other languages"
- The "other languages" being the languages spoken by our group members
- We have mandarin, Cantonese, Russian, Somali, Spanish, Vietnamese.
- Would be educational, and fun learning how different languages say different words.

google translate or deepl api

How well can someone learn a new language or new words in a language from flash cards?

-no grammar lessons = not good language learn
-may be difficult to produce accurate written translations for other group members

How would we implement this?
- Should include a card flip animation (like Quizlet)
- Language Selection menu (to specifically look at one language and not all of them)
- Button and Swipe to see the next card
- Audio option? to hear how the word is pronounced

How can we make this user-friendly?
- Add a dark mode, for people who can stand light backgrounds
- Each word/phrase should have its own color, that way it's clear to the users which
- make it into a game, high score, person with the most words memorized is on a leaderboard?
- Allow words to be translated from each other, not just from English

we should have zoom feature, single/list page, pre/next button.
extension- Guess the word game, and fill in the blanks(multiple choke)

Of course, apps like ours may exist already...

Also, we need to make sure the translations are correct and have no errors

Todo Board

- Todo App but with the additional feature that the user can arrange them on a board like a bulletin board to better visualize them
- Todo items are cards that have their title on the front side and extra details on the back side
- Potentially have subtasks under larger general tasks with the ability to check off smaller subtasks as they are completed
- Should be quick and easy to add and move around tasks

Some users may not find the card / board view that useful

clicking each card to get the todo item seems like a hassle

Might have to make it an infinite canvas if there are too many cards. Don't know how to make that
Also need some way to preserve the layout

Similar to Padlet: https://padlet.com/

oh no, I have trello flashbacks

Teaching sorting algorithms

- Interactive demo for teaching sorting algorithms by arranging playing cards
- In bubble sort demo, user is prompted each step whether to swap cards or not and the app will display a swapping animation
- In merge sort demo, the user is prompted which card to add first to merge two list of cards

The card motif could be being a bit stretched here.

Possible con: do we copy the online algorithm simulation sites already out there?
https://www.cs.usfca.edu/~galles/visualization/ComparisonSort.html
Another potential con: May be difficult to get the animations and visual aspects of the project working on different devices and browsers.
-Potentially complex animations required

Sorting (Bubble, Selection, Insertion, Merge, Quick, Counting, Radix) - VisuAlgo

Sorting is a very classic problem of reordering items (that can be compared, e.g., integers, floating-point numbers, strings, etc) of an array (or a list) in a certain order (increasing, non-decreasing (increasing or flat), decreasing, non-increasing (d...

Bubble Sort Game

Check your understanding of how bubble sort works with this interactive game.

Damn this website already made it
yep!

(Pokemon) Card Binder

- For collectors of <insert franchise> cards
- Stores their cards and displays them in a tabular layout
- Has searching, sorting, and filtering features

pokemon battles?

maybe flip over for metadata?

filters/sort by
- type
- recently added
- alphabetical
- moves?

Bad: possible legal battle against nintendo

iBad: If this is more than a card binder, i.e. pokemon battles, logic becomes insanely difficult given the time constraints

Pokémon Virtual Trading Card Binder
Pokémon and its trademarks are ©1995-2025 Nintendo, Creatures, and GAMEFREAK. Related media appearing on this site are the property of The Pokémon Company International, Inc. This is an unofficial site produced by Luma, who is neither affiliated with no...

Binder Forge - Binder Forge
Binder Forge is the ultimate online Pokemon binder. Organize, track, and showcase your collection with our all-in-one digital solution.

Build Your Perfect online pokemon card binder! - Artful Pokemon
Create a digital Pokémon card binder! Organize, manage, and showcase your collection online with our free and easy-to-use tool.

Memory Trainer

https://humanbenchmark.com/tests/memory

- Displays all cards facing the front
- Randomizes placement of cards
- Flips cards over
- The user will try to match two of the same cards until all cards are
- Successfully selecting two of the same card will "lock" the cards in place
- We can either draw the draw images or get ai generated images for the cards
- We can have levels to the game (easy, medium, hard) where easy has only a few cards to memorize
- if we have more time, we can expand on this to use power ups or tools to "peek" at a card or to give us more time

Pros:
- Easy to understand
- Expandable
Cons:
- Might be too basic

Is this short term memory only?

Memory - Brain training | Free online game | Helpful Games
Enhance your memory for free with this online memory card game. Flip the cards and match the tiles in pairs. This brain training game offers 30 difficulty levels.

Card Collection

https://www.card.fun/products

-any kind of card
same as card binder

how do we standardize? What if someone wants to make circular cards?
how about business card collection?

default card size, allow flexibility for special shape, should providing adapters.

https://airtable.com/appUedo9ChkwCEBz/shr87JKbT5scv0Y9g/tbImCZq2qRM4O3ObA

POLL/VOTE !

https://strawpoll.com/eNg6v5eEjgA

Title	Implementation (How har...	Simplicity	Viability (how appealing)	Creativity
Gacha	7.5	4	5	1
Flash Cards	3	3	3	3
Todo Board	7	2	3	6
Sorting Algs	5	6.5	2.5	7
Card Binder	4	2.5	2	2
Memory Game	2	2	3.5	2

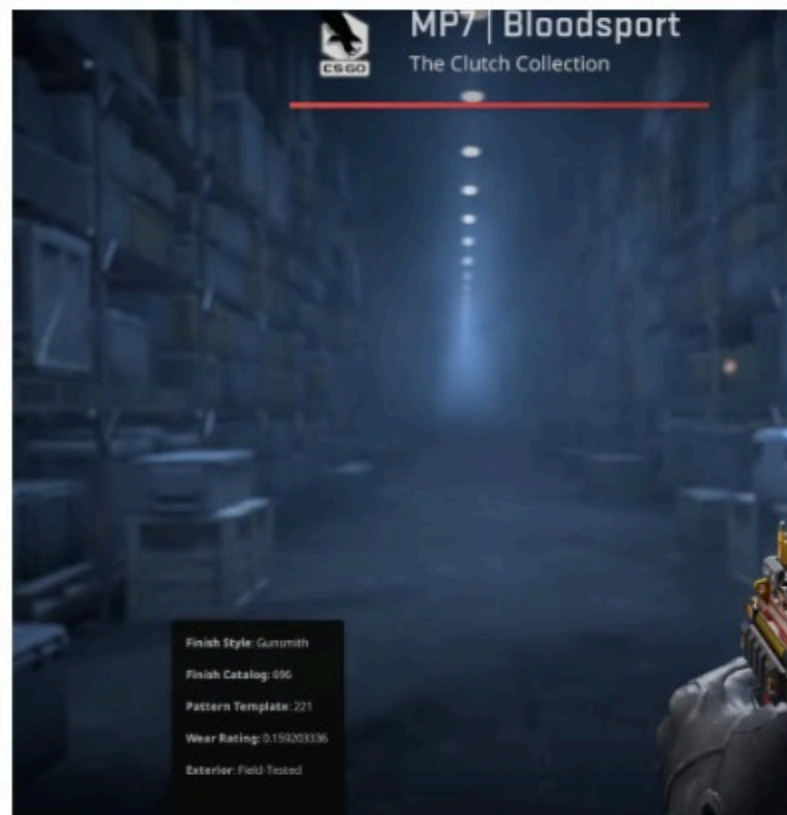https://convars.com/case/en

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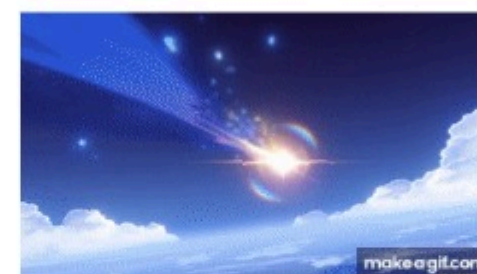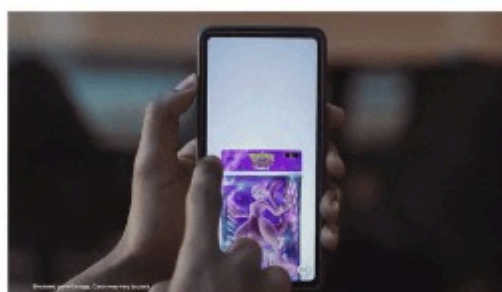
Info on the skin, Wear rating

Finish Style: Gunsmith

Finish Catalog: 696

Pattern Template: 221

Wear Rating: 0.159203336

Exterior: Field-Tested

Add Stats to the cards
- health, dmg
- maybe abilities

Fancy borders for higher rarity cards

Just made these rn with DALLE-3 for free, words bad but images are ok

Below are all AI generated cards