

Cats Card Game

Pre-requisites

1. Redis Instance (<https://redis.io/download>)
2. Nodejs v14

What is used in the project?

Server

- Typescript
- Redis (leaderboard using sorted set and gamestate using hashes)
- Express for api support:
 - GET /gamestate - Getting game state for user, user is fetched using username header.
 - PATCH /gamestate - Update a game state for a user, user is fetched using username header.
 - GET /leaderboard - Getting latest leaderboard.

Client

- React
- Redux Toolkit - For state management
- Axios for 3rd API Support
- Typescript
- Webpack

How to start the project

Server

- Assuming you have already installed redis and it is using default port.
- Go to `server` dir.
- Run `npm i` or `yarn`.
- Run `yarn start`.
- If everything is working fine, you should see `server listening` on console.
- Server will run on `9000` port.
- If something goes wrong, let me know, I will have a look at it.

Client

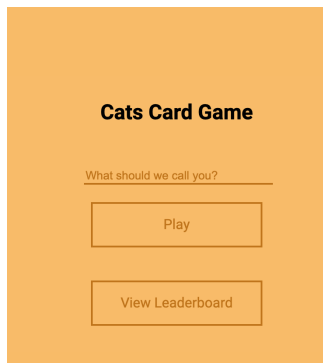
- Go to `client` dir.
- Run `npm i` or `yarn`.
- Run `yarn start`.
- UI will run on `3000` port.

Features

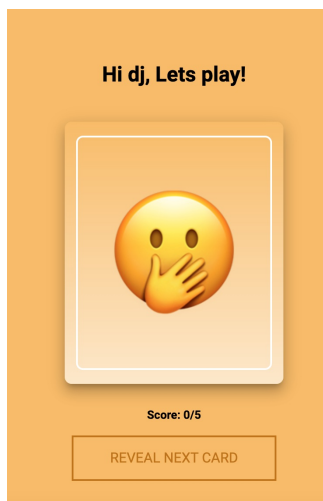
- Game states are saved in redis instance on every move by making a `PATCH /gamestate` call.
- Game states are retrieved everytime user enters username, if an uncompleted game is found, that game is loaded and user can continue play that. Game states are retrieved by making `GET /gamestate` call.
- UI has a real time Leaderboard, which uses polling method to update leaderboard every 5 seconds. It is updated by making `GET /leaderboard` call.
- Game Instructions can be found in INSTRUCTIONS section.
- Images used for cards are precached when the UI is loaded.

Instructions

You start by adding a user name, and hitting play



The first card appears is this one, its basically the back face of actual card.



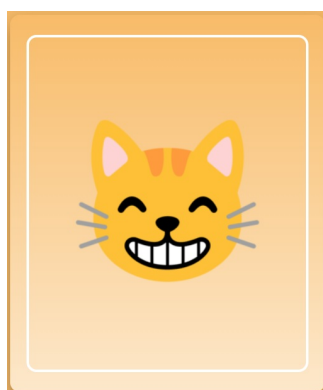
Types of Cards

- 5 Cat Cards
- 1 Bomb Card
- 1 Bomb Diffuse Card
- 1 Shuffle Card

Rules, are simple

- Collect 5 Cat Cards to win the game :D
- If you get a bomb card, you lose :(
- If you get a bomb diffuse card, you can use it to diffuse the bomb card.
- If you get a shuffle card, all your progress is reset, and you have to start over.

Cat Card



Bomb Card



Bomb Diffuse Card



Shuffle Card

