

# poolygotchi

Gamified Savings for PoolTogether

2022-11-16

Project Proposal v1.2

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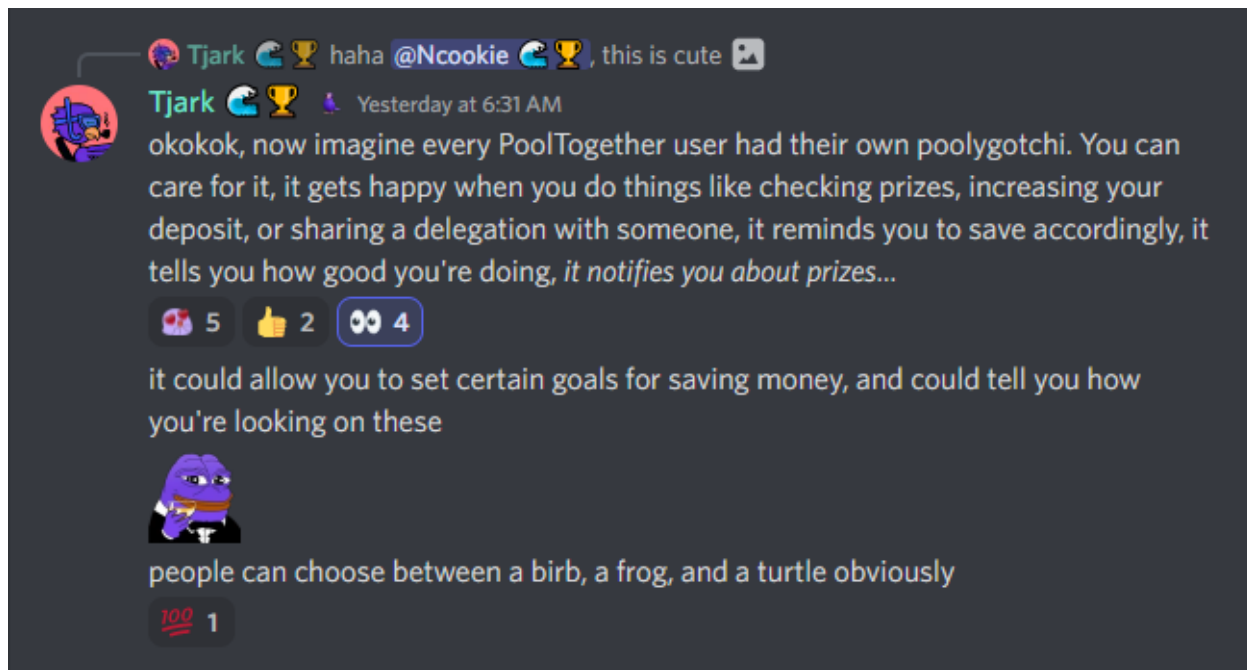
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## Overview



Poolygotchi is a completely decentralized, open-source gamification interface for the [PoolTogether](#) protocol with a design inspired by the original [Tamagotchi](#) devices. Poolygotchi incentivizes depositors to regularly save money by personifying their savings account as a cute digital pet. By setting a savings goal and meeting it, a player can improve their poolygotchi's mood and appearance, providing positive reinforcement for saving money. With a mobile-friendly interface, players can bring their digital friends everywhere they go, checking in on them frequently to ensure they are healthy or if they have any *special* announcements such as prizes or token rewards earned.

## Goals

1. Mobile friendly design downloadable as a progressive web app (PWA)
2. Adorable artwork to create tight bonds between players and their personified savings accounts
3. Prize claim alerts to players while in the app
4. Poolygotchi health factor that represents the player's ability to meet their personal savings goals (fully determined by on-chain data)
5. Design that honors the original [Tamagotchi](#) devices

6. Allow the naming of poolygotchi and the visiting of friends' poolygotchi by searching for their ENS name or wallet address

## Specifications

The web interface will be developed using Svelte to provide a completely static PWA that will be hosted on a domain (ex. poolygotchi.com) as well as on the IPFS network to ensure that the app is censorship resistant and accessible anywhere in the world.

### Svelte Static PWA

The following project template can be used as a starting point for the framework with the addition of an app manifest for PWA capabilities.

<https://github.com/trmid/svelte-static-spa>

### Health Factor


A player's poolygotchi health factor will be determined by how well they are meeting their personal savings goals. For example, if a player has set a goal to save **\$100 / week**, their poolygotchi's health will be determined by comparing the rate of their current deposits with their target rate.

*Ex.* If the player starts their goal on **January 1st** with a starting balance of **\$1200**, and they deposit **\$150** over the next week, their poolygotchi's health factor will be determined by the following:

```

starting_balance    = 1200
current_balance    = 1350
start_week         = 0
current_week       = 1
target_rate        = 100
actual_rate        = ( current_balance - starting_balance ) /
                        ( current_week - start_week )
                        = 150
HEALTH_FACTOR      = actual_rate / target_rate
                        = 1.5
  
```

A health factor over **1** means that the player's poolygotchi is healthy and a health factor below **1** indicates that the player's poolygotchi is unhealthy. This health factor will affect the



poolygotchi's visual appearance and could even change the mood of the poolygotchi depending on *how far from 1* the health factor is.

Visually, the exact numbers will not be shown to the player unless they choose to see them. Instead, players should interpret the health factor of their poolygotchi based off of its appearance and mood.

## On-Chain Data

The only additional data that will be stored on chain will be the player's current savings goal and the Poolygotchi Collectable Swag (see milestones). This data **does not** necessarily need to be stored on the same chain as the player's current deposit. Therefore a player's poolygotchi can remain independent of where their deposits are (ex. Optimism, Polygon, etc.). This would enable players to move their funds as needed without affecting the health factor of their digital friend.

All Poolygotchi contracts will be deployed on Optimism to keep gas fees low when setting goals and claiming swag.

## Milestones

### I. Web App Launch

The gamified interface is functional and launched as a web app to the public. Players can sign in with their wallet and set an initial goal on-chain to hatch their personal poolygotchi.

### II. Poolygotchi Swag (Phase 2)

By meeting their set goals, players will be eligible to mint different cosmetic swag for their digital pets to wear or use. This phase is not included in the current budget or scope and is included here as an example of where the project can go after launch.

## Budget

### Detailed Budget Breakdown

The full Poolygotchi Phase 1 budget breakdown is available on IPFS at the following CID or gateway link:

**CID:** QmXZ7Y6rCtMT5bE6rgV4xcg6py17Lh8Qn8JhLNgU5uKeco

**Gateway Link:** [Poolygotchi Budget Breakdown](#)

### Summary

The estimated budget consists of 4 parts: *development, artwork, game design, and quality assurance*. At the time of this proposal, these roles are assigned to the following discord users:

<b>Development:</b>	midpoint#8536
<b>Artwork:</b>	noiamgodzilla#7207
<b>Game Design:</b>	Tjark#0815
<b>Quality Assurance:</b>	Tjark#0815

The estimated hours for the project are as follows:

<b>Development:</b>	103
<b>Artwork:</b>	56
<b>Game Design:</b>	8
<b>Quality Assurance:</b>	12

The total grant request in OP tokens is as follows:

<b>Total Hours:</b>	179
<b>OP / Hour:</b>	53
<b>Total OP:</b>	9487

## Distribution

The budget shall be held in a 3-of-4 multisig of all contributing members as well as an additional community representative from PoolTogether Inc. The budget will be distributed to the determined roles based on tasks completed. Any changes to the distribution must be approved by 3 of the 4 multisig members.

## Conclusion

Poolygotchi will be the *first* complete gamification interface for the PoolTogether protocol that aims to provide a fun and engaging way for depositors to save money. Poolygotchi is designed to be aligned with players' own personal savings goals and enable them to form healthy interactions with the protocol. Poolygotchi will specifically enhance the Optimism ecosystem by providing core functionalities directly on the Optimism chain and bringing positive engagement to the network. Although Optimism will be the home of Poolygotchi, the game will continue to support all PoolTogether deposits regardless of the securing network, providing added value to the entire PoolTogether community without influencing which ecosystem they should trust with their deposits.