

Gitcoin Passport Plugin Outline (revised, 2nd version)

Bounty

- [ENS DAO Bounty: Gitcoin Passport plug-in for Discourse](#)

Purpose

Making sure that participants in DAO governance forums are real persons and not bots or duplicate accounts can be difficult for forum administrators. While we want to preserve user anonymity we also require degrees of resistance to Sybil attacks.

Solution

We propose building a Discourse forum plugin that will require a user to have and verify their unique humanity with a Gitcoin Passport to gain access to the forum as well as to do different things such as post or create new topics.

Implementation

Open-source

The plugin needs to be open-source so that other communities can use it as well.

Trust levels

The way Gitcoin Passport works is that you create your own passport by signing in with Ethereum, then verifying offchain and onchain identifiers (ie, I have a Twitter account, or I have spent more than 0.5 Eth on Gas, etc). Those “stamps” are then combined to determine a Unique Humanity score which is accessible via an API. The Unique Humanity score ranges from 0-100 and users can increase their passport trust rating by linking additional services with their passport (in a non-doxxing way). *This is handled by [Gitcoin Passport](#).*

The Unique Humanity score of a user’s passport is then readable via the API and we would require different levels of uniqueness for different types of forum access, e.g.

- Score above 12: Minimum requirement to create an account
- Score above 17: Minimum requirement to post in the forum

- Score above 20: Minimum requirement to create new topics in the forum
(*example trust levels*)

Where the score required is configurable by our Discourse administrators on three different levels:

1. **Forum-wide level:** the default global score required if no other levels exist
2. **Category-level:** score for a specific forum category. If this is set it has priority over **1**
3. **User-level:** score for individual users, if this is set it has priority over both **2** and **1**

Redirect to Gitcoin Passport

If a user does not have a Gitcoin Passport attached to their wallet, they will need to be redirected to [Gitcoin's website](#) to create one to continue.

Wallet sign-in

Gitcoin passport is a decentralized solution that is attached to a user's Ethereum wallet, and to use it users need to sign in with their Ethereum wallet (data is stored both on Ceramic, in IPFS, and on Gitcoin's backend to serve the API. Gitcoin will soon be launching on-chain scoring). We currently use another Discourse plugin for forum login called "Sign-In With Ethereum" which also requires this and reads the user's wallet address.

We would need the plugin to work alongside that plugin, preferably by reading the wallet address from it so that users don't need to sign in twice. It is fine if the Gitcoin Passport-plugin depends on the SIWE-plugin.

Resources:

<https://github.com/spruceid/discourse-siwe-auth>

<https://docs.passport.gitcoin.co>

<https://scorer.gitcoin.co>

Discourse badges

We would like Discourse badges for user's trust levels so that they can display them on their profile to encourage users to verify with more services than the baseline of what's required.

These badges don't have to be very granular, for instance:

- No badge
- Unique Humanity above a 10 badge
- Unique Humanity above a 20 badge
- Unique Humanity above a 30 badge
- Unique Humanity above a 40-60 badge

Resource: <https://docs.discourse.org/#tag/Badges/operation/createBadge>

n amount of time for existing users to create a Gitcoin Passport

For existing forum users without a Gitcoin Passport we would like to give them 180 days to create, verify and link a Gitcoin Passport and restrict their forum access to read-only before they do.