

API3DAO Monolith Assist

API3DAO x Curve Labs  Starting March 15 2021

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Background and Strategy

[Curve Labs](#), a Web3 design and development laboratory, partnered with key contributors of the API3DAO in Q3, 2020, providing advisory, development and support for API3's IDO. Curve Labs now aims to deepen its relationship with the API3DAO to work towards the long-term success of the API3DAO **with a focus and ongoing development of the DAO monolith.**

The aim of this proposal is to quickly spin up a development team beginning 3/15/2021 to accelerate the deployment of the API3DAO, aiming for release at the beginning of May.

⚠ Issues to Resolve

Interface

The [dump document](#) details well enough the outstanding interface issues that need to be addressed. We will initiate work to implement the [latest Figma wireframes](#). To this end, a senior and intermediate front-end developer will be allocated, along with a QA specialist. They will work in parallel with the back-end team to achieve the beginning of May release.

DAO

Our main focus is to deliver the DAO through a series of deployment sprints and testing.

The existing voting app has two functionalities to address spam protection:

- A minimum governable threshold of voting power is required to make a proposal (initial value: 0.1%)
- A user cannot make proposals less than 7 days apart

We will ensure the functionality of the custom app by conducting tests, preparing it for the audit, and coordinating deployment to the Aragon Package Manager. Once complete, we can deploy the DAO with this custom app.

Pool Contract

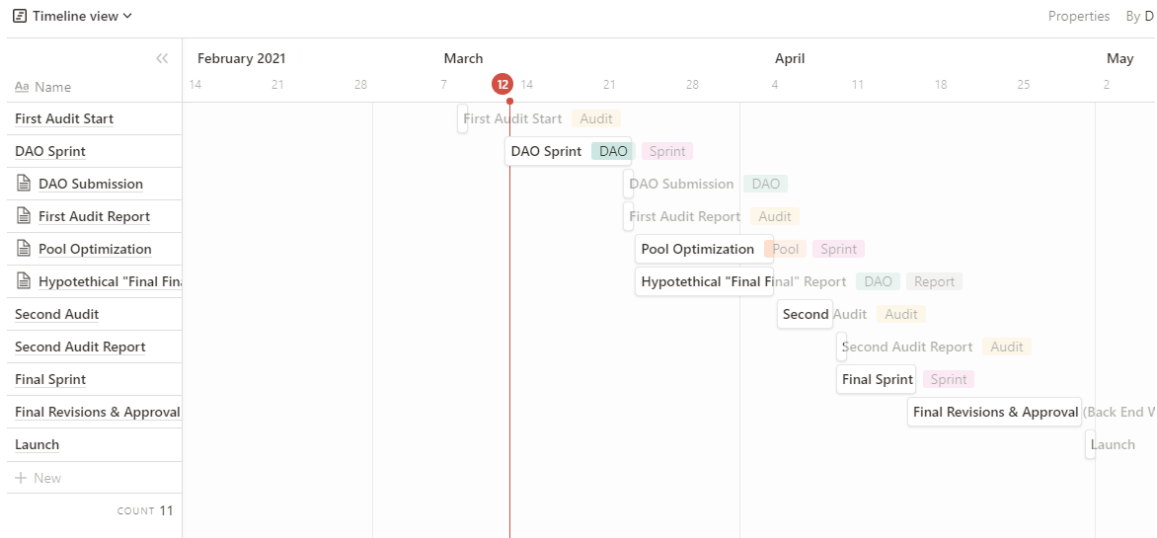
After tackling the DAO contract, we will focus on optimizing the pool contract.

We believe that re-organizing the current architecture will improve the readability of the contracts which could ease the auditing process and shrink the attack surface. The changes should not affect the existing test schedule and could likely be delivered before the second audit. Second improvement to the pool contract would be putting the `transferFrom` return values into a `require()` statement, using a `SafeERC20` library or have `API3Token` implementation reverting in case of error instead of returning false. Third recommendation would be upgrading the Solidity version from 0.6.x to 0.8.x which handles math overflows natively. Final recommendation regarding the pool contract, given its criticality, would be adding the pause functionality through the `DAOAgent`. It is important to highlight that it will empower DAO but will minimize the hack opportunities.

Timeline

A public timeline is available on Notion [here](#). Screenshot below:

DAO & Pool Timeline



Timeline will follow the audit deadlines which are expected to span 6-7 weeks. But essentially, we see this as a kickoff for recurring development, pushing the DAO and insurance monoliths forward on a multi-year basis.

Budget and Team

This budget is assuming there are no underlying or complex smart contract problems to resolve given the audit. If there is, additional back-end development capacity will need to be spun up. This recurring monthly budget will begin 3/15/2021.

Member(s)	FTEs	Role	Monthly cost
Renc Korzay	.5	Product mgmt. expert	\$4375
Ege [CV]	1	Front-end expert	\$8750
Bartu	.5	Interface QA intermediate	\$1900
Arseny [Github]	.5	Back-end expert	\$4375
Not yet assigned	1	Front-end intermediate	\$3800
Olivier [Github]	.25	Full stack, code review and advisory expert	\$2187.50
Curve Labs	25% of cost	Curve Labs is a legally incorporated German limited liability corporation (GmbH) and as such incurs legal, operations, and mgmt costs.	\$6671.88
Subtotal			\$32,059.38
<i>Billed per API3's worker compensation guidelines, with the exception of the Lab.</i>			
<i>Other members of the Lab may be leveraged as needed for delivery purposes.</i>			