

Server Side JSON Generator for Treasury

This project aims to improve the SingularityNET Ambassador Program by

- developing a server-side solution for generating transaction JSON files

Our Current Problems

- **High Computational Demand:** Most Ambassador Operators lack the computational power needed to generate JSON files efficiently.
- **Limited Permissions Currently,** only hard-coded permissions can submit JSON files to the Treasury System, restricting flexibility and scalability.

Deliverables: (Key assets include)

- **Cloud-Based JSON Generation:** Shift JSON validation and generation from Excel to a cloud server, allowing operators to submit data tables to the server for processing.
- **API Integration:** Integrate Treasury Manager Excel with API requests
 - submitting data required for json building
 - receiving transaction hashes to confirm rewarded contributions
- **Error Messaging:** Implement visual cues and error messages in Treasury Manager Excel
 - indicate potential submission failures
 - Display potential transaction errors
- **Bundle Transaction Fitting:** Automatically divide large transactions into manageable parts to ensure we don't go over transaction size limits.
- **Documentation:** Update Treasury System Documentation
 - Updated Process Map for Data movement directions
<https://miro.com/app/board/uXjVOiDYnHs=?moveToWidget=3458764538795540538&cot=10>
 - New Excel Overview for Bundle Transaction Sheet
<https://miro.com/app/board/uXjVOiDYnHs=?moveToWidget=3458764531360759595&cot=10>
 - Update Data Mapping and Research Views
<https://miro.com/app/board/uXjVOiDYnHs=?moveToWidget=3458764547935316793&cot=10>

Estimated Cost to achieve the goal:

Treasury Guild Proposal Estimated Cost Calculator

This project uses **Treasury Automation WG** as Category to identify this project costs

Project Total Estimated Cost in Dollars	1500
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Benefits:

- **Improved Efficiency:** Faster and more reliable JSON generation, reducing the computational burden on individual operators.
- **Enhanced Flexibility:** Easier and permissionless contribution data submission process to the Treasury dApp
- **Better Management:** New status for contributions ("Submitted for transaction") to manage and track transactions before payment.

Team

Roles and Skills Required

Project Manager: Oversees project development and coordination.

- Facilitates Monthly Stand Up sessions
- Creates Monthly Development Report and next months action plan

Backend Developer: Develops the server-side JSON generator.

- Requires react knowledge (javascript)

Excel Developer: Enhances the Treasury Manager Excel for API integration.

- Requires VBS knowledge

Testers and Reviewers: Test and review project deliverables.

- Opportunity to be part of project development lifecycle and help prepare team for development tasks

How to get onboarded?

Express interest: Reach out in the SingularityNET Discord server Treasury Guild channel to express your interest in joining the Treasury Guild. <https://discord.gg/snet>

Join a meeting: Attend a meeting, where you will be briefed about the project goals, strategy, and current activities. This is also an opportunity for you to ask questions and clarify your role and responsibilities. Look for the Treasury Automation Workgroup meetings on the Ambassador Calendar. <https://calendar.google.com/calendar/embed?src=singularitynetambassadors%40gmail.com&ctz=UTC>

Roadmap

Initially we kick off with Proposal introduction.

Then we Distribute deliverables and Roles and Schedule date and time for monthly stand up sessions.

In the first phase we update documentation so that we have appropriate research and knowledge on exact things we need build and which order. This may require additional meetings at early stage.

In the second phase we start developing and after a month or two we should be testing deliverables.

We will use Treasury Operator Workgroup Sessions for testing

Documentation

Regular updates and detailed documentation will be maintained on the Miro Board and communicated through Discord channels. All team members will have access to the latest project information and can contribute to continuous improvement.

Miro Board: https://miro.com/app/board/uXjVOiDYnHs=