



ANASTASIA LABS

Proof of Achievement – Milestone 1

Summary and Highlights

Project Number 1100024

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Project Name: Lucid Evolution: Redefining Off-Chain Transactions in Cardano

URL: [Catalyst Proposal](#)

Introduction

This report outlines the achievements and developments of Lucid Evolution under **Milestone 1**, focusing on the transition and improvements from the original Lucid library.

The Lucid Evolution project is designed to enhance Cardano's off-chain transaction capabilities by integrating advanced features and addressing previous limitations.

Milestone 1 Objectives

- A List of all PRs that have not been reviewed or merged, including details such as PR number, title, author, and date created can be found
- A summary report highlighting the findings from the evaluation process, with specific mentions of issues addressed or improvements made can be found
- List with confirmation of updates made to the forked repository, showcasing changes such as commits, branches, or pull requests related to compatibility fixes and conflict resolution can be found
- Log or record of PRs that have been successfully reviewed, tested, and merged into the maintained fork can be found

Process Overview

The methodology involved reviewing pull requests from the original Lucid library, identifying which enhancements were already covered by our new approach, and addressing uncovered needs.

This process ensured that Lucid Evolution not only matched but surpassed the original library's capabilities.

Pull Requests (PRs) extracted from legacy Lucid library

PR Nr.	Date	Title	Submitter	Link
234	Nov 4, 2023	Stop Leaking Memory	yHSJ	Link
233	Nov 3, 2023	Fix memory leaks from Tx	joacohoyos	Link
231	Oct 30, 2023	Feat: chaining of txs	will-break-it	Link
220	Sep 6, 2023	Feat (Next.JS): Support server-side Next.JS usage	thaddeusdiamond	Link
219	Sep 3, 2023	Add Koios Provider to Lucid	edridudi	Link
218	Aug 29, 2023	Prototype Hydra provider	Piefayth	Link
217	Aug 28, 2023	Wallet from seed should query both base and enterprise addresses on signing	infrmtcs	Link
197	Jun 7, 2023	Fix typebox portable type annotation	solidsnakedev	Link
111	Oct 29, 2022	Add graphql provider	zachykling	Link

Evaluation Findings

Specific PRs from the legacy Lucid repository were addressed directly in Lucid Evolution or were found obsolete due to foundational improvements. As we have created Lucid-evolution from scratch a 1-1 match for every PR in the legacy repository would not be possible.

For example, the initial release preemptively fixed memory leaks addressed by PRs [234](#) and [233](#) due to the [CML library](#) fixes from dcSpark.

A case of a 1-1 match would be that Lucid-evolution addresses provide the right tools to handle the scalability needs of dApps in our ecosystem.

Together with popular providers like Maestro or Blockfrost the need for higher throughput can only be tackled with certain services such as a Koios provider. More information to our implementation regarding ([PR 219](#)) can be found under [here](#).

Community and Development Interaction

Lucid-evolution is created for the developers on Cardano, which means their feedback on our progress has been essential to determine the path we want to take forward during our development phase.

As it can be observed in our [Discord channel](#), we have been discussing, evaluating, and gathering feedback from our developer community and even prioritizing certain queries to fast-track features that are essential for their own projects. We appreciate everyone who has been a part of the Evolution and encourage contributions.

We want to create an atmosphere of collaborative efforts in addressing and integrating complex features and fixes.

Closed PRs Overview

We have closed numerous PRs in the Lucid Evolution repository, showcasing extensive development work. The exhaustive list of PRs can be found in the [Github repository](#) and also can be accessed [here](#).