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Subject: Technical Requirements – Milestone 2 Report of Catalyst Proposal

To satisfy the technical requirements of your Catalyst proposal, we suggest adding the following content to the Milestone 2 report of your proposal:

## **1. Treasury Smart Contract**

### **1.1 Gitlab repository link or code files for the smart contract**

As indicated in the Andamio roadmap, making open source the validators that control key platform functionalities under the hood (Treasury management, Project Management, Learning management, Credential issuing, Access control, etc.) is scheduled for Q4 2025 (see <https://www.andamio.io/roadmap>).

Nevertheless, Andamio makes the following resources available to the public (and especially to the developer community interested in building on top of Andamio), which demonstrate that:

- Andamio validators (smart contracts) are successfully integrated into the platform's key functions (Treasury management, Project Management, Learning management, Credential issuing, Access control, etc.) and live on mainnet, as evidenced by the reference application <https://app.andamio.io/>
- The validators are supported by sufficiently comprehensive documentation—enough to allow developers to begin building their own instance of Andamio with the same core functionalities as the reference application <https://app.andamio.io/>, known as the Andamio platform, operating under the hood (Treasury management, Project Management, Learning management, Credential issuing, Access control, etc.).

The following are the mentioned resources:

### 1.1.1 Andamio SDK

- <https://sdk.andamio.io/>
- <https://github.com/Andamio-Platform/node-sdk>

Once installed, the SDK allows retrieval and interaction with on-chain Andamio-specific data regulated by the validators. Especially note the following sections (source code in folder <https://github.com/Andamio-Platform/node-sdk/tree/main/src/provider/core/local-states/course>):

- <https://sdk.andamio.io/provider/core/local-states/course/assignment-state>
- <https://sdk.andamio.io/provider/core/local-states/course/course-state>
- <https://sdk.andamio.io/provider/core/local-states/course/module-ref>
- <https://sdk.andamio.io/provider/core/local-states/project/contributor-state>
- <https://sdk.andamio.io/provider/core/local-states/project/escrow>
- <https://sdk.andamio.io/provider/core/local-states/project/treasury>

These provide technical insight into the main interactions within the learning and contribution areas.

### 1.1.2 Andamio protocol validators, V1:

<https://docs.andamio.io/docs/protocol/v1/validators>

Describes the architecture of the Andamio validators.

### 1.1.3 Andamio protocol validators, V2:

<https://docs.andamio.io/docs/protocol/v2/validators>

Describes the improved architecture of Andamio's V1 validators.

### 1.1.4 Andamio API:

<https://andamio-dev.vercel.app/>

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## 1.2 Technical documentation describing the contract's functionality and integration with Andamio

The evidence requested in this section is provided in the references above:

- **1.2.1 Andamio protocol validators, V1:**  
<https://docs.andamio.io/docs/protocol/v1/validators>  
Describes the architecture of the Andamio validators.
  - **1.2.2 Andamio protocol validators, V2:**  
<https://docs.andamio.io/docs/protocol/v2/validators>  
Describes the improved architecture of Andamio's V1 validators.
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## 2. Andamio Blockchain Functionalities

### 2.1 Technical documentation detailing each implemented blockchain feature (smart contract functionality described)

The section <https://docs.andamio.io/docs/protocol> provides detailed technical information on the functionalities exhibited by the Andamio blockchain protocol.

### 2.2 Demo video or screenshots showcasing the functionality of each feature, including the completed work on learner access control

There are two main sources of direct evidence (beyond what screenshots and demo videos can attest to) that the functionalities described in the above resources are live and reliably delivering the expected service:

- The reference application <https://app.andamio.io/>
- Our sandbox <https://preprod.andamio.io/>: here, the first deployments and testing of new features are conducted before release to mainnet. This environment is recommended, as it allows experimentation with the latest (Beta) features using test Ada (without incurring real financial costs).

Additionally, Andamio has published the following demos on its official YouTube channel:

- [Submitting Assignments Made Easy - A Step by Step Guide for Andamio](#)
- [How to Enroll in a Course on Andamio | Step-by-Step Tutorial](#)
- [How to Claim Course Credentials on Andamio | Step-by-Step Tutorial](#)
- [How to Build a Project on Andamio](#)
- [What Can You Do with Andamio?](#)

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## Summary of Resources related:

### 1. Treasury Smart Contract

#### 1.1 Code & Repositories

- [Andamio SDK](#)
  - validator-driven states:
    - [Assignment State](#)
    - [Course State](#)
    - [Module Ref](#)
    - [Contributor State](#)
    - [Escrow](#)
    - [Treasury](#)
- [Andamio Node SDK \(GitHub\)](#)

#### 1.2 Protocol Validators & API

- [Validators V1](#) – architecture overview
- [Validators V2](#) – improved validator architecture
- [Andamio API](#)

Notes:

- Validators are already integrated into core platform functions (Treasury, Project Management, Learning Management, Credential Issuing, Access Control).
  - Live evidence available via reference app: [app.andamio.io](https://app.andamio.io)
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## 2. Andamio Blockchain Functionalities

### 2.1 Documentation

- [Protocol Documentation](#) – detailed technical descriptions of blockchain features

### 2.2 Live Demonstrations

- [Reference App](#) – production mainnet
- [Sandbox / Pre-prod](#) – beta features with test ADA

### 2.3 Video Demos (Official YouTube)

- [Submitting Assignments](#)
- [Course Enrollment](#)
- [Claiming Credentials](#)
- [Building a Project](#)
- [Andamio Overview](#)

Please do not hesitate to let me know if there is anything else I can support you with.

Sincerely,

**Sebastian Pabon**

Community Engagement

**Andamio**

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