

## **Project Closeout Report**

IoT NMKR Integration [Open Source] - URL:

<https://www.lidonation.com/en/proposals/iot-nmkr-integration-open-source-f10/reviews>

Project number:

1000097

Project Manager:

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Date project started:

03/09/2023

Date project completed:

22/07/2024

### **List of challenge KPIs**

1. Open Source Repository Establishment:

- A dedicated open-source repository was created on GitHub. This repository includes guidelines, usage instructions, and code explanations.

2. Documentation Quality:

- Comprehensive documentation was provided, including structured directories, code samples, examples, and detailed guidelines for developers.

3. Library and Module Development:

- Developed and released necessary libraries and modules to facilitate interaction between ESP32 and the Cardano blockchain.

4. Community Engagement:

- Shared the repository on social media (@EIRaulito\_cnft on Twitter) and engaged with the community through feedback and suggestions on Twitter and Discord.

### **List of project KPIs**

1. Clear Project Scope and Objectives:

- Established and communicated clear project scope and objectives from the beginning.

2. Proof of Concept (PoC) Codebase:

- Developed a PoC codebase demonstrating the integration of NMKR's APIs with ESP32 devices.

3. Guideline and Instruction Documentation

- Provided well-documented guidelines and instructions for developers to integrate NMKR's APIs with ESP32 devices.

#### 4. Code Optimization:

- Optimized the code for efficiency and reliability, utilizing pull requests on GitHub to ensure continuous improvement.

#### **Key achievements**

- Community Feedback: Received and incorporated feedback from users via comments on Twitter and direct messages on Discord, ensuring the project met user needs and expectations.
- Open Source Collaboration: Successfully fostered a collaborative environment on GitHub, where contributions and improvements were made by the community.

#### **Key learnings**

- Importance of Documentation: Detailed and clear documentation is crucial for the adoption and understanding of open-source projects.
- Community Engagement: Regular interaction and feedback from the community can significantly enhance the project's development and usability.
- Continuous Improvement: Leveraging community input and iterative improvements are key to maintaining a high-quality codebase.
- Keep improving: It's not just important that the code works, but what matters is that users are able to replicate the project

#### **Next steps for the product or service developed**

- Beta Testing: The project is ready for beta testing by the community to identify and fix any remaining issues.
- Expansion of Features: Plan to add more features and capabilities based on community suggestions and evolving requirements.
- Promotion and Outreach: Increase visibility and adoption by promoting the project through various channels and engaging with potential users and contributors.

#### Final thoughts/comments

The IoT NMKR Integration project has successfully established a solid foundation for integrating NMKR's APIs with ESP32 devices. Cardano is now ready for real IoT applications with serious electronic devices.

#### Links to other relevant project sources or documents

- GitHub Repository:

<https://github.com/elRaulito/IoT-NMKR-integration-Open-Source-/blob/main/README.md>

- Twitter Announcement: [https://x.com/EIRaulito\\_cnft/status/1815079483663319227](https://x.com/EIRaulito_cnft/status/1815079483663319227)

- IdeaScale/Fund Project URL:

<https://projectcatalyst.io/funds/10/f10-building-on-nmkr/iot-nmkr-integration-open-source>