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 (@ElRaulito_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/ElRaulito_cnft/status/1815079483663319227
- IdeaScale/Fund Project URL: https://projectcatalyst.io/funds/10/f10-building-on-nmkr/iot-nmkr-integration-open-source
-Closeout video: https://youtu.be/nloG5oBairo?feature=shared