Training Report

Software Development Teacher Training

Venue: ETP Nyarurema

Prepared by: Edison Uwihanganye & Obed Uwihanganye

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Executive Summary

This report outlines the successful completion of the Software Development Teacher Training program at ETP Nyarurema. The program, aimed at enhancing technical and pedagogical skills, was conducted in collaboration with N@tcom and concluded with all planned modules delivered effectively.

Program Overview

Training Objectives:

- - Equip teachers with advanced software development skills.
- - Enhance their ability to teach and mentor students in modern technologies.

Participants: 6 teachers.

Duration: 18/10/2024 – 24/10/2024.

Modules Completed

- NoSQL Databases: Overview of NoSQL principles and practical sessions on MongoDB.
- Backend Development with Node.js: RESTful API design, authentication, and database integration.
- Introduction to Blockchain: Fundamentals of blockchain and hands-on creation of smart contracts.
- Frontend Development with React.js: Component-based architecture and state management using React hooks.
- Mobile App Development with Flutter: Building cross-platform applications and responsive UI design.
- Machine Learning Basics: Introduction to concepts and development of basic ML models with Python.
- DevOps Essentials: CI/CD principles and tools like GitHub Actions and Docker.

Training Progress

The program began under the leadership of Edison Uwihanganye. Midway, leadership transitioned to Obed Uwihanganye due to scheduling constraints. This transition was seamless and ensured the training continued without interruptions.

Key Achievements

- All modules completed as scheduled.
- Teachers demonstrated substantial improvement in technical expertise.
- Participants successfully developed working projects, showcasing applied learning.
- Strengthened confidence in teaching advanced software development concepts.

Challenges and Resolutions

1. Scheduling Conflicts: Addressed by delegating leadership to Obed Uwihanganye.

2. Limited Technical Resources: Supplemented with additional training materials for self-study.

Participant Feedback

- - 100% Satisfaction: All participants reported the training as highly beneficial.
- - Requests for extend time

Recommendations for Future Training

- Extend training duration for in-depth exploration of advanced topics.
- Incorporate follow-up support sessions to reinforce learning.
- Offer tailored training paths for specialized topics to cater to diverse participant needs.

Conclusion

The Software Development Teacher Training program at ETP Nyarurema was a resounding success. The collaborative effort ensured participants are now well-prepared to deliver high-quality instruction in software development.

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