

# Monthly Report: Backend Development

**Prepared by:** Ron B. Nyonje.

**Date:** 1/08/2024.

**Reporting Period:** 1/07/2024 to 1/08/2024.

## Overview

This report summarizes the activities in backend programming over the past month. The focus has been on implementing new features and addressing bugs to enhance overall application functionality.

## Key Activities

### 1. Feature Development

- **User Authentication Module:** Successfully implemented a new user authentication module, including OAuth 2.0 integration, which improved security and user experience.
- **API Endpoints:** Developed five new RESTful API endpoints for retrieving journals together with their respective volumes hence streamlined frontend-backend communication.
- **Code base:** <https://github.com/ronnyonjetechnology/AfricanJournalVisibility>

### 2. Performance Optimization

- **Database Optimization:** Conducted an in-depth analysis of database queries, resulting in the optimization of several queries that improved response times by approximately.
- **Caching Implementation:** Implemented caching strategies using Redis, reducing load times for frequently accessed data.

### 3. Collaboration

- **Team Collaboration:** Collaborated with Mike to ensure seamless integration of new features and support for any backend-related queries.

## Conclusion

Overall, the past month has been productive, with significant progress made in feature development and system optimization. Continued focus on collaboration and addressing challenges will help maintain momentum and achieve upcoming goals.

# INTERNSHIP BILLING

Name: RON NYONJE

Signature: \_\_\_\_\_

Department: RRCS

Supervisor Name: Dr. Julius Kirimi Sindi

Period worked: 1 MONTH

Signature: \_\_\_\_\_

Amount: \_\_\_\_\_

Authorizing Officer: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Date: \_\_\_\_\_