



## MONTHLY REPORT

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<b>Specialization</b>	Full stack Development		
<b>Allocated companies</b>	Data Systems Rwanda LOCATED on MAKUZA		
<b>Project name</b>	School management system	<b>For the month of</b>	July

### About This Report:

This report outlines the deliverables and activities for the School Management System project during the internship period. It includes the monthly progress, challenges faced, opportunities identified, and plans for the upcoming month.

### Project: School Management System Technologies:

- Backend: Node.js
- Frontend: React.js & Tailwind CSS

### Progress per Deliverable:

#### Deliverable 1: Backend Logic for School Management System

- Developed the complete backend logic, including core functionalities for managing user data, course content, student enrollment, and project submissions.
- Implemented all required endpoints for CRUD operations, user authentication, and dynamic role-based access control.
- Integrated a middleware for managing user activity status to ensure only active users can log in, particularly for school users.

## **Deliverable 2: Frontend Development for School Management System**

- Completed the front end with React.js and Tailwind CSS, creating interfaces for admins and school users.
- Implemented features for managing schools and projects, including adding, editing, deleting, and viewing project statuses.

### **Challenges or Opportunities:**

#### **Challenges:**

- **Role-Based Access Control:** Ensuring correct access and permissions for different roles (admin, school users) was complex and required careful implementation.
- **Syncing Active Status:** Maintaining synchronization between the school's active status and the corresponding user account required additional logic and validation.

#### **Opportunities:**

- **Enhanced User Experience:** The completed front end allows for a streamlined and user-friendly experience, with room for further enhancements based on user feedback.
- **System Optimization:** With the backend in place, there is potential to optimize performance, improve database queries, and ensure scalability for future growth.

### **Plan for the Next Month:**

1. **Testing and Feedback:**
  - Conduct thorough testing of all system components to identify and fix issues.
  - Gather feedback from potential users and stakeholders to refine functionalities.
2. **Frontend Enhancements:**
  - Develop additional features as needed based on feedback.
  - Ensure all components are responsive and compatible across devices.
3. **Backend Optimization:**
  - Review and optimize backend performance.
  - Implement improvements to ensure the system can handle increased usage.

**Current Status:**

All tasks for the School Management System project have been completed and evaluated by the team leader. The system has been accepted, and I am now awaiting the next set of tasks.