SCHOOL OF ICT

DEPARTMENT OF COMPUTER AND SOFTWARE ENGINEERING

ACADEMIC YEAR: 2021-2022

LOG BOOK

Name of student: …**BIZIYAREMYE ALPHOSNSE**……Reg. No……**220011657**…..

Department/Programme: ……**COMPUTER AND SOFTWARE ENGINEERING (CSE)**……………

Name of company/Organization…**RWANDA ENERGY GROUP (REG)**……

Weekly Report No: …**4**…From: …**20/02/2023**…..to…**25/02/2023**……..

Day/date	Brief description of work performed	No. of hours
Monday	Models for insert data in remain tables	3
20/02/2023	Controller and route to send data in tables	3
Tuesday	Perform crud operation for user table	3
21/02/2023	Perform crud operation for role and deptnt table	3
Wednesday	Uploading the file in request table	3
22/02/2023	Validating the types of file stored in system	3
Thursday	Controller for validating strong password	3
23/02/2023	Updating data stored in the system	3
Friday	Deleting data stored in the system	3
24/02/2023	Creating pivot role_user table	3
Saturday	Assign role to the user	
25/02/2023	Assign department to the user	
Total hours		30

Sequence of activities for main job/assignment		
Create data models for the remaining tables	Develop controllers and routes to send data to the tables	Implement CRUD operations for the user table
Implement CRUD operations for the role and department tables	Develop functionality to upload files in the request table	Implement functionality to update data stored in the system
Create a controller to validate the types of files stored in the system	Develop a controller for validating strong passwords	Implement functionality to delete data stored in the system
Create a pivot table to handle the assignment of roles to users and departments to users	Develop functionality to assign roles to users	Develop functionality to assign departments to users.

Note: Absence of trainee must be indicated on the log book

Details of main job

The main job involves building a web application that provides an interface for administrators to manage users, roles, departments, and requests. To achieve this, the developer needs to create models for each of these entities that will allow the application to store and retrieve data in a structured manner.

The developer also needs to create controllers and routes that will handle the various operations that the admin can perform, such as inserting new data, updating existing data, and deleting data from the tables. The CRUD functionality is essential here because it enables the admin to manipulate the data in a convenient and efficient manner.

In addition to CRUD functionality, the application also needs to be able to handle file uploads. Specifically, the request table should allow users to upload files, and the application should be able to validate that the uploaded files are of the correct type.

Security is also an essential consideration for the application. To ensure that user data is secure, the developer needs to create a controller that validates strong passwords. This controller should ensure that users are creating passwords that meet specific criteria, such as a minimum length or a requirement for including special characters.

Finally, to enable the assignment of roles and departments to users, the developer needs to create a pivot table that links users to the roles and departments they have been assigned. This table allows the admin to easily manage the relationships between users, roles, and departments.

Overall, the main job requires the development of a complex web application that incorporates multiple features and functions to enable efficient management of users, roles, departments, and requests.

Name of Training Officer: ………………………………………………………………………
Signature: …………………………………………………………………………………………
Checked date: …………………………………………………………………………………..