UNIVERSITY of RWANDA

CBE-HUYE CAMPUS

STUDENT'S WEEKLY LOG BOOK

Name of student: NSHIMIYIMANA Aldo

Reg. No: 221004695

Name of Company: University of Rwanda (Huye Campus)

Department: Business Information Technology (BIT)

Week beginning: 08/04/2024   **To:** 12/04/2024

	Brief description of work performed
Monday	*Holyday*
Tuesday	**GitHub Accounts and Trello & Joining Trello Board Setup:** • Create a GitHub account. • Create an account for Trello. • Join the team's Trello board for task management. • Getting familiar with the Trello board layout and workflow.
Wednesday	*Holyday*

Thursday	**Project Setup and Environment Configuration:**
	• Cloned project repository from GitHub to the local environment.
	    Configured environment variables and set up development configurations.
	• Verify that the project runs smoothly in the local development environment
	
	Design Review and Implementation Planning:
	• Reviewed project mockup designs in Figma.
	    Identified design elements for implementation.
	• Collaborated with the team to plan project implementation, define tasks, and outline a development timeline.

Friday	**Task Review and Documentation:** • Review all week's progress and ensure all tasks are on track. • Document any challenges faced and solutions found during the setup. • Update the Trello board with progress and any adjustments to the timeline. • Prepare for the tasks scheduled for Week 2 and ensure readiness for continued development

Note: *Absence of the trainee and the reason must be indicated in the log book*

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Week beginning: 15/04/2024   **To:** 19/04/2024

	Brief description of work performed
Monday	• Research and finalize the technology stack (Node.js, React, and database). • Set up the development environment (install Node.js, IDE, etc.).
Tuesday	• Set up the folder structure for both backend and frontend. • Initialize Git repository and set up version control.
Wednesday	• Set up authentication using JWT (JSON Web Tokens). • Implement authentication middleware in the backend. • Create login and registration forms in React.

Thursday	• Choose the database (e.g. PostgreSQL). • Set up the database and connect it to the backend. • Design the initial database schema for users, roles, and permissions.
Friday	• Create a basic React app with necessary dependencies.

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Name of the Organization/Company Supervisor: --

Signature: ---**Date:** --

Name of academic supervisor: ---

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Week beginning: 22/04/2024   **To:** 26/04/2024

	Brief description of work performed
Monday	• Set up routing for different pages. • Implement basic UI components (header, footer, etc.).
Tuesday	• Implement functionality to deactivate user accounts.
Wednesday	• Create API endpoint for deactivating users. • Update frontend to handle user deactivation
Thursday	• Implement user registration functionality in the frontend.
Friday	• Create API endpoints for user registration in the backend. Validate user input and handle errors.

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Name of Company: University of Rwanda (Huye Campus)

Department: Business Information Technology (BIT)

Week beginning: 28/04/2024   **To:** 03/05/2024

	Brief description of work performed
Monday	*Holyday*
Tuesday	• Write unit tests for user management functionalities. • Conduct manual testing to ensure all user-related features work as expected. • Fix any bugs or issues found during testing.
Wednesday	• Design UI for creating new roles. • Implement backend functionality for role creation. • Integrate role creation with the frontend.
Thursday	• Design UI for assigning roles to users. • Implement backend functionality for assigning roles. Integrate role assignment with the frontend
Friday	• Implement RBAC middleware in the backend to restrict access to certain routes. • Update frontend to display/hide features based on user role

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Name of Company: University of Rwanda (Huye Campus)

Department: Business Information Technology (BIT)

Week beginning: 06/05/2024 **To:** 10/05/2024

	Brief description of work performed
Monday	*Holyday*
Tuesday	• Design UI for editing existing roles. • Implement backend functionality for editing roles. • Integrate role editing with the frontend.
Wednesday	• Implement functionality to delete roles. • Create API endpoint for deleting roles. • Update frontend to handle role deletion.
Thursday	• Write unit tests for role management functionalities. • Conduct manual testing to ensure all role-related features work as expected. • Fix any bugs or issues found during testing.
Friday	• Design UI for the super admin dashboard. • Implement backend functionality to fetch statistics and data relevant to super admin. • Integrate the dashboard with the frontend.

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Department: Business Information Technology (BIT)

Week beginning: 13/05/2024   **To:** 17/05/2024

	Brief description of work performed
Monday	- Implement additional security measures such as CSRF protection, input validation, and rate limiting. - Review and update security configurations. - Conduct security testing and address any vulnerabilities.
Tuesday	- Identify performance bottlenecks in the application. - Optimize database queries and API endpoints. - Implement caching where applicable.
Wednesday	- Document the project architecture, APIs, and deployment process. - Create user manuals and guides for administrators. - Ensure documentation is up-to-date and comprehensive.

Thursday	- Conduct end-to-end testing to ensure all features work together seamlessly. - Perform load testing to assess application performance under heavy traffic. - Fix any remaining bugs or issues.
Friday	- Prepare the application for deployment to a production environment. - Deploy the application to a hosting service. - Monitor the deployment and address any issues that arise during the deployment process.

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