INDUSTRIAL ATTACHMENT REPORT CARRIED OUT AT WEBWISE INNOVATION FROM 21/7- 05/09 2025

DEPARTMENT: INFORMATION AND COMMUNICATION TECHNOLOGY

OPTION: E-COMMERCE

MODULE NAME: INDUSTRIAL ATTACHMENT PROGRAM

SUPERVISOR NAME: Mugabo Innocent

TELEPHONE NUMBER: +250787653323

TRAINEE'S NAME: Byishimo desire

REG NO: 22RP09174

ACADEMIC YEAR: 2024-2025

Date: September 26, 2025

DECLARATION

I, Byishimo desire, student in the Department of Information and Communication Technology, Option of E-commerce, hereby declare that this industrial attachment program report held at Webwise Innovations from 21st July 2025 to 5th September 2025 in academic year 2024-2025 is my own work and has never been presented or submitted to any other universities or institutions of higher learning for the award of any degree.

I also declare that this work is presented as my own contribution in partial execution of the academic requirements for the award of an advanced diploma from RP- Musanze after the completion of the 3rd Year in the E-commerce option.

Name: Byishimo desire   Signature: ....

Reg No: 22RP09174   Date: 26th September 2025

CERTIFICATION

This is to certify that Byishimo desire completed this industrial attachment at Webwise Innovations for 7 weeks, from 21st July 2025 to 5th September 2025, in partial fulfillment of the requirements for the award of advanced diploma in E-commerce, as it is required for every undergraduate third year student in RP- Musanze during the Academic year 2024/2025.

Company supervisor's name: Mugabo Innocent
Project Manager: ....
Date: ..../........../2025

RP- Musanze College supervisor's name: ....
Ass. Lecturer: ....
Date: ..../........../2025

DEDICATION

I dedicate this work to Almighty God, my family, my academic supervisors, my company supervisor, and all my colleagues who supported me during the industrial attachment program.

ACKNOWLEDGEMENT

First, I would like to thank the Almighty God for giving me strength and wisdom throughout my internship. I extend my sincere gratitude to RP- Musanze staff, my company supervisor Mr. Mugabo Innocent, and the entire staff of Webwise Innovations for their guidance and support. Special thanks to my family and classmates who encouraged me during the 7 weeks of industrial attachment.

ABSTRACT

The aim of the Industrial Attachment is to enhance knowledge and skills acquired in class by exposing students to real working environments. My attachment was carried out at Webwise Innovations for 7 weeks, from 21st July 2025 to 5th September 2025. During this period, I learned practical skills in requirements gathering, system analysis, UI/UX design, database design, frontend and backend development, as well as system testing and deployment. This report presents the activities performed, knowledge gained, challenges faced, and recommendations for improvement.

Contents

Table of figures

CHAPTER 1: INTRODUCTION TO WEBWISE INNOVATIONS

1.1 Introduction

Webwise Innovations is a technology company based in Rwanda that specializes in providing digital solutions and IT services. The company focuses on system development, web applications, e-commerce platforms, and software consultancy. It is committed to delivering innovative solutions that meet the needs of businesses and individuals.

1.2 Organization Structure

The company is structured into key departments including software development, database administration, design and user experience, IT support, and project management. Each department collaborates to ensure successful delivery of projects to clients.

1.3 Objectives of Internship at Webwise Innovations

The main objectives of my internship were:
- To gain practical experience in e-commerce and IT system development.
- To apply theoretical knowledge in real-world projects.
- To acquire teamwork, project management, and professional communication skills.
- To improve problem-solving and technical abilities in a workplace environment.

CHAPTER 2: PERFORMED ACTIVITIES DURING INDUSTRIAL ATTACHMENT

2.1. GENERAL ACTIVITIES UNDERTAKEN

During my internship at **Webwise Innovations**, I actively participated in various aspects of the company's software development projects. My responsibilities included assisting with requirements gathering, system analysis, UI/UX design, database design and management, frontend and backend development, testing, and deployment. I worked closely with the development team to ensure the smooth progress of ongoing projects and gained hands-on experience in the complete system development lifecycle.

2.2. SPECIFIC ACTIVITIES UNDERTAKEN

Some of the specific tasks I undertook during my internship included:

- **Requirements Gathering & Analysis**: Conducted interviews and discussions with clients to collect system requirements, documented functional and non-functional needs, and analyzed feasibility.
- **UI/UX Design**: Designed wireframes and prototypes using Figma, created interactive user interfaces, and revised designs based on feedback from supervisors and potential users.
- **Database Design & Management**: Designed entity-relationship diagrams (ERDs), created and normalized tables, wrote SQL queries, and integrated the database with backend systems.
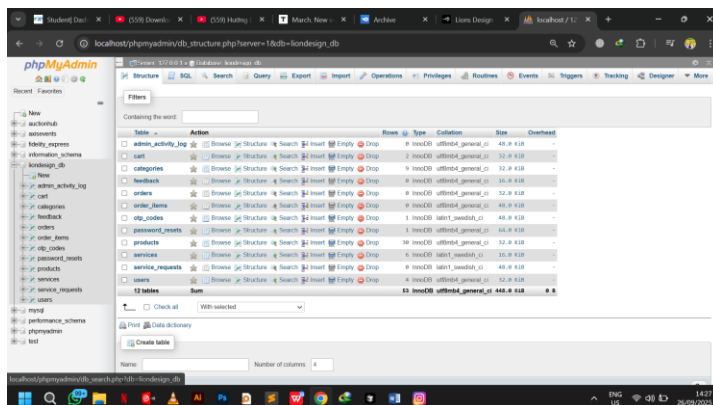

Figure 0-1

- **Frontend Development**: Developed web interfaces using HTML, CSS, JavaScript, and Bootstrap/Tailwind, ensuring responsiveness and cross-device compatibility.
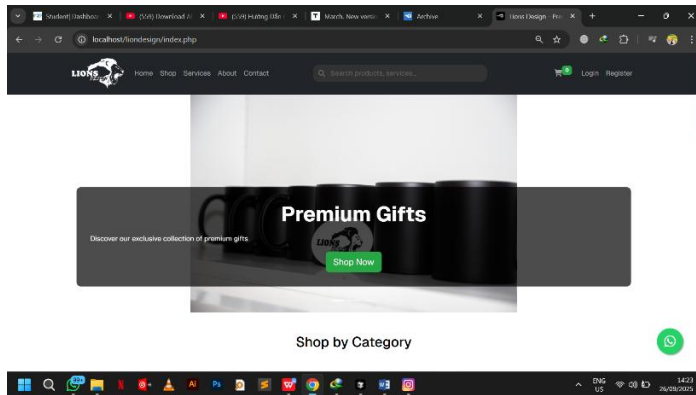

Figure 0-2

- **Backend Development**: Implemented core system functionalities using PHP and MySQL, including CRUD operations, authentication, session management, and API development.
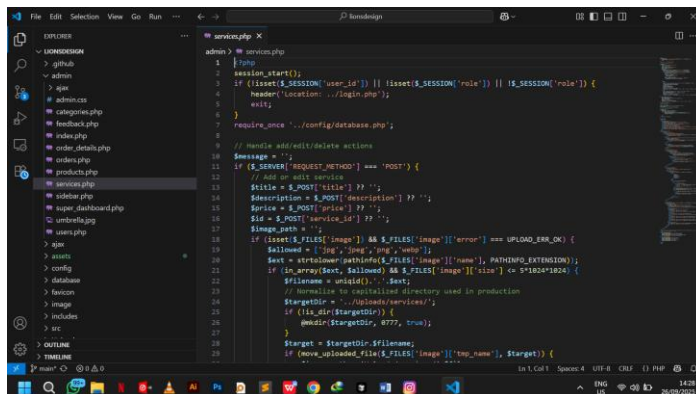

Figure 0-3

- **System Testing & Debugging**: Performed manual and automated tests, identified and fixed bugs, and ensured smooth integration between frontend and backend.
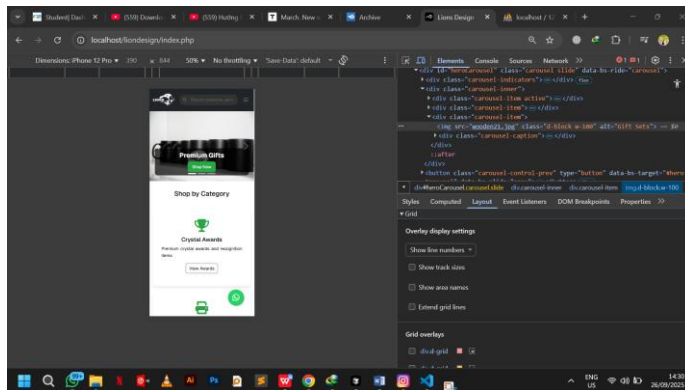
Figure 0-4

- **Deployment**: Deployed the project first on a local environment (XAMPP) and later on a live server, ensuring functionality and accessibility.
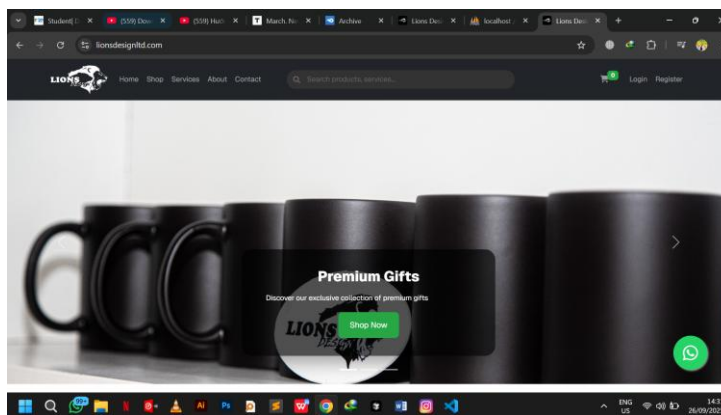

Figure 0-5

2.3. LEARNT KNOWLEDGE AND APPLIED SKILLS

Through my internship at Webwise Innovations, I gained valuable knowledge and applied skills in the field of **software and system development**. I learned about:

- Best practices in **requirements documentation and system analysis**.
- Designing **user-friendly and responsive interfaces** using modern design tools.
- Developing and managing **databases** and linking them with backend systems.
- Applying **frontend and backend development techniques** to build complete applications.

- Performing **system testing, debugging, and deployment** in both local and live environments.
- Enhancing my **problem-solving, teamwork, and communication skills** while working on real projects.

CHAPTER 3: INDUSTRIAL ATTACHMENT LIFE EXPERIENCES

3.1. WHAT I LEARNED DURING THE INDUSTRIAL ATTACHMENT PROGRAM

During my industrial attachment at Webwise Innovation, I gained valuable insights into the world of e-commerce and learned how to perform various tasks related to online marketplaces. Here are some of the key things I learned:

- **System Requirements & Analysis**: I learned how to gather system requirements from clients, analyze user needs, and prepare documentation for project development.

- **UI/UX Design**: I gained skills in designing wireframes and prototypes using tools like Figma. I also learned how to apply user feedback to improve designs and enhance user experience.

- **Database Management**: I learned how to design database schemas, create tables, establish relationships, and write SQL queries. I also gained experience in integrating databases with backend systems.

- **Frontend Development**: I practiced building user interfaces using HTML, CSS, and JavaScript, ensuring responsiveness and good user experience across different devices.

- **Backend Development**: I learned how to implement system functionalities such as CRUD operations, user authentication, role management, and API development using PHP/MySQL.

- **System Testing & Deployment**: I gained experience in both manual and automated testing, identifying bugs, and ensuring quality before deploying systems on local and live servers.

- **Teamwork & Communication**: I improved my collaboration skills by working with different departments, reporting to my supervisor, and presenting my progress clearly.

- **Problem-Solving & Adaptability**: I learned how to approach technical challenges, debug system errors, and quickly adapt to new tools and requirements.

- **Business Development**: I participated in activities to find new vendors and convince them to join the Webwise Innovation platform. This helped me understand the importance of building relationships and promoting the platform.

3.2 RELEVANT EXPERIENCES

In addition to the specific skills I learned, I also gained valuable experiences that will benefit me in my future career. Here are some of the most relevant experiences:

- **Teamwork:** I worked closely with other team members at Webwise Innovation, which helped me develop strong teamwork skills.

- **Problem-Solving:** I faced various challenges during my internship, which helped me improve my problem-solving abilities.

- **Adaptability:** The e-commerce industry is constantly changing, so it's important to be adaptable. I learned how to adapt to new situations and challenges.

- **Professionalism:** I learned the importance of professionalism in the workplace, from how I communicate with colleagues to how I present myself.

I believe that these experiences will be invaluable as I continue my education and pursue a career in e-commerce or a related field.

CHAPTER 4: GENERAL CONCLUSION AND RECOMMENDATIONS

4.1. SUMMARY

My internship at Webwise Innovation provided me with valuable insights into the world of e-commerce. I had the opportunity to learn about various aspects of the platform's operations, from product listing and vendor management to customer service and business development.

Through my experiences, I gained practical skills in e-commerce operations, customer communication, and vendor training. I also had the chance to contribute to Webwise Innovation's growth by assisting with vendor acquisition and market research.

4.2. CONCLUSION AND RECOMMENDATIONS

The internship at Webwise Innovation was a rewarding experience that allowed me to apply my academic knowledge to real-world scenarios. I am grateful for the opportunity to work with a dynamic and supportive team.

Based on my experiences, I believe that Webwise Innovation could benefit from the following recommendations:

● **Strengthen vendor support:** Consider providing additional resources and training to help vendors maximize their sales on the platform.

● **Enhance customer experience:** Explore ways to improve the overall customer experience, such as offering faster delivery options or more payment methods.

● **Expand product categories:** Diversify the product offerings on Webwise Innovation to attract a wider range of customers.

4.2.1. RECOMMENDATION

I recommend that RP- Musanze incorporate more practical e-commerce training into their curriculum. This would equip students with the necessary skills to succeed in the digital

marketplace. By offering hands-on experience, such as internships at platforms like Webwise Innovation, RP- Musanze can better prepare students for the demands of the e-commerce industry.

4.2.2. CONCLUSION

In conclusion, my internship at Webwise Innovation was a valuable learning experience that has equipped me with the skills and knowledge needed to succeed in the field of e-commerce. I am confident that the recommendations I have provided can contribute to Webwise Innovation's continued growth and success.

REFERENCES

https://mugaboinnox.wixsite.com/webwise-innovations/rw