

VAAL UNIVERSITY OF TECHNOLOGY FACULTY OF TECHNOLOGY WORKPLACE-BASED LEARNING COMPUTER SYSTEMS ENGINEERING



## Project Proposal

**Project Name:** Design and Implementation of a Secure Web-Based Internal Communication

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**Company:** MOEPI PUBLISHING

**WIL Coordinator:** L ROOS

## GENERAL INFORMATION – TRAINING SCHEDULE REPORT

### WBL (EIPRC4A)

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COMPANY NAME: DIVISION: TRAINING SITE/STREET ADDRESS:	Moepi Publishing DATA SCIENCE M41 & M44 THE INNOVATION CENTRE, PRETORIA 0087	NUMBER OF EMPLOYEES: 65 NUMBER OF STUDENTS IN TRAINING: 15 NUMBER OF ECSA REGISTERED STAFF:0 COMPANY'S SPECIALIZATION FIELD OR PRODUCTS SOFTWARE DEVELOPMENT
ASSESSOR INITIALS & SURNAME: E-MAIL:	TRB Masoeu tshidiso.masoeu@tekete.co.za	ACCREDITED ASSESSOR: Y / <u>N</u> CELL OR TELEPHONE:0763425352
WBL START DATE:	01 AUGUST 2025	END DATE:31 JANUARY 2025

STUDENT  
SIGNATURE:

ASSESSOR  
SIGNATURE:

VUT OFFICE  
USE:

*ACCEPTED*

*DECLINED*

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## **CHAPTER 1**

### **1.1 Background to the Project**

Many companies today use different tools like email, WhatsApp, and shared drives to communicate. Because these tools are scattered, messages can get lost, teamwork becomes harder, and productivity drops. The Internal Communication Portal is designed to bring everything together in one web-based platform for messages, announcements, and file sharing making it easier for departments to work together and share information.

### **1.2 Statement of the Problem**

The company doesn't have a single platform for communication. Employees use different tools that don't work together, which causes repeated messages, slow replies, and security risks. This lack of organization makes work less efficient and makes it harder to share information.

A safe, all-in-one platform is needed to manage all internal communication.

### **1.3 Main Objective and Specific Objective of the Project**

#### **Main Objective:**

To create and set up a secure, web-based communication system that helps company staff share information and work together more easily.

#### **Specific Objective:**

1. Build a user-friendly website for announcements, chatting, and file sharing.
2. Add a secure login system with different access levels for users.
3. Connect a database to store and manage users, messages, and announcements.
4. Include real-time alerts for new messages or updates.
5. Host the system on a cloud platform like Azure.

### **1.4 Significance of the Study**

The project will make internal communication faster, safer, and less dependent on outside tools like WhatsApp or email. It can also grow in the future to include features like data analysis, AI, or mobile access. This will benefit the company and serve as a useful example for future computer systems students.

### **1.5 Scope of the Study**

The project aims to create a secure web-based communication portal for internal use. It will have features like user login, chat, announcements, file sharing, and notifications. However, advanced features such as video calls, AI tools, or mobile apps will not be included in the first version but may be added later.