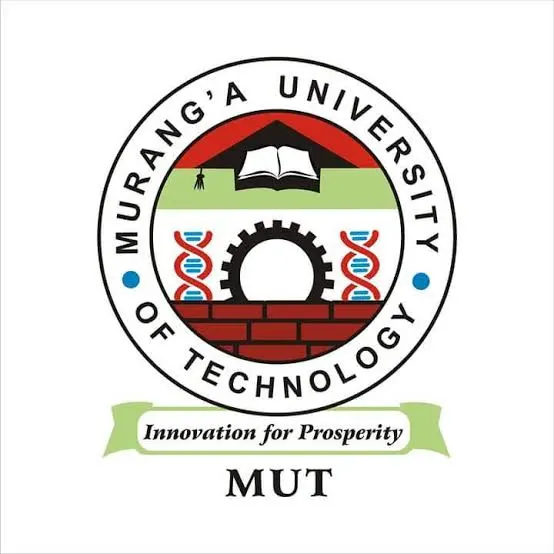
**MURANG’A UNIVERSITY OF TECHNOLOGY**

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**SCHOOL OF INFORMATION TECHNOLOGY(SCIT)**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**ONLINE SHOPPING MANAGEMENT SYSTEM**

**AUTHOR NAME:**

**REG NO:**

**DATE :**

**YEAR:**

**DECLARATION**

This is my original project and has never been presented before

Name: Signature:

Date:

**SUPERVISOR:**

I the undersigned do hereby certify that this is a true report for the project undertaken by the above named student under my supervision and that it has been submitted to Mount Kenya University with my approval.

**Supervisor’s name:**  **MR. ……………………………………….**

**Signature: …………………………… Date: ……….APRIL 2023**

# DEDICATION

This research project report is dedicated to my beloved self for having an enormous courage in believing that what I do can always make it beyond expectations. I do also dedicate this work to my close friend who offered me great moral support. Most importantly, I dedicate this project everyone out there who is struggling to make ends meet in their daily struggles.

**ACKNOWLEDGEMENTS**

I would like to acknowledge the sellers who allowed me to put their products in my website . I would also like to thank our lecturer for guiding us and showing us what we are supposed to do . I would also like to acknowledge my fellow sabacode team mates their thoughts and ideas in the making of my project really helped me in the system design phase.

**CHAPTER ONE**

INTRODUCTION

Overview of the current system

Students when they want to buy goods and items for their rental houses they have to manually go to the large mukuyu market to different sellers looking for what they want challenge is they might not really find the item they want or it may be too expensive for them to buy . The vendors at times have to bring their goods to the students such as selling them around the hostel and the goods at times end up not being bought because maybe at the moment the student might not have the cash or the student isn’t interested in the thing. This might be disappointing to both the student and the vendor because the student didn’t get what she or he wants to be sold and the vendor didn’t sell anything.

Limitations

1. The vendors don’t sell their goods
2. Its cumbersome because the student has to go to different places to search for what is needed
3. The good might not be there at the moment so it leads to waste of time and energy
4. Goods go unbought.

**1.PROBLEM DEFINITION**

The problem at hand is that when students around Murang’a university want to shop for something they go through the hustle of searching for it like for example you want to buy a pillow or cups you have to go to multiple vendors asking for the prices of these commodities so that after going through them all you finally choose where to buy at times you might find the thing you want to buy is not there so you go back home exhausted and unsatisfied.

Also at times the vendors bring their goods to the students such as selling them in the hostels but attimes the goods aren’t bought so the vendor goes back disappointed . So this online system students will be looking at their items online and then decide whether to buy or not such items include shoes, earings, socks . It’s a local online system that connects the student with the local vendors.

**2.THE PROPOSED SOLUTION**

There will be an online display of goods sold locally and their prices .Goods sold around Mukuyu market, Murang’a towm and Kiharu . Such that students will be logging in to the system and the goods will be displayed in categories for example bathroom utilities such as mops ,brushes ….etc ,clothes such as denims, durags , t-shirts, beddings such as mattress cover, pillows and bedsheets . Food stuffs and kibandas.

**3.PROPOSED PROJECT TITLE**

The project of the title is clearly stated: Murang’a university online shopping management system

**4. Scope of the system**

The online system will be used by students and also people generally who want to buy goods.

OBJECTIVES

The online system will;

1. Offer a platform where the students can check out the goods
2. The goods sold will be displayed on the system
3. The locations and the prices will also be included
4. One can also buy it online

BENEFITS OF THE SYSTEM

1.Easier to access

2. You can order online

3. Don’t have to go around comparing prices looking for something you want you can just check out the different places selling it and buy where you find best

4. It saves on time and energy

**JUSTIFICATION**

When comrades around the university want to move out they usually get the products from mukuyu market . These products include beds, chairs, sufurias, pan, racks, toilet brushes well several places sell the same products and it can be quite tedious to search for the goods from place to place comparing prices and quality of the item they want . The proposed system will ease in the search of products such that the products will be sold online it wll be a local jumia.

The proposed system is worth developing because;

1. It is faster and cheaper
2. Saves on time and energy
3. It is more efficient to work with
4. Saves on money spent on goods that might not be bought
5. Helps the seller know which goods are on demand

CONCLUSION

That the above proposed system will not only help the students but also the sellers and vendors.

**SCOPE**

This study focuses on the methods used for purchasing items specifically in mukuyu market.

**Risks and Mitigations**

Some of the risks that may affect this project are:

1. Security breaches – botnets may be used to make false purchases
2. Wrong purchase order- a customer might make a wrong purchase order which the goods can not be returned
3. Items not available in the inventory-the item required might not be in the online store

Mitigations

The above risks can be solved by:

1. Use of captcha method when authenticating to avoid botnets
2. Keying in the information twice to confirm
3. Check for the availability of a product and notifying the user.

CHAPTER2: LITERATURE REVIEW

A literature review is a critical evaluation and summary of existing scholarly research and other published sources on a particular topic or research question. It involves systematically searching, analyzing, and synthesizing published works, such as academic journal articles, books, and conference proceedings, to identify key themes, concepts, and gaps in the literature.

The purpose of a literature review is to provide an overview of the current state of knowledge on a topic, to identify areas where further research is needed, and to establish the theoretical framework and context for a research project or study. It can also help researchers to identify potential research questions, methods, and approaches, as well as to clarify the scope and focus of their own research.

ONLINE SHOPPING INFORMATION SYSTEM

# History of Online Shopping

* Electronic shopping was invented by an English inventor called **Michael Aldrich**. In **1979**, he invented the earliest form of e-commerce which allowed online transaction processing between business and customers, as well as between business and business.
* The invention of the first ever web browser, i.e. the **World Wide Web** in **1990** is the second major proponent of online shopping. Without an interconnected internet, there would be no online marketplace at all. We owe this marvellous invention called the ‘WWW’ to **Tim Berners Lee**. That man is the major reason why millions of people have access to the internet which hosts numerous e-commerce platforms.
* After the establishment of these two very important platforms, the expansion of online shopping was only imminent. In **1994**, **Netscape** developed an encryption-based internet security protocol called **SSL** – or Secure Sockets Layer. Just ask any ecommerce owner how important an SSL certificate is for business.
* Okay, we’ll break it down here. You see, an SSL makes it difficult or impossible for the exchange of information on the internet to be intercepted. When buying something online, you are required to send sensitive details directly to the online shop. This means that you’re sending private information like credit card details routers to servers. SSL ensures your data isn’t stored by any crooked servers on transmission.
* Because of its security, SSL is always required for basically all financial transactions online.
* **1995** welcomed the biggest transformation of online shopping. The first online marketplaces were established. First came **Amazon.com**, arguably the biggest online marketplace launched by **Jeff Bezos**—yup, the richest man in the world as of 2019 with an estimated net worth of $115 billion.
* Can’t be a monopoly, so **eBay.com** joined the party. At the time eBay was called AuctionWeb—good thing they changed the name.
* All these online marketplaces with no reliable payment gateway. It is **1998**, **PayPal**gets a full swing at the online payment system niche; quickly becomes a success.
* Once a dream, online shopping was now taking shape. Jack Ma, a failure in many things launched a very prominent Chinese marketplace in **1999** called **Alibaba.com**. You know the one.
* At the turn of the 21st century in **2000**, Google launched **Adwords**, an advertising service that allows sellers to place adverts in Google search results related to viewers’ search preference. In other words, **Google** connected sellers to buyers on a greater scale.
* Another subtle yet huge idea changed the world of online shopping forever. In **2004**, **Shopify**, a prominent online storefront service made it possible for low-capital sellers to set up online stores. Shopify is to online stores as WordPress is to websites.
* In **2006**, **PayPal**launched a new way for people to exchange money and buy things they want online directly from their cell phones.
* As of 2020, it’s clear to see that the entire internet is now a virtual shopping mall. With people choosing to carry out trades on Instagram, Whatsapp and Facebook, it’s safe to say that we are in the online shopping era.