**KAIMOSI FRIENDS UNIVERSITY**

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**KAFU E-VOTING SYSTEM.**

**School of Computing and Information Technology**

**Department of Information Technology and Informatics**

**BIT 411-INFORMATION TECHNOLOGY**

**PROJECT PROPOSAL**

**PROJECT TITLE: PATA**

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**REG NO: SIT/0929/2020**

A project proposal documentation submitted in partial fulfillment of the requirements for the award of the degree of Bachelor of Science in Information Technology of Kaimosi Friends University**.**

**October, 2023**

# DECLARATION

This project proposal documentation is my original work prepared with no other than the

indicated sources and support and has not been presented elsewhere for any other award.

Signature……………………… ……………………..Date……………………...

Denzel Gitonga

SIT/0929/2020

# CERTIFICATION

The undersigned certify that they have supervised and coordinated and hereby recommend for

acceptance of Kaimosi Friends University a proposal documentation entitled “PATA”

Signed………………………………………………….. Date……………………..

Mr. Hillan Rono

Department of Information Technology

School of Computing and Information Technology

Kaimosi Friends University

# ACKNOWLEDGEMENT

First and foremost, I would like to give thanks to the almighty God who has counted me worthy to develop this project till its completion.

I would like to express our sincere gratitude to all the individuals, and experts who have contributed their time, knowledge, and support to the development of the PATA project. Their invaluable insights and unwavering commitment have been instrumental in shaping the vision and objectives of this project.

I extend my heartfelt appreciation to the communities and individuals who have shared their experiences and perspectives on missing persons cases, which have provided the essential foundation for PATA's development.

Furthermore, we acknowledge the guidance and support of our academic and research institution, Kaimosi Friends University, which has played a significant role in nurturing our project and providing the necessary resources to turn our vision into reality.

Finally, I would like to thank our families and loved ones for their understanding and encouragement during the course of this project. Their unwavering support has been a constant source of motivation.

# DEDICATION

This project, PATA - the Missing Persons Reporting and Response System, is dedicated to all the individuals who have faced the distress of a missing loved one. Your strength, resilience, and hope have been the driving force behind this endeavor. May PATA stand as a beacon of support and compassion, embodying the belief that technology can be harnessed for the betterment of humanity in its most vulnerable moments.

I dedicate this project to the communities and individuals who come together to support one another during times of crisis, demonstrating the incredible power of unity and shared responsibility. Your unwavering commitment to helping one another serves as an inspiration to us all.

PATA is also dedicated to the idea that technology, when used with kindness and empathy, can create a positive impact on society. May it serve as a reminder that innovative solutions can bring hope, even in the face of daunting challenges.

This project is dedicated to the countless missing persons and their families, whose stories have touched our hearts and ignited our passion to make a difference. We are committed to working tirelessly to bring hope and reunite those who are lost with their loved ones.

Lastly, I dedicate this project to the belief that compassion and technology can intersect to address vital societal issues. It is a testament to the extraordinary possibilities that emerge when we come together to support one another, particularly during times of distress.

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# CHAPTER ONE: INTRODUCTION

## 1.1 Introduction

In our modern world, technology can help us solve pressing problems with care and compassion. Our project, PATA - the Missing Persons Reporting and Response System, is a response to a heart-wrenching issue: when someone I love goes missing, it's a painful and bewildering experience.

Traditional ways of reporting missing persons can be slow and unhelpful, leaving families in anguish and uncertainty, desperately wanting to reconnect with their missing loved ones.

PATA was born from the need for a simple and kind solution. It's here to make reporting missing persons easier, to speed up the response, and to give hope to those searching for their missing loved ones. By using modern technology and a deep sense of understanding, PATA shows the amazing potential of technology to help people in their most vulnerable moments. The next sections will dive deeper into the problem, our project's goals, and the difference I aim to make.

PATA is more than technology; it's a helping hand when it's needed most.

## 1.2 Problem Statement

The problem tackled with PATA is the distressing experience when someone you care about goes missing. It's a situation filled with confusion, sadness, and worry. Traditional ways of reporting missing people often take too long, and families are left feeling helpless, not knowing what to do.

This problem affects not just one person but entire families and communities.

People need a way to report a missing person quickly and easily. PATA comes in to solve this problem. It's here to provide a simple and kind way for anyone to report a missing person and get help fast. Our aim is to make sure that missing people are found and returned to their families as soon as possible.

With PATA, I want to bring hope and support to those facing this difficult situation.

## 1.3 Main Aim of the Project

To help reunite missing persons with their families and loved ones.

I want to create a simple and fast way for anyone to report a missing person, so that help can come quickly.

PATA is all about bringing people back together, providing hope, and making sure that no one has to go through the pain of having a missing loved one for longer than necessary.

## 1.4 Specific Objectives of the Project

1. To create a user-friendly platform where reporting a missing person is as simple as possible, reducing the time it takes to send crucial information about a missing individual.
2. To ensure that the community is instantly alerted upon the submission of a missing persons report, with the goal of sensitizing them to respond upon the event that they see or identify the person in subject.
3. To increase the rate of successful reunions betIen missing persons and their families by providing a robust and efficient reporting and response system, with the aim of reuniting families as quickly as possible.

## 1.5 Research questions

1. How can technology be harnessed to simplify the process of reporting a missing person?
2. What features and functionalities are necessary for a Missing Persons Reporting and Response System to ensure rapid response and community engagement?
3. What impact does the timely reporting of missing persons have on the chances of successful reunions with their families?

## 1.6 Scope of the project

The PATA system is intended to be accessible and beneficial to a wide audience, with its primary focus on helping individuals and families who are in distress due to a missing loved one.

It is designed to be implemented in communities, regions, and countries facing challenges related to missing persons cases, irrespective of geographic boundaries.

The beneficiaries of this system are not limited to any specific demographic, as it is aimed at providing a universal solution to the issue of missing persons, with a focus on inclusivity and user-friendliness to assist anyone who might need its services.

## 1.7 Limitations of the study

While the PATA project aspires to address the critical issue of missing persons and provide a comprehensive reporting and response system, it is essential to acknowledge its inherent limitations:

1. Technological Access: PATA relies on internet connectivity and digital devices for reporting and response. It may not be readily accessible to individuals in remote or underserved areas with limited technological infrastructure, potentially leaving them without the benefits of the system.
2. Language and Literacy: The platform is designed primarily for users who are literate and can navigate digital interfaces. Language barriers may hinder those who are not proficient in the language in which the platform is available.

## 1.8 Benefits and beneficiaries of the study

The PATA study envisions a range of benefits for various stakeholders and beneficiaries:

1. Families and Individuals: Families and individuals facing the anguish of a missing loved one are the primary beneficiaries. PATA provides them with a ray of hope and support, enabling rapid reporting and community engagement. The system's prompt response mechanisms aim to increase the chances of reuniting missing persons with their families, thus alleviating emotional distress and uncertainty.
2. Communities: Entire communities benefit from PATA through increased safety and collective action. The platform fosters community engagement, encouraging individuals to participate actively in efforts to locate missing persons. This not only enhances community cohesion but also promotes a sense of shared responsibility for the Ill-being of community members.
3. Authorities and First Responders: Law enforcement agencies, search and rescue teams, and relevant authorities gain access to timely and accurate information, streamlining their efforts to locate missing persons. This system aids in efficient coordination and communication among these entities, ultimately improving their ability to respond to missing persons cases.

## 1.9 Project justification

The implementation of the PATA project makes sense for several important reasons.

First and foremost, it's about helping people when they need it the most. When a loved one goes missing, it's incredibly distressing. PATA aims to ease this distress and bring hope to families and communities.

Second, PATA uses the power of technology to do something good. In today's world, technology can be used to solve problems, and PATA uses this to make the process of reporting missing persons quicker and easier.

Another important reason for this project is that it brings communities together. When someone goes missing, it affects not just one family but the whole community. PATA encourages people to work together, share the responsibility, and help each other.

By making reporting missing persons more efficient and effective, PATA increases the chances of finding them and reuniting them with their families. It's all about bringing hope and empowerment to those facing tough times. In the end, this project is all about kindness, compassion, and using technology for the greater good.