



## **LOCATION TRACKER SYSTEM PROPOSAL**

**Prepared by: FRIDOLIN MPIZA, Tanzania Network and  
Software Engineer**

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## **1. INTRODUCTION**

This is a single paged platform developed by Fridolin Mpiza, Tanzania Network and Software Engineer through which a system user can track a certain mobile phone number's location by filling needed particulars on the system. A system user can get an accuracy of location depending on their distance, map height and map width as described below.

## **2. TECHNOLOGIES USED**

A system was developed by using the following technologies to make sure that functionalities tend to operate effectively;

- Python,
- Map Application Programming Interface (API)
- Satellite
- JavaScripts (Js) and Cascading Style Sheet (CSS)
- HTML (Hyper Text Mark Up Language)
- Mysql Database

All of these technologies were used to make sure that the whole system is going to undertake the intended functionalities while it is used.

## **3. PRODUCT FEATURES**

### **3.1 System Dashboard**

- A location tracker system is a single paged application with several sub-components which enable a system user to fill the required particulars including a Mobile Phone Number section, street, Zip Code (Optional), City (Last area of phone number to be available), Map type, distance kilometers and Map zoom mechanisms as appear below.

LOCATION TRACKER

Fill location details

Phone Number  
Phone Number

Street  
njiro

Zip Code  
Optional

City  
arusha

Map Type  
Roadmap

Zoom  
2 km

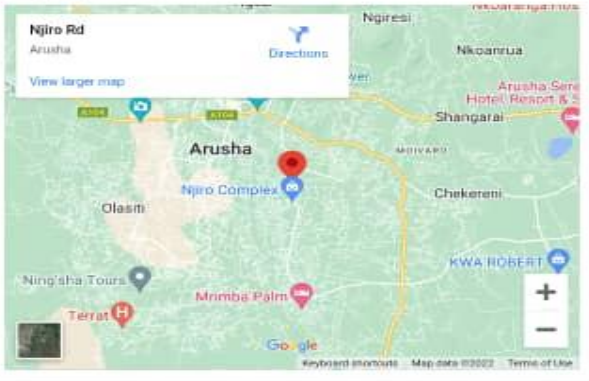
Map Height  
400 px

Map Width  
520 px

Find a Map Location

Track a location

Google Maps Preview



### LOCATION TRACKER

Fill location details

Phone Number

Phone Number

Street

Street

Zip Code

Optional

City

Map Type

Roadmap

Roadmap



Satellite



Satellite with street names



Terrain



2 km



4 km



8 km



15 km



30 km



50 km



100 km



200 km



400 km



1000 km



### **3.2. Satellite View**

- On this section, a system user can see a satellite view on the system in order to magnify a real appearance of the located area in corresponding to a tracked mobile phone number on the system. Where in a system enables him/her to see demarcations, signs and systems as well as zooming mechanisms on the map. It appears as follows.

### LOCATION TRACKER

#### Fill location details

Phone Number

Street

Zip Code

City

Map Type

Zoom

Map Height

 px

Map Width

 px

Find a Map Location

#### Google Maps Preview





### **3.3. Terrain View**

- Also, a system enable user to see how a certain tracked mobile phone number can appear in a terrain view on the map. Where a system user can see roads signs, directions and zooming mechanisms so as to view an actual appearance of tracked area. It appears as follows.



fmpiza.github.io/loc



### LOCATION TRACKER

#### All location details

Phone Number

Street

Zip Code

City

Map Type

Zoom

Map Height

 px

Map Width

 px

Find a Map Location

Track a location

#### Google Maps Preview



#### 4. SOLUTION ONLINE

Eng. Fridolin will build software by using an advanced technologies in corresponding to the current global development of science and technology as well as by ensuring the high level of security and scalability. Also, it will allow you to do any updates on page content and images once it is launched and it make an easy integration with analytics software to track page and site performance.

#### 5. EXECUTION TIMELINE

- System execution timeline including several task as follow till making sure that the system is complete to operate.
  - Initial Design as per discussion to meet client's needs.
  - Functional Prototype
  - Application development and Complete Testing

#### 6. PROJECT COSTS

<b>Task</b>	<b>Price (USD)</b>	<b>Price (Tsh)</b>
Initial Invoice	85 / =	200,000/=
Approved Design Invoice	128/ =	300,000/=
Final Invoice	42/ =	100,000/=
<b>TOTAL AMOUNT</b>	<b>250 USD /=</b>	<b>600,000/=</b>

