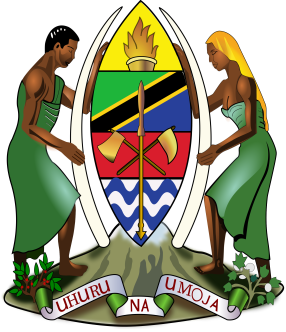
**THE UNITED REPUBLIC OF TANZANIA**

MINISTRY OF NATURAL RESOURCES AND TOURISM



**REQUIREMENT DOCUMENT FOR DEVELOPMENT OF NEW MNRT WEBSITE**

**April, 2020**

# ACRONYM

|  |  |
| --- | --- |
| GMS | Government Mailing System |
| Mbps | Mega Bits per Second |
| MNRT | Ministry of Natural Resources and Tourism |
| PHP | PHP Hypertext Preprocessor |
| REQ | Requirement |
| ReqID | Requirement Identification Number |
| UI | User Interface |
| URT | United Republic of Tanzania |
| V1 | First Version |

# AUTHOR

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Document Version** | **Document Revision Description** | **Document Author** |
| April, 2020 | V1 | The requirement document for the design of MNRT new website. 10th - 25th April, 2020. | MNRT |

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# 1. OVERVIEW

## 1.1 Introduction

Ministry of Natural Resources and Tourism of United Republic of Tanzania, is responsible for management of Natural, Cultural and Tourism resources. Tanzania has a great potential for natural resources, cultural and tourism attractions. The ministry is responsible to inform Tanzanian community and the world in general all day to day activities, documents and tourism.

Ministry of Natural resources and Tourism is in effort of improving service delivery so as to meet information demand of different stakeholders within and outside the Ministry. Various government reforms has been taking place to make sure the roles of service provision including e-government initiatives are implemented to enable the Ministry to adhere to good governance principles.

Among the initiatives, is the use of well-structured website which meets the user requirements and compliment the assurance of the government to improve public services, coping with changes in new economy, moving to electronic services, reducing number of visits and services at central locations.

Thus Ministry of Natural Resources and Tourism intends to design a new website so as fulfill the demand of inhabitants, stakeholder, institutions and other government officials.

**1.2 Current Website**

The existing website of the ministry was developed in 2014 using *Express Engine* content management system and PHP 5.6 which are earlier technologies in website development. Since developed the website has not been updated and upgraded to align with the new technologies.

**1.3 Limitations of Current Website**

1. Does not use of the current technologies demands.
2. Does not comply with URT government standards.
3. Insufficient services to clients and stakeholders
4. UI not interactive.
5. Maintenance and updating of application is difficult.

**1.4 Proposed Website**

New MNRT website intends to provide adequate services to ministry clients and audiences, scalable for feature easier redevelopment and maintenance with 24x7x365 availability. The site will be developed using PHP 7.2 which is popular and latest PHP version.

## 1.5 Scope

The requirement gathered will guide the development of a new MNRT website to fulfill the demand to client and audiences is such a way that it captures both local and international audience (MNRT staffs, researchers, investors, tax payers, service providers, traders and other stakeholder institutions).

The site shall be linked to all related government and stakeholders that will provide easier access to associated services. The compatibility of a website to different modes; desktop mode, tablet mode and mobile mode shall be considered.

## 1.6 Methodology

To gather user requirements for the new MNRT website each department and units under the Ministry was involved in;

* + Reviewing existing MNRT website.
  + Interview to departments/units in provision of requirements for a new website.
  + User stories- explained services audiences lack in the current website.

# 2. FUNCTIONAL REQUIREMENTS

The functional requirements details what the system SHALL do and behave as per user request. Such requirements may be calculations, technical details, data manipulation and processing, behavior and other specific functionality that define what a system is supposed to accomplish.

For a new MNRT website, requirements are categorized into; About Us, Dashboard, Information Center, Calendar, Living Documents, Stakeholders, Services, Project and Programs, Related Sites, MNRT system links.

**2.1.** About Us

|  |  |
| --- | --- |
| **Requirement** | **Description** |
| REQ001 | The website should provide a feature for ministry overview. |
| REQ002 | Website should provide a feature for ministry vision and mission |
| REQ003 | Website should provide a feature for ministry organization structure. |
| REQ004 | Website should provide a feature for a database regarding all leaders worked with the ministry since independence. |

**2.2.** Dashboard

|  |  |
| --- | --- |
| **Requirement** | **Description** |
| REQ001 | Website should provide flash report about important statistics information like ministry tourist statistics bulletin and resources data. |
| REQ002 | New MNRT website shall display maps with shape files that show all protected areas in Tanzania. |
| REQ003 | Website should provide feature for website viewer counter. |

**2.3 Information Center**

|  |  |
| --- | --- |
| **ReqID** | **Description** |
| REQ001 | A new MNRT website should provide features for latest news. |
| REQ002 | All live streaming of ministerial event should be displayed on a new MNRT website. |
| REQ003 | Website should provide advertisement and announcements. |
| REQ004 | A website should provide multimedia speeches (text, video or audio) given by ministry executives. |
| REQ005 | A website should contain all tenders for ministry purchase of service or goods. |
| REQ006 | All press notice should be contain to a new MNRT website. |
| REQ007 | A website should provide press speeches conducted by ministry executives. |
| REQ008 | A website will be linked to a ministry blog. |
| REQ009 | A website shall be linked to a social media (Facebook, twitter, Instagram, YouTube) |
| REQ010 | A website shall provide features for photo and video gallery. |
| REQ011 | The website should provide feature to link with important and related government websites. |
| REQ012 | A website should provide contact (addresses, telephone and fax) including physical location in a google map. |

**2.4 Calendar**

|  |  |
| --- | --- |
| **ReqID** | **Description** |
| REQ001 | The website should provide features for a events |
| REQ002 | The website should provide feature that will give timetable all meeting that can be exposed publicly. |

**2.5 Living Documents**

|  |  |
| --- | --- |
| **ReqID** | **Description** |
| REQ001 | A website shall provide features for ministry sectors guidelines. |
| REQ002 | A website shall provide features for ministry sectors regulations. |
| REQ003 | A website shall provide features for ministry sectors policies. |
| REQ004 | A website shall provide features for ministry sectors legislations. |

**2.6 Databases**

|  |  |
| --- | --- |
| **ReqID** | **Description** |
| REQ001 | A website should retrieve information from accommodations database. |
| REQ002 | A website should retrieve information from conservation areas and tourist attraction areas. |
| REQ003 | A website should retrieve information for leaders of ministry since independence. |

**2.7 Stakeholder**

|  |  |
| --- | --- |
| **ReqID** | **Description** |
| REQ001 | A website should provide features that display all government stakeholders |
| REQ002 | A website should provide features for tour operators |
| REQ003 | A website should provide features for tour hunting companies |
| REQ004 | A website should provide features for trophy dealers |
| REQ005 | A website should provide features for licensed researches |
| REQ006 | A website should provide features for licensed forest products exporters |

**2.8 Services**

|  |  |
| --- | --- |
| **ReqID** | **Description** |
| REQ001 | A website should provide features for frequently asked questions. |
| REQ002 | A website should provide features for feedback and complains. |

**2.9 Projects and Programmes**

|  |  |
| --- | --- |
| **ReqID** | **Description** |
| REQ001 | A website should provide features for ongoing projects. |
| REQ002 | A website should provide features for completed projects. |
| REQ003 | A website should provide features for progressing project. |

**2.10 Systems Links**

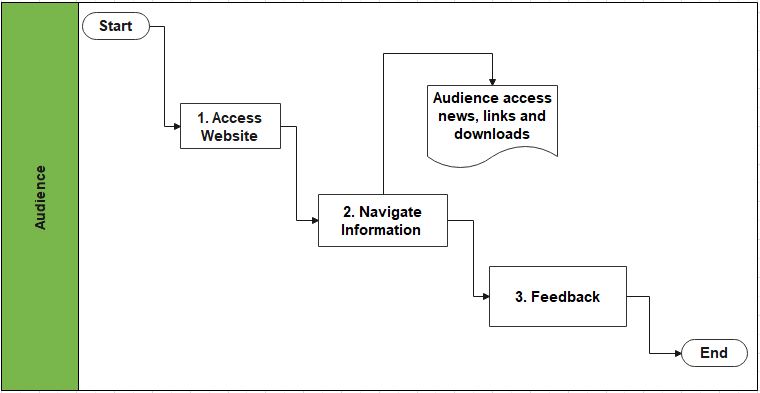
|  |  |
| --- | --- |
| **ReqID** | **Description** |
| REQ001 | A website should provide a feature for linking with MNRT Potal. |
| REQ002 | A website should provide a feature for linking with WAJIBIKA system. |
| REQ002 | A website should provide a feature for linking with GMS. |

# 

**2.11 Proposed Business Process for New MNRT Website**

### 2.11.1 Website Information Navigation

This process aimed to describe the procedures for website information navigation.

 Figure 1: Flow a diagram for website information navigation.

**Roles/Actors Description**

1. Audience; is the websites client who views website contents

**Notes on the steps**

|  |  |  |
| --- | --- | --- |
| **SN** | **Activity** | **Activity Description** |
|  | Website Access | The client open up the browser through **www.maliasili.go.tz** |
|  | Navigate Information | The client navigate and access information (news, links, downloads). |
|  | Feedback | The websites client can leave comments accessed information. |

Table 1: Information navigation for a new MNRT website

# 3. NON-FUNCTIONAL REQUIREMENTS

**3.1 Reliability**

* The system shall be completely operational at least 99% of the time.
* Down time after a failure shall not exceed 1 hours.

**3.2 Usability**

* The number of web pages navigated to access product information from the top page should not exceed.

**3.3 Performance**

* The system should be able to support 10,000 simultaneous users.
* The mean time to view a web page over a 2Mbps modem connection shall not exceed x seconds.
* The mean time to download and view and whitepaper in PDF format for a 2Mbps modem shall not exceed x seconds.

## 3.4 Security

* The website shall provide password protected access to web pages that are to be viewed only by MNRT staff e.g GMS and WAJIBIKA.
* Transaction data must be transmitted in encrypted form.

## 3.5 Supportability and Compatibility

* The website shall be viewable to all browsers and supporting latest version of Internet Explorer, Google Chrome, Mozilla Firefox, Safari, Opera, UCB and Chromium.
* A website should support desktop, tablet and mobile modes.

## 3.6 Technological Requirement

* A language translation tool from English to Swahili and and vice versa will be needed.
* The websites should be developed using PHP frameworks and MYSQL database.

# 4. WEBSITE LAYOUT

# Website layout gives principal appearance of the front page (home) and show how website contents will be arranged to provide interactive design.

# The new MNRT website’s layout should contain the following components.

## Website colors

# The dominant color for a new MNRT website shall be Fern-Green (#4F7942) and Steel-Gray (#777B7E). Text color shall be black whereas the huge space will be covered white.

# **The TOP menu header**.

# The top menu should contain few important menu which are link to MNRT systems (WAJIBIKA, Complains, GMS and MNRT Portal) English/Swahili translator and a searching tool.

# Searching tool

# The website should comprise a search tool to search contents of a website within the site.

# Website Banner

# This part will consist of a simple national emblem in alignment with the ministry name tag.

# Collapsing main menu

# The most left menu for a website shall contain drop down menu all contents and links of all website.

# Image Slider

# The image slider shall contain flipping images together with *floating* pictures of current Ministry leaders and link to retrieve a list of all leaders since independence.

# Google Map with Shape Files

# This component will appear on home page it should display protected area.

# Dashboard

# This block shall provide flash report about important statistics information like ministry tourist statistics bulletin and resources data.

# Also Viewer counter will appear at dashboard block

# Footer

# Footer will comprise of Disclaimer, Privacy Policy, Copyright and Site Map based on the Government Website Standards and Guidelines. Footer should also display;

# Video and a link to view more videos

# Documents download

# Related links

# Quick links

# Contact details

# Social media links