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## Assessing E-government Systems in Developing Countries: An Analysis of Various Government Agencies Websites

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#### **ABSTRACT**

Government or public-sector administrations are now moving into digital form. Most of the government services and programmes can now be accessed through their respective ministries or agencies websites. This paper has examined the level of electronic government (e-government) adoption in developing countries. It choses Nigeria and India for the assessment with selected agencies web portals. The paper is a survey research that is descriptive in nature, it makes use of secondary source of data. The results of the assessment were presented in a tabular form with six (6) agencies web portals. Three (3) of the portals are from Nigerian government agencies while the remaining three (6) are from Indian government agencies. The agencies are NIMC, FRSC, and NIS from Nigeria; then UIDAI, FRRO, and National Portal of India from India. The paper recommends that government at developing countries should increase the level of sensitization and awareness to citizens of the need to be making use of e-facilities, it also recommends that non-governmental organizations should equally adopt the use of e-facilities in carrying out transactions within and outside their organizations, and finally mobile operators should subsidize the data rate subscriptions to citizens.

Keywords: E-government, Developing Countries, Government, Agencies, Websites

#### I. INTRODUCTION

E-Government is the application of technology to enhance accessibility as well as delivery of government services to the benefit of citizen, business partners, and employee [1]. This has to do with the use of information technology in handling the activities of public sector range from data flow, process mapping and political issues. The E-government is achieved through the presence of computer and web services with the aid of internet. Developed nation have incooporated the used of web-based technologies in handling administrative activities by

The terms e-government, e-government and digital government are usually used to represent the use of ICTs in public sector organizations <sup>[2]</sup>. E-government relies on ICTs to automate the processes to serve citizens, business, and government employees by means of world wide web (www) and internet.

means of digital delivery of service to citizens and employee as well as in provision of good governance.

Application of ICTs to public sector has enhance public administration productivity as well as satisfying citizen demands for online information and service provisions or delivery [1].

E-government is usually targeted to three main group known as government, citizen, and business or interest groups. This is represented as Government to Citizen(G2C), Government to Business (G2B) and Government to Government (G2G) [3].

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E-government provide G2C services to citizen in terms of given the online access to information and service such as making inquiries about government agencies and receiving feedback through their websites, payment of taxes, renewal of driving licenses, enrolment of national identity card, payment of school fees, etc. G2B consists of two-way interactions and transactions known as government-to-business and business-to-government. This deals with selling of products and services to government as well as government selling products and services to suppliers or business stakeholders. G2G deals with activities or processes that take place between different government organizations and agencies in order to improve efficiency and effectiveness of government operations [3].

E-government if properly implemented has a lot of impact to government and will help in improving good governance. Among the impacts include cost savings, reduce administrative burden, transparency and accountability <sup>[4]</sup>. The platform will make both government and citizens to monitor the activities of government agencies in terms of accessing some of the services and activities undergoing in such ministries or agencies. There are certain barriers that will hinder proper implementation of E-government. This include ICT infrastructure, privacy, security, policy and regulation issues, lack of qualified and trained personnel, lack of partnership and collaboration, culture, leaders and management support <sup>[4]</sup>.

However, developing counties are left behind in terms of adopting new innovations and trends in governmental affairs. Though some of the countries have started using technologies in some of the government affairs and agencies.

Therefore, this research aimed at assessing the level e-government adoptions in developing countries. It will specifically analyze the websites of some government agencies. The study will cover Nigeria and India with some selected ministries and agencies. The research has the following objectives

- i. To determine the services and effectiveness on government portals offered for the citizens
- ii. To determine level of acceptability of the web portals by citizens

### II. METHODOLOGY

The paper is a survey research that is descriptive in nature. It uses secondary sources of data that covers web portals of three government agencies of both Nigeria and India. The agencies from Nigeria includes National Identity Management Commission (NIMC), Federal Road Safety Corps (FRSC), and Nigeria Immigration Service (NIS). While agencies portals from India includes Unique Identification Authority of India (UIDAI), Foreign Regional Registration Office (FRRO), and National Portal of India. The agencies websites were analyzed in order to achieve the objectives of the research. The results were presented using tables describing the functionality of these web portals.

### III. RESULTS

This section presents the outcome of analysis made on the selected agencies web portals. The portals assessed from Nigeria include NIMC with URL address as <a href="https://www.nimc.gov.ng/">https://www.nimc.gov.ng/</a>, FRSC with URL address as <a href="https://immigration.gov.ng/">https://immigration.gov.ng/</a>, and NIS with URL address as <a href="https://immigration.gov.ng/">https://immigration.gov.ng/</a>. The portals assessed from India

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include UIDAI with URL address as <a href="https://uidai.gov.in/">https://uidai.gov.in/</a>, FRRO with URL address as <a href="https://www.india.gov.in/">https://www.india.gov.in/</a>, and National Portal of India with URL address as <a href="https://www.india.gov.in/">https://www.india.gov.in/</a>. The outcome of the analysis is presented in the table below:

Table Showing the selected agencies, URL address and descriptions

Table Showing AGENCY	g the selected agencies, URL addres URL ADDRESS	s and descriptions  DESCRIPTION
NIMC	https://www.nimc.gov.ng/	NIMC carries out the registration of citizens of Nigeria
		into the National Identity Database. It provides citizens
		with a unique national identity number (NIN). Citizens
		usually visit NIMC website for information about
		national identity card such as enrolment centres, pre-
		enrolment portal, and enrolment form. They use the
		portal to find-out the available enrolment centres as well
		as downloading the enrolment form for onward
		submission to the enrolment centre, or they can start the
		enrolment process directly from the Pre-enrolment portal
		link and then complete the remaining process at the
		respective enrolment centres. The online pre-enrolment
		will ease and reduce the entire enrolment process.
		Citizens also visits the websites for NIN checkup.
FRSC	http://frsc.gov.ng/	Federal Road Safety Corps is a government agency that is
		responsible for making the highways safe as well as
		controlling and regulating the traffic among the motorists
		in Nigeria. They are also responsible for issuance and
		renewal of drivers' license. Drivers usually visit the
		FRSC website to check the registered and accredited
		driving schools by the FRSC, check the list of approved
		number plates centres as well as checking the penalties
		and offences regarding traffic and other regulations
		concerning FRSC. However, the enrolment of driving
		license is usually done at the FRSC offices, it is not
NIIG		accessible by drivers themselves on the portal.
NIS	https://immigration.gov.ng/	The Nigeria Immigration Service is responsible according
		to the act establishing it for control of persons entering or
		leaving Nigeria, issuance of travel documents, to bona
		fide Nigerians in and outside Nigeria, issuance of
		residence permits to foreigners in Nigeria,

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		border surveillance and patrol, enforcement of laws and
		regulations with which the agency is been directly
		charged.
		The NIS website provides services to both citizens and
		foreigners such as information regarding passport, visa,
		and residential permit. The citizens can apply and make
		payment for their passport online and thereafter take the
		printout to the NIS office for photograph and biometric
		capture. They can equally track the status of their
		applications. Foreigners can as well pay for visa
		application online as well as check the status of their visa.
		Therefore, NIS website is mostly used by citizens
		intending to travel abroad as well as foreigners who are
		residing within Nigeria and those that intends to visit
		Nigeria.
UIDAI	https://uidai.gov.in/	Unique Identification Authority of India is responsible
		for issuance of national identity card known as Aadhaar
		Card to Indian citizens. The portal accepts Aadhaar
		enrolment as well as Aadhaar generation. It gives room
		for data update. There is provision for enrolment agencies
		which are hired and approved by the registrars of the
		authorities. They help in registration and enrolment of
		residents for Aadhaar registration.
FRRO	https://indianfrro.gov.in/frro/	The FRRO is responsible for registration of foreigners on
		their arrival in India. They issue residential permit to
		foreigners as well as process and forward their documents
		to Home department for visa extension. The FRRO
		equally issued stay visa to foreigners whenever their
		visas are extended. Usually, foreigners visit and fill the
		extension or required form on the FRRO website along
		side attaching all the necessary supporting documents.
		Thereafter, the printout together with the copies of the
		uploaded document will be submitted to the FRRO
		office.
National Portal	https://www.india.gov.in/	This is the Official Portal of the Government of India,
of India		designed, developed and hosted by the National
		Informatics Centre (NIC) with the aim of providing a

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single window access to the information and services
being provided by the Indian Government for citizens
and other stakeholders. An attempt has been made
through this Portal to provide comprehensive, accurate,
reliable and one stop source of information about India
and its various facets. The current Portal is a metadata
driven site that links to the other Indian Government

Portals/websites for most updated information.

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#### IV. CONCLUSION AND RECOMMENDATIONS

E-government provide flexible means in accessing government services as well as reaching out to government by the citizens. Developing countries are now adopting the technological innovations in their public administrative sectors. The availability of computers and internet have made this possible. The paper examined Nigeria and India as case studies with selected government agencies.

The agencies picked from both countries were interrelated in terms of service delivery. NIMC and UIDAI render similar services to the citizens of both countries, while FRRO and NIS as render similar services to foreigners. The research makes the following recommendations:

- i. Government should increase level of sensitization and awareness among citizens on the use of e-facilities
- ii. Non-governmental organizations (NGOs) should equally adopt the use of e-facilities in carrying out transactions within and outside their organizations.
- iii. Mobile network operators should subsidize the rate of data subscriptions to citizens, this is especially in the case of Nigerian context.

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