

Quarterly report from 15th March 2017 to 17th June 2017

Work plan Reference #	8968306
Status	Complete
Intern's Name *	Korir Gerald
Organization Name *	Ministry of Education Science And Technology
Sector *	Public
Internship starting Date: *	2016-09-01
Internship End Date: *	2017-12-31
Intern's Assignment: *	<p>The one-year Presidential Digital Talent Program (PDTP) is ongoing at the ministry of Education, Science and Technology (MOEST).</p> <p>The short stay in the Public sector has exposed me to day to day ICT operations in the public service including: dealing with daily operations on the ministry's network infrastructure, system administration and security and consequently been given tasks in relation to them.</p> <p>The current activities at the Ministry of Education, Science and Technology are implementation of an improved Network security infrastructure and developing three major systems, which in a bid to improve the education impact in Kenya are fast-tracked over a period of one year.</p> <p>We have been assigned to be part of the teams restructuring the Ministry's Network environment (Active directory and configurations) and also developing systems which include the "Free Secondary Funds Disbursement System, the Education Management information system (EMIS) and the Free Primary Funds Disbursement System.</p> <p>The previous systems were manual and involved calling and getting information from Education officers on ground all around the country. One of the most important milestone that these projects are supposed to achieve, is to create a unified and central information database that can connect various private and government ministries and state departments.</p> <p>Moreover, these projects are to improve quality services delivery and still maintain the functional procedures and process that are in place.</p>
Internship Duration(Months): *	12
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Overall Objective(ICT Masterplan): Ensuring provision of e-Government information and services to Kenyan citizens as key to improving productivity, efficiency, effectiveness and governance in the Education sector.

This is the overall objective of the ICT master-plan that was implemented by the Ministry of Education in adoption of the National ICT master-plan by ICT Authority.

As PDTP, we were inducted and clearly instructed to follow this overall objective when we were integrated into the ICT wing of the Ministry, in providing effective and efficient services to both the staff and the citizens.

Specific Objective(Organization): * Foster education as the primary means of sustainable economic development, social mobility, national cohesion, and social development. This specific objective shall entail creation of appropriate policies, solutions and infrastructure necessary to foster creativity and innovation at all levels.

Project Name(e.g. PDTP Helpdesk system(Indicate whether new or existing) Provide a brief description-max 100 words): *

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| 1 | 1. (NEW) The EMIS system (Education management Information system)- centralized systems holding information about the education sector in Kenya. |
| 2 | 2. (EXISTING) Active Directory and Network mapping – The process is ongoing and learning possibilities are in plenty. |
| 3 | 3. (NEW) Free Secondary Funds Disbursement System - Streamline the Manual way of disbursing funds to public secondary schools. |
| 4 | 4. (NEW) Free Primary Funds Disbursement System |

Activity(e.g.Collection and compiling of user requirements, Design, Testing, Implementation): *

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| 1 | 1.Preliminary analysis was done and completed – we collected user needs and compiled them. We also found out the ministry's objectives and the nature and scope of the problems we were to solve. |
| 2 | 2. Network/ System analysis and requirements definition - Old vs proposed system comparison |
| 3 | 3.Network redesign / Systems design – Detailed description of desired features and operations. |

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| 4 | 4. Restructuring the network segments, Active directory installation / And also setting up environments for the Development of proposed systems – coding. |
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Tasks(e.g. Project write-up, User meetings, coding): *

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| 1 | Initiation - First user- meetings - Ministry's head of ICT Introduction of the old system and what they need. Conference held at KICD. |
| 2 | Project research - system concept development |
| 3 | Pre-requisite installation of required software - MySQL(Xampp), Visual studio, Dream-weaver. etc. |
| 4 | Start of project design, coding and development |

Input/Resources required e.g. Laptops, finances *

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| 1 | Notebooks, pens |
| 2 | Cables, laptop, Network tools |

Outputs/Deliverables(Measurable) e.g. PDTP Helpdesk system *

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| 1 | Project proposals compiled and presented. |
| 2 | Clearance - Given the nod by relevant stakeholders to undertake or be part of the projects (As PDTPs). |

Start Date * 2017-01-09

Due Date * 2017-10-16

Status(Achieved tasks/Milestones to Date e.g. 3 Modules completed): *

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| 1 | (Coding) - Development of the three systems is half-way. Modules prototype designs and configurations have been done, user testing in progress. |
| 2 | (Networking) - Active directory implementation - Complete. |
| 3 | (Networking) -Introducing the State department of Basic education to the Jamii Telkom Network (A faster and more efficient infrastructure)- complete |
| 4 | (Networking) – Vendor on-site. Worked side-to-side to also learn from the experience. |

Expected Impact on Public Service/Service Delivery/Citizens(e.g. Quick solution/escalation of PDTP issues): *

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| 1 | To enhance clear, efficient and transparent disbursement of funds to Secondary and primary schools in Kenya |
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2	Simplifying government processes and embracing technology neutral operating environments
3	To Simplify and automate integrated end-to-end Ministry's accesses - Streamlining service delivery operations.
4	Provide easy access to information by interested parties like The world bank, and other government agencies.
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OS	Windows