

Allocation Tool Upgrade

Business Requirement Specification

Use Cases

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Version Control

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# Purpose of this document

The purpose of this document is to demonstrate possible use cases which can be executed within the upgrade of the Allocation tool. Based on discussions held in Tanzania, it was established that there is need to build a more distributed system for the allocation of health workers in Tanzania. Given the systems that are already existing in the countries health sector, the most ideal situation would be to integrate the allocation tool modules into the TIIS and HRHIS and have integration functionality with use cases specified later in this document. This will mean discarding a standalone allocation tool.

Stakeholders Involved

* MOHSW
* Training Institutions

The following uses cases are covered in this document

* Capture demand for Locations by cadre
* Capture student preferences in TIIS
* Creation of a web portal for the students
* Sending of graduate list with Preferences from TIIS to HRHIS
* Allocation of graduates in HRHIS
* Produce reports of the allocations done in HRHIS
* Post allocation results to the MOHSW website
* Send email/SMS notifications

# Use Cases: Allocation Process for Health Workers

### Use case 1: – Capture demand for locations by cadre

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| --- | --- |
| **Use Case ID** | AT 1 |
| **Use Case Name** | Capture demand for Locations by cadre |
| **System** | HRHIS Application |
| **Actors** | Users from Ministry of Health, |
| **Description** | The Ministry of health will consolidate a list of all Locations that have staffing needs for any health worker type. The list will be captured in the HRHIS. |
| **Normal Course** | 1. User select the ‘Add demand location’ option 2. The following information is displayed  * Location Name * Penalty for unfulfillment of demand * Budget * Geo coordinates * Worker type * Demand by worker type  1. Use case ends |
| **Precondition** |  |
| **Post condition** | Demand is available in the HRHIS |
| **Assumptions** | None |
| **Business Rules** | 1. The penalty of unfulfillment of demand may vary based on the extent of the need for fulfilment |
| **Non-Functional Requirements** | None |
| **Dependencies** | None |

### Use Case 2: Capture student preferences in TIIS

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| **Use Case ID** | AT 2 |
| **Use Case Name** | Capture student preferences in TIIS |
| **System** | TIIS Application |
| **Actors** | Users from Training institutions and Students |
| **Description** | Have an automated Cell form where the student will enter their preferences before leaving school in the TIIS |
| **Normal Course** | 1. User select the ‘enter preferences’ option 2. The following information is displayed  * Name of preference 1 * Name of preference 2 * Name of preference 3 * Weight for each preference   2. Use case ends |
| **Precondition** | The students can access the TIIS through a web portal in TIIS |
| **Post condition** | Student preferences are available in the TIIS |
| **Assumptions** | None |
| **Business Rules** |  |
| **Non-Functional Requirements** | None |
| **Dependencies** | None |

### 2.3 Use Case 3: Creation of a web portal for the students

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| **Use Case ID** | AT 3 |
| **Use Case Name** | Creation of a web portal for the students |
| **System** | TIIS Application |
| **Actors** | Users from Training Institutions and Students |
| **Description** | The students must be in a position to update their own preferences on the TIIS |
| **Normal Course** | 1. User select the ‘view qualification’ option  2. The following information is displayed   * Log in * Preference 1 * Preference 2 * Preference 3 * Unique ID   3. Use case ends |
| **Precondition** | The student is about to graduate |
| **Post condition** | Preferences are saved |
| **Assumptions** | None |
| **Business Rules** | * Each student can only log in to their account and cannot access other accounts * Preferences can only be edited before they are sent to HRHIS |
| **Non-Functional Requirements** | None |
| **Dependencies** | None |

### Use Case 4: Send graduate list with Preferences

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| **Use Case ID** | AT 4 |
| **Use Case Name** | Send graduate list with Preferences |
| **Main System** | TIIS application |
| **Sub System** | HRHIS Application |
| **Actors** | Users from Ministry of Health and Training schools |
| **Description** | After students have graduated, a list is sent to HRHIS from TIIS of all the graduates to be allocated with their preferences |
| **Normal Course** | 1. User select the ‘view graduate preferences’ option 2. The following inform  * Graduate Name * Training Institution * Health worker type * Preference 1 * Preference 2 * Preference 3   2. Use case ends |
| **Precondition** | There is functional integration between TIIS and HRHIS |
| **Post condition** | The graduate preference list is available in HRHIS |
| **Assumptions** | None |
| **Business Rules** | * Results should be out and the student’s graduation status confirmed |
| **Non-Functional Requirements** | None |
| **Dependencies** | Results Published |

### Use Case 5: Allocation of graduates to Locations

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| --- | --- |
| **Use Case ID** | AT 5 |
| **Use Case Name** | Allocation of graduates in HRHIS |
| **System** | HRIS Application |
| **Actors** | Users from Ministry of Health |
| **Description** | The graduates are allocated to their demand locations based on the demand and preferences |
| **Normal Course** | 1. User select the ‘run allocation model’ option 2. An output file is produced   2. Use case ends |
| **Precondition** | There should be available the demand and the preferences |
| **Post condition** | Allocation output file |
| **Assumptions** | None |
| **Business Rules** | * The allocation is based on the best fit algorithm |
| **Non-Functional Requirements** | None |
| **Dependencies** | None |

### 2.6 Use Case 6: Allocation process results

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| --- | --- |
| **Use Case ID** | AT 6 |
| **Use Case Name** | Produce reports of the allocations done in HRHIS |
| **System** | HRHIS Application |
| **Actors** | Users from Ministry of Health |
| **Description** | Reports on allocation are generated |
| **Normal Course** | 1. User select the ‘view allocation report’ option 2. The following information is displayed  * Fixed Assignments report * Worker Assignments * Demand met by Location * Assignments by Location * Assignments by worker type * Preference by Location   2. Use case ends |
| **Precondition** | The allocation model is run |
| **Post condition** | Reports from allocation are available |
| **Assumptions** | None |
| **Business Rules** | * Once allocation is done it cannot be altered * Assignments may be fixed to a location before running the model |
| **Non-Functional Requirements** | None |
| **Dependencies** | None |

### 2.7 Use Case 7: Post the Allocation Report to the MOHSW website

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| **Use Case ID** | AP 7 |
| **Use Case Name** | Post allocation results to the MOHSW website |
| **Main System** | HRHIS Application |
| **Sub System** | MOHSW website |
| **Actors** | Users from Ministry of Health, graduates |
| **Description** | The results from the allocation process are sent to the MOHSW website for the graduates to view where they have been allocated to. |
| **Normal Course** | 1. User select the ‘send file to website’ option 2. The following information is displayed  * Graduate name * Unique ID * Location allocated to * Date of reporting to location  1. Use case ends |
| **Precondition** | Annual allocation has been done |
| **Post condition** | Graduates can see the allocations on the website |
| **Assumptions** | None |
| **Business Rules** | * Allocations cannot be altered |
| **Non-Functional Requirements** | None |
| **Dependencies** | None |

### 2.8 Use case 8: Send Notifications

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| **Use Case ID** | AP 8 |
| **Use Case Name** | Send email/SMS notifications to users |
| **System** | TIIS, HRHIS |
| **Actors** | Users from Ministry of Health, graduates and training institutions |
| **Description** | Notifications to update information are sent to users or notifying of available reports on the system |
| **Normal Course** | 1. User select the ‘send notification’ option 2. Automatic email or SMS is sent to specified recipient 3. Use case ends |
| **Precondition** | There is information that requires notification |
| **Post condition** | Users are notified of information requirements or availability |
| **Assumptions** | None |
| **Business Rules** | * The recipients have to be specified each time notifications are sent not a generic mailing list |
| **Non-Functional Requirements** | None |
| **Dependencies** | None |

# General Comments

A web portal is to be created in the TIIS to allow students to log in and update their preferences.