Functional Requirements

Brink Innovation

Disease Surveillance – MOH Forms Automation

July 2023

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# Document Information & Sign-off Sheet

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| About this Document: | This document identifies the high-level functional requirements for Digitization of critical documents within the community disease surveillance space. | | | | | | |
| Author: | Brink Innovation | | | | | | |
|  | | | | | | | |
| Related Documents: | *Interactive Customer Journey Map* | | | | | | |
|  | | | | | | | |
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| **Project Stakeholders:** | Brink Innovation  MOH  Medic Mobile  Posh IT | | | | | | |

# Introduction

## Purpose

The purpose of this document is to outline functional requirements for the design, development, implementation and maintenance of a disease surveillance tool at the last mile. The proposed solution will target all the stakeholders within the disease surveillance space starting with the CHP.

## Scope

This project aims at enabling rapid identification and response to epidermic and pandemic through synchronized way of passing information across all levels of MOH.

## Points of Contact

Below is a list of Point of Contacts relevant to this project:

* Michael Owigar - Project Lead – Brink Innovation
* Beatrice Wango - Program Manager
* Allan Ochieng - Design Manager

## Objectives

The overall aims of this project are:

* Reduce the workload of the players within the ecosystem.
* Deliver Timely, consistent, and accurate date across all levels of disease surveillance.
* Empower the disease surveillance team to leverage real-time data in decision making and response efforts.

# Functional Requirements

## XLS Requirement Statements

| **Functionality Set** | **Requirement ID** | **Requirement Statement** | **Priority** | **Comments** | **Screen Reference** |
| --- | --- | --- | --- | --- | --- |
| 1. **CHP Functionality** | SI001 | **Household Mapping**:   * Ability to capture all the details required in the MOH 513. * Geolocation functionality to capture the precise location of the household | H | MOH 513 Input fields to be captured. | Refer to the Interactive Customer Journey for Disease Surveillance |
| SI002 | **Community Referral**   * Ability to select the household and make the referral. * All field in the MOH 100 to be provided | H | Integration with the Facility systems would be key to close the loop digitally. | Refer to the Interactive Customer Journey for Disease Surveillance |
| SI003 | **Daily Activity Form**   * Create a form for the CHP to capture their daily activity and track the health metrices they are supposed to realize | H | MOH Health community health indicators to be adopted. |  |
| SI004 | **Monthly Summary**   * Automatically output all the daily activities done by the CHP in a summary format * Adopt the structure used in MOH 513 |  | Provide a review functionality to enable the CHP to make changes if need be before submitting | Refer to the Interactive Customer Journey for Disease Surveillance |
| 1. **CHA Functionality** | CI001 | **Monthly CU Reports**   * Aggregate the entire CU report and present in a summary format adopting the MOH 515 structure. * Create a function to enable the CHA to drill down on individual CHP and merit their performance. | H | Performance Indicators to be designed. | Refer to the Interactive Customer Journey for Disease Surveillance |
|  | CI002 | DHIS Integration   * Enable data transfer to the government database once the CHA submits the report | H | DHIS 2 data requirements to be followed. | Refer to the Interactive Customer Journey for Disease Surveillance. |
| 1. **Diseases Surveillance Officer** | DI002 | **Capture Case Based Surveillance form.**   * Create a form and capture all the data required in the MOH 502 * Integration to the Facility systems/ government labs for real-time submission of data and real-time access of reports. | H | Adopt the standard definition guideline  Key data includes.   * Patient details * Diagnosis * Specimen | NA |
|  | DI003 | **Report: Line List**   * Output a line list based on the feedback from the Lab, * Patient data can be pulled from the database as created in MOH 513 * This can be automated if the integration is done or provide a form adopting the MOH 503 structure for manual upload. | H | The data set in this section is critical in the deign of the DS monitoring dashboard.  Key data includes.   * Patient details * Diagnosis * Results * Outcome | Refer to the Interactive Customer Journey for Disease Surveillance |
|  | DI004 | **Report: Monthly Surveillance Summary**   * Develop a report that capture all the cases recorded in MOH 503. * Adopt the MOH 504 structure for tracking the 18n most critical diseases. | H | Provide a review functionality to enable the DS Officer to make changes if need be before submitting | Refer to the Interactive Customer Journey for Disease Surveillance |
| 1. **National/ County/-Sub county Medical DS Team** | PI003 | **Reporting Dashboards**   * Access a summary of MOH 515, MOH 504 with ability to drill down to Specific Facility, CU, Household   **Disease Surveillance dashboards**   * Summarized indicators based on key metrics captured in MOH 100, MOH 502, MOH 503   + Suspected   + Confirmed   + Controlled * Disease Incidence Mapping – Layer the above incidences to the location collected in MOH 513 to create a map of the actual places where the cases have occurred. |  | Dashboard to be co-designed with the stakeholders | Refer to the Interactive Customer Journey for Disease Surveillance |

## Userflow diagrams

### View the design Frameworks below:

* Full Design:

# Conclusion

## Specification Documentation

* Functional Requirements (this document)
* Screen Sketches
* UI Flow Diagrams
* Technical Requirement

## Future Enhancements

* API Enablement
* DATA Innovation