# VACCINATION / TREATMENT DATABASE SYSTEM

FOR HOSPITALS

## FOR VACCINES & DRUGS

Vaccination Database: Desktop & Web Application

Creators/ Developers: Aysh Inventions Ltd    |   2021

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## A Database System to monitor Vaccination/ Medication

We hereby set out to create and maintain a massive secure , robust and efficient  online database system (Web Application) which shall be dedicated to keeping track of administered vaccines / medications all over the country/ your hospital branches. The system shall keep data like Vaccine / Drug type, recepient details and other relevant administration details for the various vaccines / hospitals. It shall be accessible anywhere by the authorized personnel using an internet connection, and accordingly the right personnel shall be able to edit / manage the data in the system. The security of the data shall be Optimum, with thorough prior testing and proofing.

The main project details are included in the subsequent pages.

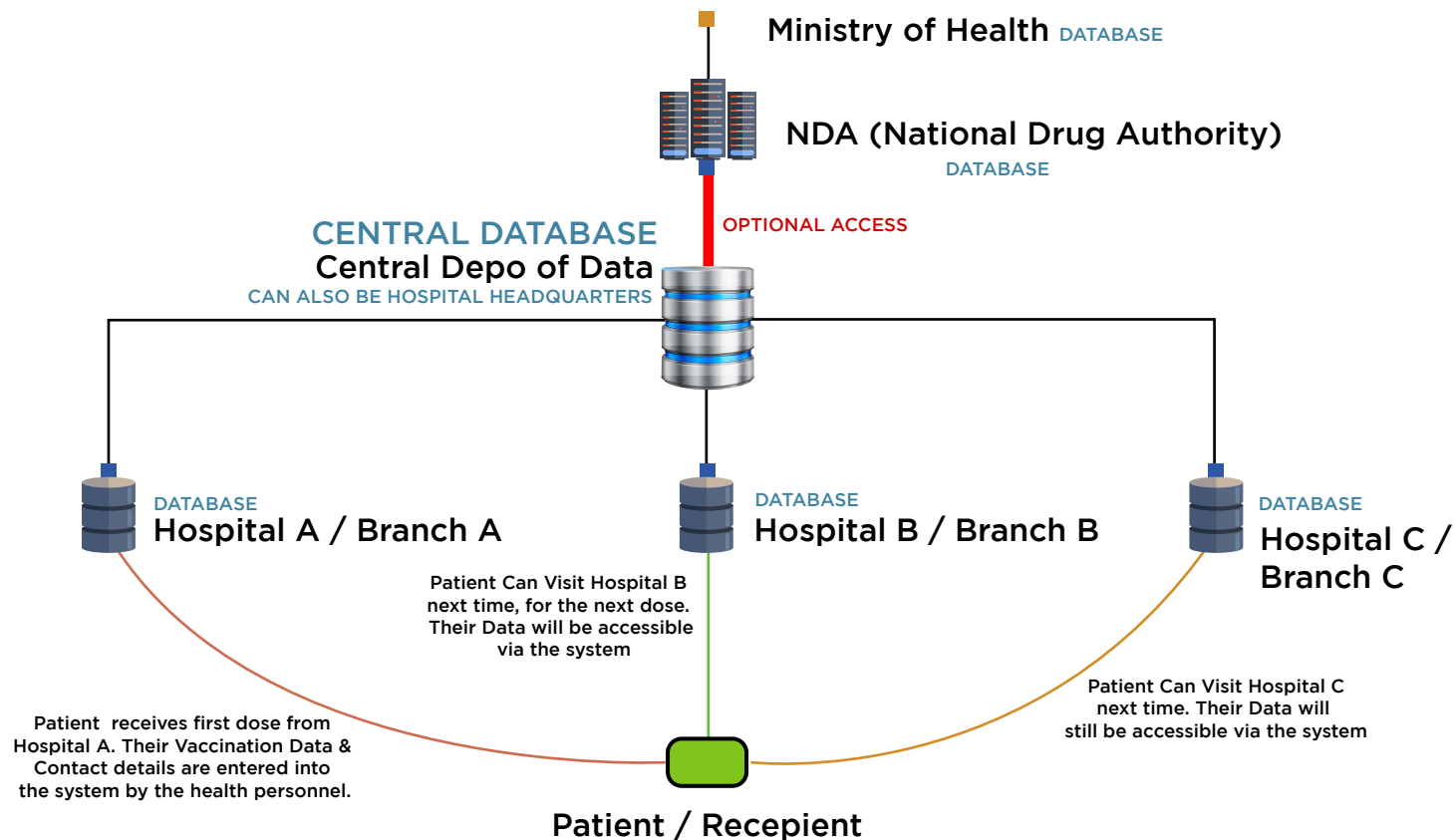For more information, please contact us .



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# SYSTEM FLOW DIAGRAM

**Ministry of Health** DATABASE

**NDA (National Drug Authority)**
DATABASE

CENTRAL DATABASE
**Central Depo of Data**
CAN ALSO BE HOSPITAL HEADQUARTERS

OPTIONAL ACCESS

DATABASE
**Hospital A / Branch A**

DATABASE
**Hospital B / Branch B**

DATABASE
**Hospital C / Branch C**

Patient Can Visit Hospital B next time, for the next dose. Their Data will be accessible via the system

Patient Can Visit Hospital C next time. Their Data will still be accessible via the system

Patient receives first dose from Hospital A. Their Vaccination Data & Contact details are entered into the system by the health personnel.

**Patient / Recepient**

# HOW THE SYSTEM WORKS

## Recepient

Desktop at any Hospital

Internet connection

Data is captured (entered by the health personnel) via the web application after administering the vaccine to the recepient.

The data may also be captured offline using Ms Excel and uploaded later into the online database via the web application.

## Hospital Database

Data is captured in Hospital Database (Online)

### Central Database

A copy of the data is automatically sent by the system to the central Data Depo accessible to other stakeholders

# TECHNOLOGIES USED TO BUILD THE SYSTEM

| Programming Language | Java , Play Framework Security, Javascript |
|---|---|
| Database | Oracle / MySQL/ Postgresql |
| Cloud Servers | Amazon / Oracle / JVMHost |

# SYSTEM SECURITY & DATA SAFETY

- **Amazon Security Groups**
- **Java inbuilt robust security (e.g. Play Framework)**
- **Secure Socket Layer Protection**
- **Password encryptions**

# SYSTEM ACCESSIBILITY



- **Smart Phone**
- **Tab**
- **PC (desktop) -** Recommended
- **Laptop**

# REMUNERATION / PROJECT COST

| ITEM | COST |
|------|------|
| 1. Purchasing Advanced Database security & Web Hosting Services (Up to 1 TB Data Storage Capacity per year). | UgX 20M (Annually) (USD 5,600) |
| 2. System design, development & maintenance: All Technical labor (Aysh Inventions Ltd Production Team). | UGX 84M Annually |
| 3. Medical Consultations / Research. | UgX 20M Annually |
| 4. Free Staff training & Technical support for the whole year. | |
| TOTAL | UgX 124M Annually |

**Required initial deposit:** UGX 61,000,000 (Covers all preliminary expenses plus 3 months of labor).

**The balance:** UGX 63,000,000 is to be paid in monthly installments of UGX 7,000,000 per month starting from the fourth month. All payments shall be made digitally or by cheque to our Stanbic Bank account. For details, Please call +256773913902

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