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| **The Business Model Canvas** | | Designed for: | | |  | Designed by: | |  | Version: | | Date: | |
| **AI powered for a Smarter Community Healthcare** | | |  | NIYOMUGENGA Emmanuel | |  | V2 |  | | 30/03/2025 |
|  |  |  |  |  | | | |
| **Problem** | **Solution** | | **Unique Value Proposition** | | | | **Unfair Advantage** | | **Customer Segments** | | | |
| - Difficulty in distinguishing diseases with similar symptoms.  - Delays in identifying and prioritizing critical patients.  - Inefficient referral process causing treatment delays. | -Improved **accuracy** in disease diagnosis.  -Faster **decision-making** for patient triage.  -Better **coordination** between CHWs and healthcare facilities. | | "An AI-powered system that helps CHWs diagnoses diseases, prioritizes urgent cases, and automates referrals."  Resulting to reducing delays and improving healthcare in Rwanda. | | | | - Easily getting access on data/information.  - Easy getting support from partners | | - Community Health Workers (CHWs)  - Health Centers & Hospitals.  - Patients (Especially in Rural Areas).  - Ministry of Health & Government Agencies | | | |
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| **Existing Alternatives** | **Key Metrics** | | **High-Level Concept** | | | | **Channels** | | **Early Adopters** | | | |
| - Community Health Information System (CHIS): CHWs report health data (diseases, family planning, nutrition).  - Système d’Information Sanitaire des Communautés (SISCOM): Centralized platform for CHW data access by health centers.  - RapidSMS: Tracks pregnancies and child health via SMS alerts. | - Reduction in misdiagnosed cases  - Time taken to diagnose a patient  - Average time to assess and prioritize a patient  - Percentage of critical cases correctly identified  - Reduction in unnecessary hospital visits  - Number of patients successfully transferred  - Reduction in time delays for critical cases | | - An AI-powered healthcare assistant that helps CHWs diagnose diseases, prioritize urgent cases, and automate patient referral which improve healthcare access, reducing delays, and enhancing coordination between CHWs and health facilities . | | | | - Government & NGO Partnerships  - Workshops & Training Programs | | - Community Health Workers (CHWs)  - Health Centers & Hospitals.  - Patients (Especially in Rural Areas).  - Ministry of Health & Government Agencies | | | |
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| **Key Activities** | | | | **Key Partners** | |
| - Develop and train AI models for symptom analysis.  - Conduct validation tests to ensure accuracy.  - Develop and train a CHWs AI-powered triage model  - Build an automated referral system (SMS/email alerts) | | | | - Health center Volunters  - Health centers and local hospital  - Ministry of Health (Rwanda Biomedical Center - RBC)  - telecommunication providers (MTN) | |
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| **Cost Structure** | | | | **Revenue Structure** | | | | | | | | |  |
| - App development and maintenance.  - SMS and Notification Services.  - Cloud hosting, data storing and processing costs.  - Ongoing Maintenance & Updates. | | | | - Government Contracts & Grants.  - NGO & International Health Organization Funding.  - Telecom Partnerships revenue sharing. | | | | | | | | |  |
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| The Business Model Canvas | | | | | | | | | | | | |  |

Acronym:

-CHWs: Community Health Workers; -NGO: Non-Government –Organization; -SMS: Short Message Service.