A photograph of a medical consultation. A doctor in a white coat and stethoscope is seated at a desk, writing on a clipboard with a pen. A patient in a dark suit is visible from the side, facing the doctor. The background is blurred.

Software  
project:mbera  
muganga  
software  
project.

Katurebe Benon  
Date:

# Mbera muganga:

This software project done to deal with health sector



**DOCTOR**

Company Name  
Date

# *Software project:*

*Mbera  
muganga*



# *Planning needs:*

1

**User roles:**

2

**Data collection:**

3

**Data visualization:**

4

**Security:**

5

**USSD Access code:**

6

**Web Access:**

# *For design interface:*

## 1 User interface:

- .Simple
- .Intuitive
- .Accessible

## 2

## Workflow:

- . How will patients and doctors interact with the app.



# USSD INTEGRATION

**USSD Gateway provider:**  
Partner with provider  
that supports your  
target  
region(Rwanda,in this  
case).

01

**Menu Structure:**  
Design an  
intuitive  
menu system

02

**Data visualization:**  
How will  
doctors view  
patient data  
(e.g., charts,  
graphs)?

03

:

**Security:**  
We'll need to  
ensure patient data  
protected (HIPAA  
compliance,  
anyone?)

6

04

# INTEGRATING AI INTO SYSTEM

## ARTIFICIAL INTELLIGENCE

**Enhance decision support for Doctors:**

- 1. machine learning (ML) models:** Train ML models on large datasets of patient test results and corresponding diagnose/outcomes.
- 2. Predictive analytics:** Use these models to analyze new patient test data and predict potential diagnoses or identify trends.
- 3. Clinical decision support:** Provide doctors with AI-driven insights and recommendations based on global guidelines and best practices.

# Potential Ai applications:

- 
- 1 . Pattern recognition: identify abnormal tests patterns and trends.**
  - 2 . Risk stratification: predict patient risk levels based test results.**
  - 3. Treatment suggestions: offer evidence- based treatment recommendations.**

# AI integration we can use:

1. Use pre-trained models: Leverage existing ML models and APIs(e.g., Google cloud AI, Amazon sage marker).Develop custom
2. models: train your own models using patient data and collaborate with clinicians.
3. Integrate with existing systems; Ensure seamless integration with your web app and USSED system.

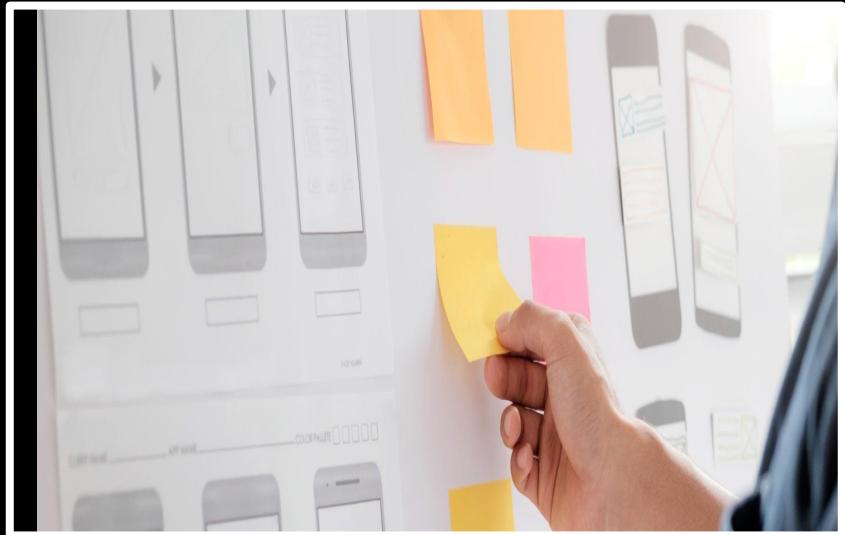


## DATA REQUIREMENTS:

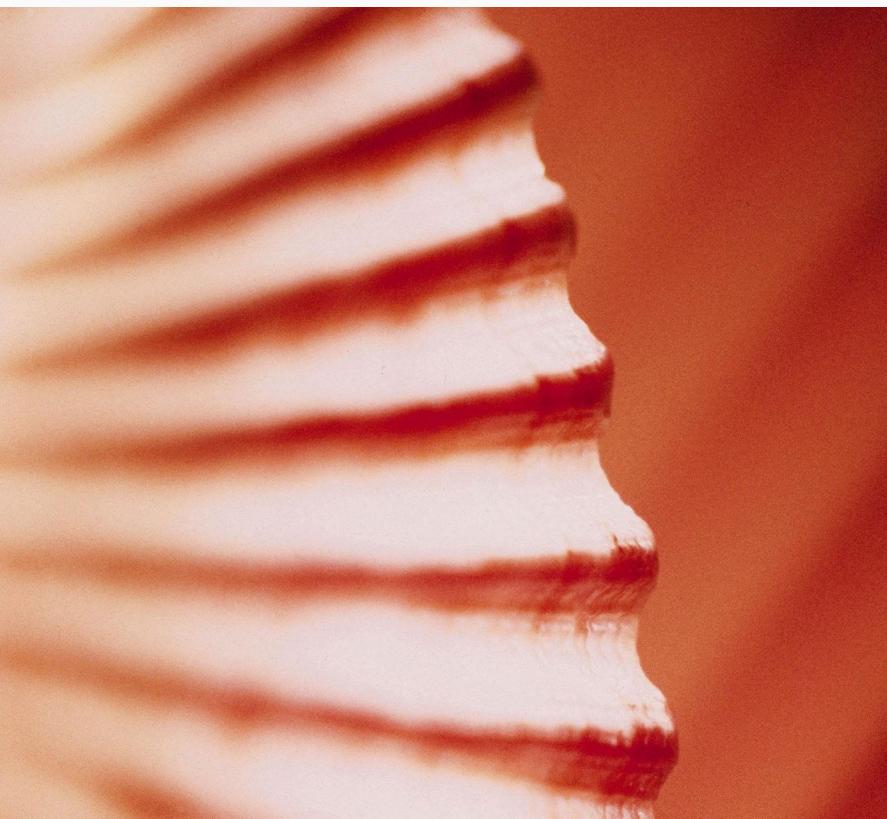
- 1 . patient test results: Collect and analyze test data (e.g., blood pressure,blood glucose).
- 2 . Clinical outcomes:correlate test data with patient outcomes (e.g., diagnosis, treatment response).
- 3 . Data quality : Ensures data accuracy, completeness and consistency.

# Potential partnerships:

1. Hospital and clinics: collaborate with healthcare providers to access anonymized patient data.
2. Healthcare organizations: Partner with organisations that specialize in diabetes care .
3. Research institutions: collaborate with researchers to leverage existing datasets and expertise.



# Agenda



- 01** Speakers
- 02** Last quarter's highlights
- 03** Challenges
- 04** Open discussion 1
- 05** SWOT analysis
- 06** Next quarter's goals

# Data Privacy and security:

1. HIPAA Compliance: Ensure compliance with healthcare data regulations.
2. Data encryption: protect patient data with robust encryption methods.
3. access controls: implement strict access controls for authorized personnel.



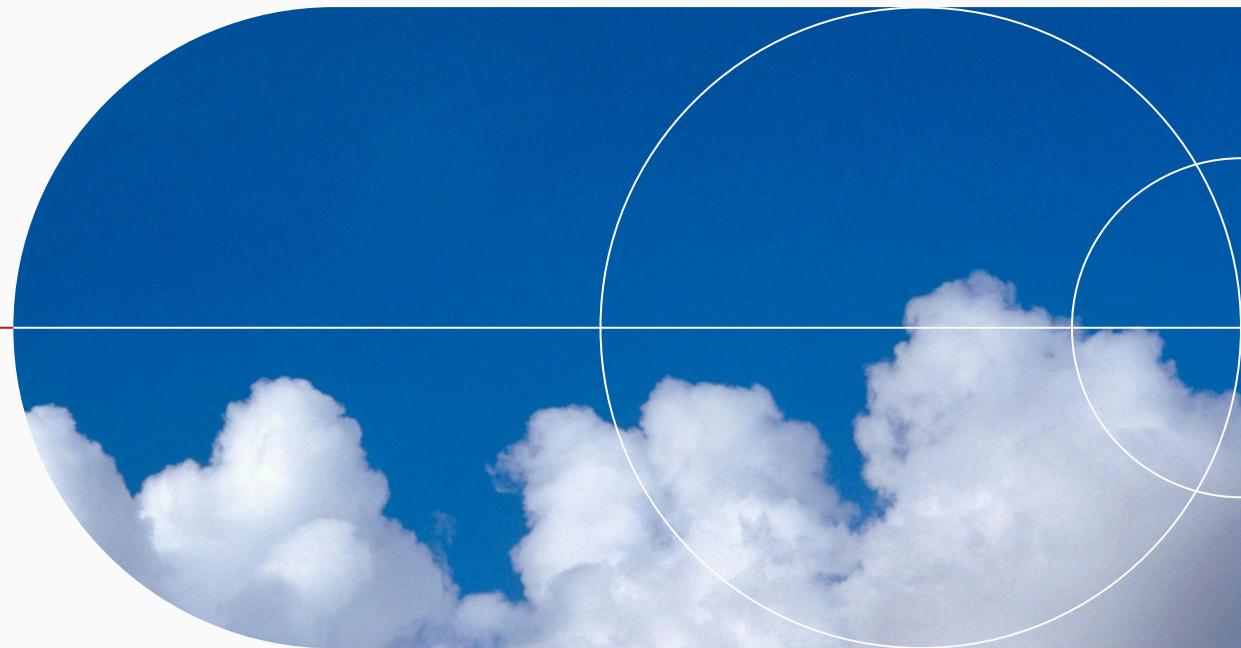


# Quarterly planning *meeting*

Company Name

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who can read this deck, etc.

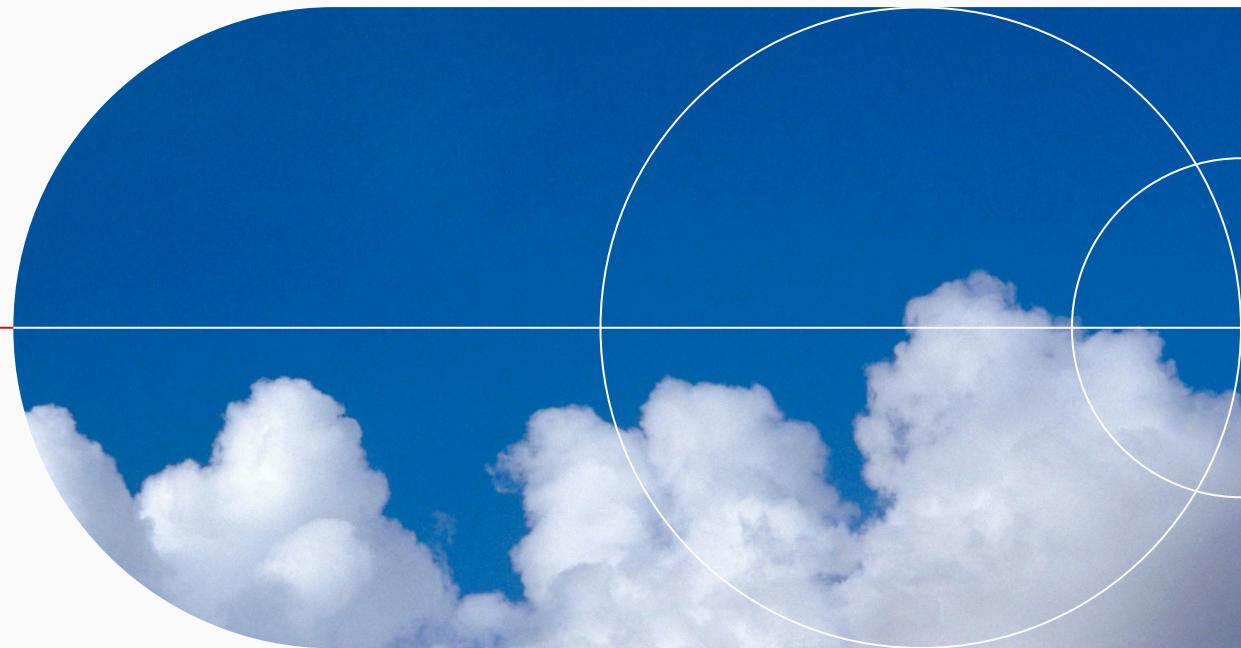


# Quarterly planning *meeting*

Company Name

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who can read this deck, etc.



# Connectivity Option:



⋮

⋮