Improving how Emergency Room in Haiti handle patient's information

History of Haiti

- **Haiti**, country in the Caribbean Sea that includes the western third of the island of Hispaniola and is the poorest country in the Western Hemisphere

- Haiti, whose population is almost entirely descended from African slaves, won independence from France in 1804, making it the second country in the Americas, after the United States, to free itself from colonial rule.

- Over the centuries, however, economic, political, and social difficulties, as well as several natural disasters, have beset Haiti with chronic poverty and other serious problems.

Hardships for Haiti

Extreme inequality, poverty and crime

Food, water, farming, and hunger

Natural disasters

2010 7.0 EARTHQUAKE

2016 HURRICANE MATTHEW (CATEGORY 4)

Political instability

DEPRECIATION OF THE GOURDE

Cyber Security & Haiti

- ❖ Specific legislation and regulation related to cybersecurity has been enacted through the following instruments:

- 🗎 None.

- 🗎 Haiti does not have an officially recognized national or sector-specific cybersecurity strategy.

- 🗎 The central Directorate of the Judicial Police (Direction Centrale de la Police Judiciaire –DCPJ) takes the lead on investigating identified cyber attacks

- 🗎 Haiti does not have any officially approved national or sector specific cybersecurity framework for implementing internationally recognized cybersecurity standards.

- 🗎 There is no officially recognized national or sector-specific program for sharing cybersecurity assets within the public and private sector in Haiti. There is some degree of informal and unofficial cooperation between the public and private sector

Benefits of INFOSEC in Healthcare

Implementing a smart **security** strategy can actually **boost productivity** while protecting devices and data.

Criminals can use leaked information to sell on the black market which, in turn, can be used for identity theft, Medicare fraud, and for other financial gains. Also, preventing cyber attacks helps keep patient information confidential, which is important for legal reasons

Leaked Patient Information Can Be Costly

Population Is Growing Fast So Efficient Care Is Key

◈ 63% of companies said their data was potentially compromised within the last twelve months due to a hardware- or silicon-level security breach.   (Source: CSOOnline)

◈ Criminals can use leaked information to sell on the black market which, in turn, can be used for **identity theft, Medicare fraud**, and for **other financial gains**. Also, preventing cyber attacks helps keep patient information confidential, which is important for legal reasons.

◈ **Preventing cyber attacks** in this instance is especially important because without being able to use technical data stored within databases and networks, it means healthcare professionals can't be as efficient. It's especially important today when the population is growing so fast that even an efficient industry can't keep up with it.

Benefits of AI in healthcare

◈ improve medical diagnosis

◈ advancements in healthcare treatments

◈ ability to design treatment plans

Project Requirements

Electricity/Power

Routers

Wireless Technology

Security Cameras equipped with AI

Printers

Desktops/Monitors

Tablets

Servers
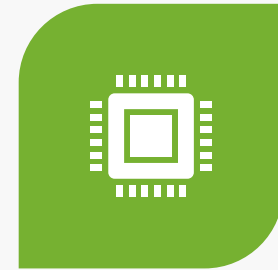
Security

NO ACCESS TO THE INTERNET.

SECURITY CAMERA WITH FACIAL RECOGNITION.

VIDEO STREAM FROM SECURITY CAMERA GOES THROUGH THE SECURITY OFFICE.

BIOMETRIC SENSORS TO PREVENT UNTHEORIZED ACCESS TO CERTAIN AREAS.

MYSQL Server: holds information about a patient and the staff

Allow medical professional to have access to patient's information stored in the database

Database & Application

Why Have a Database?

◈ Centralize patient information

◈ Tracking and planning of one's treatment process, doctor's appointments, vaccination dates and more

◈ Reduction in medical facility running costs due to less paperwork and clerical staff

◈ Provision of accurate, up-to-date patient information

◈ Increase in efficiency due to quick access to records

◈ Help with diagnosis and prescription. It will help in reducing medical errors

◈ Assists with documentation and billing

Tables

- personnelle_medicale - Hold the staff information

- contact – Hold contact information about the Staff (Email, cel, etc …)

- patient – Hold Patient's record

- allergie - Hold information related to patient allergies.

- admission - hold when the patient was admitted to the ER.

- admission_entry –Hold any information related to patient's condition

Search

Nom _____   Prenom _____

| Info du Patient | Admission |

Nom   _____

Prenom   _____

Date de Naissance _____ ⊞

Age _____   Sexe   _____ ▾

Rue _____   Groupe Sanguin _____

Pays _____   Ville   _____

NIF _____   Departement _____

Constacts

Telephone 1   _____

Telephone 2   _____

Email   _____

Contact d'urgence

Nom   _____

Prenom   _____

Relation   _____

Rue   _____

Ville   _____

Departement   _____

Pays   _____

Telephone 1   _____

Telephone 2   _____

File   Edit   Help

Nom | **Prenom** | **tel**
john | Doe1 | 1800

Search

Nom [ ]   Prenom [ ]

| Info du Patient | Admission |

Nom [ ]

Prenom [ ]

Date de Naissance [ ] [📅]

Age [ ]   Sexe [▼]

Rue [ ]   Groupe Sanguin [ ]

Pays [ ]   Ville [ ]

NIF [ ]   Departement [ ]

Constacts

Telephone 1 [ ]

Telephone 2 [ ]

Email [ ]

Contact d'urgence

Nom [ ]

Prenom [ ]

Relation [ ]

Rue [ ]

Ville [ ]

Departement [ ]

Pays [ ]

Telephone 1 [ ]

Telephone 2 [ ]

File   Edit   Help

Search

Nom [joh]   Prenom [ ]

| Info du Patient | Admission |

Nom [ ]

Prenom [ ]

Date de Naissance [ ] [📅]

Age [ ]   Sexe [▼]

Rue [ ]   Groupe Sanguin [ ]

Pays [ ]   Ville [ ]

NIF [ ]   Departement [ ]

Constacts

Telephone 1 [ ]

Telephone 2 [ ]

Email [ ]

Contact d'urgence

Nom [ ]

Prenom [ ]

Relation [ ]

Rue [ ]

Ville [ ]

Departement [ ]

Pays [ ]

Telephone 1 [ ]

Telephone 2 [ ]

Left Window

Search

Nom [joh]   Prenom [ ]

Info du Patient | **Admission**

Nom [john]

Prenom [Doe1]

Date de Naissance [12/7/1999] [▦]

Age [20]   Sexe [M ▾]

Rue [ ]   Groupe Sanguin [ ]

Pays [ds]   Ville [ ]

NIF [fs]   Departement [fdgn]

Constacts

Telephone 1 [1800]

Telephone 2 [1600]

Email [wfgwue565e6ue56@email.com]

Contact d'urgence

Nom [75e57u e5]

Prenom [hgdr]

Relation [ ]

Rue [hrt]

Ville [shrjsr]

Departement [jrjr57]

Pays [jrt7585]

Telephone 1 [1800]

Telephone 2 [1600]

Right Window

Email [wfgwue565e6ue56@email.com]

Contact d'urgence

Nom [75e57u e5]

Prenom [hgdr]

Relation [ ]

Rue [hrt]

Ville [shrjsr]

Departement [jrjr57]

Pays [jrt7585]

Telephone 1 [1800]

Telephone 2 [1600]

Email [rjrekj@email.com]

Allergies

| med1 |
| med3 |

Allergie aux médicaments

☑ med1   ☐ med2

☑ med3

Autre

[ ] [Ajouter]

| autre1 |
| autre2 |

Autres Allergie

☑ autre1   ☑ autre2

[|] [Ajouter]

File   Edit   Help

Date	Time
2020-05-05	03:07:21

Date | 5/6/2020 |

Medecin ▼

Heure | 03:07:21 |

Plainte actuelle

abc

Histoire de la plainte

État general

jkn

Poids | 120.5 | lbs

P.A (Assise) | | mmhg

Temperature | | C

Frequence respiratoire | | r/m

Pulse | | pulse/m

Hauteur | | m

The End