**PROPOSAL TO ARTIFICIALLY INTELLIGENTLY IMPROVE THE HEALTH SYSTEM**

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**Background**

This is an initiative is on making an Artificial intelligence software that can be packed in any operating system, where machine learning semanticists reinforcement learning is highly incorporated to make it more effective and convenient.

This is a software that is health based,where all doctors and patient, how they interact is highly considered and then modified to make work easier ,where a patient can talk to a doctor anytime in case of emergency, the patient can talk to many doctors but it depends on range, where a user(patient) cannot see a doctor far as 2km from him. The doctor can only attend to patient in the range of 2km.For convenient and security purposes. This 2km is the maximum range a doctor can talk to patient, he can change his range up to 50m which is minimum.

The software will be highly interactive in that it a user will register as a user and doctor will register as a doctor where for completion to take place , a verification code is send to the health system to identify if the doctor is valid ,if not then he/she will not register unless he/she register as ordinary user(patient).

**Problem statement**

The doctors usually have long time talking to patient around hospitals and likewise to patient who take long time on queue waiting for services, also Some individuals who are not registered by the government usually drive in and do a lot of hospitals services that is dangerous. Due to time Patients usually die on road trying to reach the doctors at hospitals .They travel long distance to access this services.

**Objective**

1. To save in-case of emergency and the hospital is unreachable the doctor can give faster direction as a first-Aid to the patient.

2. To avoid the problem of queues in the hospitals ,where the patient can explain to a doctor online and doctor can give solution faster.

3. To reduces the rate of deaths in the country because of faster services and reliable.

4.To give the doctors easy work where , a doctor can talk to 3 people at once reading at their proposals.

5. To save peoples time

6. To bring people together.

**How it works**

The software is highly sensitive to locate the position of any doctor registered by the Government automatically by using GPS,essence is for this 1. easy traceability to be reached by the citizens ,to help a citizen in-case when in trouble and need first attention , helps when the hospital is so far from a user ,someone can just run the software and see the doctor near him , where the software will display the appearances of any doctor regarding his/her distances. Where a doctor far as a distance of 2km from a user will not be in position to see the users interface,he will only see users(patients) at a range of 2km.

In the process of the user commissioning the software ,the ordinary user will be suggested to register for the first time as a public user and not a doctor a nurse. The section of user will be precise compared to a doctors section.

The ordinary user account will entail username,Full name, Phone number, Age ,password, gender ,then role section will have a drop down that contain functions, that is:

if 'parent----->no\_of\_children's---->ages respectively'

else: 'not a parent'

After the registration process and code is send for verification process to the phone number. Then the user will login using the username and password , so that he/she can access the interface , where in the icon for each doctor column will be emitting green light to mean that the doctor is on , if it is emitting red means doctor not active and when it is yellow meaning the doctors has ten people attending to, hence indicating the maximum reach but still can book for a chance.

The user users homepage will be emitting green also to indicate is that user is active and when it emit red red will means the patient is not active.

Due process of credibility, the doctors will have their section of registration , and after registering they will wait for code verification from the health sector system on email since all health professionals are registered by the ministry of health, if registration details is send to the database of the health system and the professional is considered authentic ,the doctor will be allowed to proceed to login using her user name password and code sent to hi,m/her from health system make himself available.

if the registration details is send and the system does not recognize the professional registering the person will be given an alert to register as an ordinary user, since he/she does not qualify for that position yet, or if he/she has an issue , will have to appeal to the health sector for problem solution.

The software will be able to separate the doctors from the ordinary users , where on the home page of an ordinary user will show the doctors nearby starting from the nearest to the one who is far when the user click on the doctor who is active , the doctor profile will appear, with a guided questionnaire , with doctors ordinary questions , to get assistance, whereas on the doctors homepage will indicate the users starting from the ones nearby to him to the one on the furthest point on the right side bar. The doctors and users will have to chat for good ,so that a doctor can have finer detail of a user.

The main reason for this is for easy reach-ability of doctors since sometimes in case of an emergency a doctor can be summoned for help or reach doctor easily.

This will help people to access better health care while they are at home, reducing problem of walking to hospital full of people unattended to .

The modules that entails the professional sector registration sector is .. full names, username, tile(doctor, nurse, professional), location will be automatically located using GPS for exert position, password , pin of the health system , number given by health, and name as indicated in the health system,

For assistance to be effected the user , pop up questionnaire indicating regularly questions always asked by doctors that is.1. your name, 2, age 3. what is the problem. 4. since when 5. taken any medicines.. after filling the questionnaire the user will send it to the doctor for further direction . The doctor will receive it with all question and answers so as to mitigate the problem.

The doctor can answer the user instantly , video call him/her for further directions or tell the person to reach him/her.

The doctor will have to activate security toggle bar to activate security surveillance process, the security server will indicate the type of people visiting a personal doctor. So that if a doctor is attacked investigation will be easy.

Security server will ensure that the doctor talk to serious people , how will this be done? The doctor will not receive any application from a user far as from 2km.

Main benefit of this will improve the health sector to render services to the public without any conflict of some people not attended to while visiting hospitals.