UNIVERSITY OF NAIROBI

DOCTORS BOOKING APPOINTMENT APPLICATION



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P15/1552/2015

PROJECT SUPERVISOR

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THIS PROJECT PROPOSAL IS SUBMITTED TO THE SCHOOL OF COMPUTING AND INFORMATICS

**CHAPTER ONE**

**Introduction**

**Background study**

The idea of a doctor’s appointment booker application:-

Over the past years technology has been in a rampant increase from hardware and also software but the health sector has somehow lagged behind inclusively the doctors and patient interaction or a patient booking a n appointment with a doctor for especially those whose do not have private doctors which are the majority. To get an appointment with a doctor you must go the specific health facility and place the appointment request which has some draw backs including:-

* Long waits for the patients only at the end of it not getting to see the doctor.
* Failure to find a doctor in the health facility.
* A doctor failing to meet a specific appointment that they had reserved either as a result of forgetting.
* Favoritism in the health facility in booking of doctor appointments.
* Over burdening a specific doctor with too much work for them.

These and many others cause the current manual system to be ineffective and poor service delivery the involved parties.

The number of people needing health care is increasing becoming huge and sometimes need more than human effort to perform the task of booking appointments. This doctor appointment application will to some extend solve the current situation. This will enable patients t specifically make a appointment prior to time enabling the following both doctors and patients to come into consensus where both will not be adversely affected.

**Problem Definition**

In many hospitals all around the country there exists a manual system in booking of appointment where the patient or the individual that wants to see a doctor must visit a certain health facility and place an appointment which can either be successful, in that the doctor can see the individual based on the work load onto the doctor. This means that they use physical documents to store the appointment consuming space and resources that could be done away with when this application is introduced.

**Objectives**

1. To help individual view various hospital and the doctors details & live availability
2. Help individuals/patients book appointments

**Problem Justification**

The application will be of help if developed because:-

1. The application will help individual book appointments.
2. Doctors will be notified on a specific appointment booking.
3. The application will help doctors schedule their time and appointments based on the appointment request made
4. This will also improve a doctors image since a doctor can fill in his specialization and help doctor to patient interaction.

**Project Scope**

The application on completion will have the following modules:-

* The registration and login of both doctor and other individual where you select if you are a doctor.
* The doctor preview module where can view details of a specific doctor and the days and time when one can book an appointment
* The appointment booking module, which help one book an appointment with a selected doctor.

**CHAPTER TWO**

**LITERATURE REVIEW**

There has been a very manual way that is in place to help patient and doctor interactivity which has led to some individual or organization think of putting in place measures to bridge this gap. This has been through web systems application and phone applications. These systems are only for private organizations or cover limited scope of the general public.

There has been less innovation to cover both scopes of private and public organizations thus patients or the general public cannot be able to view doctors know more about hospital and what is offered by various hospitals.

Some Include:-

1. **SetMore(Free Online booking Appointment)-**this enables individual book appointments and notification are send to various parties via SMS.

The difference between my application is that:-

* Notifications are send via both SMS and via the android application template
* You can view various hospital based on a county and based on specialization and book appointments.

1. **Quickwell:-**this is an android application which helps one book appointments with doctors but you must open the application so that you as a doctor to view the appointments.

My application is different from this because it does real time notifications using the android OS and Google Cloud Messaging Service.