Introduction

Purpose:

Government Health care system is a web based application is intended to improve entire Governments hospitals working process in a states. This System provides a facility to patients , to online schedule a appointment with a doctor for check-up. For doctors This System Provide a facility, they can have a access to see the history reports of patients. This system also provides facility to admin who is health officer, admin role is to monitor all doctors work and have access to see all the doctors success rate as well as patients feedback towards doctor.

Scope:

This system allows patients to schedule appointment and cancel appointment.

Doctors have access to see all the upcoming appointments and patients history reports.

In this system doctors can make prescriptions and doctors can take a printout of that prescription for patients.

This system allows admin to monitor all doctors success rate.

Overview:

This system Improves the Existing government hospitals working system. With this system patients can easily schedule their appointment with their nearer government hospital.

Doctors have a access to see all the upcoming appointments and according to appointments regular check-up will be done.

And there is admin who is state health officer, admin role is to observe the doctors work, how doctor behaves towards the patients with patients feedback, and also admin have access to see the success rate of all the doctors.

Performance Requirement:

There is no performance requirement in this system, because the server request and respone to client is totally based on internet connection of enduser.

Design Constrains:

This system should be developed using Standard Web Page Development Tool , which conforms GUI standards such like HTML, XML, JSON,etc.

The system should support various RDMS and Cloud Technologies.

Non-Functional Requirements

1.Security:

SSL

The System use SSL (Secure Socket Layer) in all trancations that include any confidential customer information.

The system must automcatically log out all customers after a period of inactivity.

The system should not leave any cookies on the customer's computer containing users's password.

The system's back-end servers shall only be accessible to authenticated administrators.

Sensitive data will be encrypted before being sent onver insecure connections like internet.

The proper firewalls should be developed to avoid intrusions from the internal or external sources.

2.Reliability:

The system provides storage of all databases on redundant computers with automatic switchover.

The main pillar of reliability of the system is the backup of the database

which is conitinously maintained and update to reflect the most recenet changes.

3: Availability:

The system should be available at all times.meaning the user can access it using web browser,

only restricted by the down time of the server on which the system runs.

In case of a of a hardware failure or database corruption, a replacement page will be shown.

uptime : It mean 24 \* 7 availability

100%--------------

99.9%

99.999%

99.9999%

4: Maintainability:

A commercial database is used for maintaining the databae and application server takes care of the site.

The maintainability can be done efficiently.

5.Portability:

The application is HTML and scripting language based (Javascript). So the end user part is fully portable and any system using

any web browser should be able to use the features of the system,including any hardware platform that is available

or will be available in the futuer.

An end-user is used this system on an OS;either it is Windows or Linux.

The System shall run on PC, Laptops and PDA.etc.

The technology should be transferable to different environments easily.

6.Accessibility:

Only registered users should be allowed to process to Schedule Appointment after authentications.

Only GUI access of the system should be permited to end users.

7.Policies:

The system should adhere to all the legal formalities of the particular countries.

The system should maintain security related to sensitive data.

8.Efficiency:

The system should provide good throughput and response to multiple users without burdening the system by using appropriate number of servers.

9.Safety:

Software should not harm ethical and environmental conditions of the end users machine.

10.Modulariy:

The system should have user friendly interface.

It should be easily updated,modified and reused.