

**Sri Lanka Institute of Advanced Technological Education
(SLIATE)**

**Project Proposal
(Developer Track)**

**Tittel
Medical Center Online Management System**

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1. Introduction

This project proposal is submitted to meet the software development requirements of the Individual Project module conducted by the Sri Lanka Institute of Advanced Technological Education (SLIATE) on 2020. Our increases the skill and very useful opportunity to our life.

Protection health is one of the most important things in human life. The medical center online management system is flexible , secure ,easy to use and efficient to medical center. also benefits to patients.

Clinic an organized medical service diagnostic, therapeutic, preventive treatment to ambulatory patient. Online appointment booking system is the essential feature in patient scheduling and well- organized system can save time and increase efficiency for medical practice or clinic to deliver timely.

The medical center online management system can be entered using a user name and password. It is accessible either by receptionist and Limited access is provided to the receptionist to update the system such as updating new patient's details, appointment details and payment details .Admin is given all power and authority over the whole system. Admin role was play by Doctor

Patients are login the website then booking the appointment form . Accessible Request accept or Reject by receptionist. Less workload to medical center staffs.

Medical center online management system is a web-based system. designed to improve the quality and management of provide information regarding appointment date, patients details and payment details.

2. Background and Motivation

I have selected to develop a Medical Center online Appointment management system for the Sukumar medical center at Chenkalady . This medical center in Batticaloa District , I would like to report on some interesting for this system and benefits to patients.

Also begin Initially the Sukumar Medical Center from Eravur on 1996. However, the this medical center was shifted to the permanent buildings at chenkalady on 2001.

The motivation for this project stems from two sources. One being that, this is a project which is suitable for the program project and other being, that with the successful implementation of this project for Sukumar Medical Center . It could use as a working example for the Patient Easy to booking appointment. Also manage the time issue and efficiency. It may also convince the client to take up more IT related projects in future.

3. Problem in brief

Nowadays clinic operates their systems manually. They kept all their data store manually and also all the records are maintaining manually. brief problem is manual record keeping is not reliable and satisfied because people tend to forget things and fast report generation is not possible.

A variety of base problems occur in the medical Center. such as

- ❖ Consuming long time to retrieve information

When a patient first time visits the clinic, he/she need to register in clinic. Nurse needs to filling up the details of patient in a form which may slow down the process of registration and use 3 to 5 minutes to find the patient's details which is quite wasting time.

- ❖ Consuming long time to wait

Because everyone visits the doctor at the same time, visiting the doctor requires more time

4. Aims and Objectives

4.1. Aims

This project aims to develop a Medical center online appointment management system for the the workloads, mistakes and process time made by the manual system with the help of the IT. Patients benefits for his system considering efficient, time saving.

4.2. Objectives

This Medical Center management system is designed to provide information regarding appointment date, patients details and payment details.

The following are the specific objectives of this project.

- Different types of administrators are employed to manage different tasks of the system.
 - ❖ Admin is given all power and authority over the whole system. Admin role was play by Doctor
 - ❖ Limited access is provided to the receptionist to update the system such as updating new patient's details, appointment details and payment details.
 - ❖ Users are able to book appointment date and time.
- The receptionist can have the access to provide Add new patients' details, appointment details and payment details
- The receptionist can have the access to provide percent details list, doctor appointment details that will be incorporated in the system.
- Provide a detailed report (number of patients, payment) will be generated weekly, monthly and annually. Weekly report, monthly report, annually report will be display by the chart with the comparison of report.
- User will able to make a appointment by booking date with using online system or contact the receptionist.
- User will able to give the feedback by using online system and view the details about doctor, other user's feedbacks, of clinic, own payment details, old appointment details.

5. Proposed Solution

The Proposed Solution of the manual process of preparing the medical center online appointment system. Before developing the proposed system, there is need to identify;

- a) The design of the proposed system
- b) The main users access appointment this system
- c) The activities of the main users

5.1 Planning

The objectives and goals of the system were defined clearly include the project scoped. In this case, the objectives and goals of the system are to improve the management process in medical center and at the same way to improve process of recording data . Identify the tools that going to use in the development process

5.2. Analysis

This phase includes identifying the data, the functions of the system, and the requirements for the system.

5.2 The Design

The proposed system will be designed using PHP is the main programming language. Also it will be used to write application Atom and and MySQL is selected as the database storage. Internet connection is a must in order to communicate patients through online to send email as a notification to patients.

5.2.1 The main Users

The main users of the proposed system are the Management Administrator, Users, Receptionist.

5.2.2. Activities Table

Activities of admin/doctor	Activities of receptionist	Activities of user
<ul style="list-style-type: none"> View the appointment details, percent details Search all possible details. 	<ul style="list-style-type: none"> Add/Delete/Update patient details View and Maintain the Members and payment details Print report, graphs 	<ul style="list-style-type: none"> Make appointment View old appointment details and payment details.

Activities Table 5.3.2

5.2.3. Gantt Chart

Activities	Weeks									
	1	2	3	4	5	6	7	8	9	10
User requirements										
Planning										
System designing										
Developing										
Testing										
User Documentation										
Implementation										

Gantt Chart 5.2.3

6. Resource Requirements

The proposed system will be develop using PHP

6.1. Software Requirements

- ❖ Operating system: -Windows 10 or anyone
- ❖ Language: - PHP also HTML
- ❖ IDE: Atom
- ❖ DBMS: MySQL

6.2. Hardware requirement

- ❖ Processor: Intel Core 2 Duo Processor
- ❖ RAM: 2GB or above
- ❖ Minimum 1 GB space in Hard Disk
- ❖ Minimum 1 GB Ram

6. Reference

- ❖ Bookitit. (2020). Online appointment scheduling management to medical clinics and doctors. [online] Available at: <https://www.bookitit.com/online-appointment-scheduling-management-to-medical-clinics-and-doctors/>
- ❖ Anon, (2020). [online] Available at: <https://www.doccity.com/en/online-clinic-appointment-system-proposal/2355353/>