

# **DENTAL CLINIC MANAGEMENT SYSTEM**

Dental Clinic Management System is a website which promotes easy data entry and usage. It includes patient's personal information, medical and dental history, treatment plan, case reports and statistics. This makes your dental practice more convenient, efficient and precise, thus promoting a paperless office. Dental Software is a process of implementing all the activities of the Dental clinic in a computerized automated way to fasten the performance. This project is to maintain the patient's Personal Details, Systemic Alerts, Dental Problems, Treatment Details, and Case Report and to calculate the bill for the treatment of the patient.

The main purpose of our system is to make Dental Clinic task easy and to develop the software that replaces the manual Dental System into automated Dental System. This document serves as the unambiguous guide for the development of this software system.

The software is used in dental clinic to maintain the records of patients in advanced fashion instead of paper document and the systemic alert module of this software gives the treatment details of the patient for their different diseases which is given by the different specialists which helps the doctor to treat their patient in a best way.

It also includes appointment schedule. It is easy to search and retrieve the information stored, related to patients when the patient visited more than once. So that the time required for searching the paper documents of the patient will be saved. Previous medical records is used to manage documents of patients visited earlier.

This is created using Python Django Framework on the backend and HTML, CSS on the frontend.

### **Existing System**

In the existing system the exams are done only manually but in proposed system we have to computerize the exams using this application.

- Lack of security of data
- More man power
- Time consuming
- Consumes large volume of pare work
- Needs manual calculations
- No direct role for the higher officials

### **Proposed System**

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system. The system provides proper security and reduces the manual work.

- Security of data
- Ensure data accuracy's
- Proper control of the higher officials
- Minimize manual data entry
- Minimum time needed for the various processing
- Greater efficiency, Better service
- User friendly and interactive
- Minimum time required

### **REQUIREMENT SPECIFICATIONS:**

The Software Requirement Specification is produced at the culmination of the analysis task. The function and performance allocated as part of system engineering are refined by establishing a complete information description, a detailed functional and behavioural description, an indication of performance requirements and design constraints, appropriate validation criteria and other data pertinent to requirements.

The proposed system has the following requirements:

- System needs store information about new entry of Dental Clinic.
- System needs to help the admin to keep information of Doctor and find them as per various queries.
- System need to maintain quantity record
- System need to keep the record of patient.
- System need to update and delete the records.
- System also needs a search area.

### **FEASIBILITY STUDY:**

After doing the project Dental Care Management System, study and analysing all the existing or required functionalities of the system, the next task is to do the feasibility study for the project. All the projects are feasible-given unlimited resources and infinite time.

Feasibility study includes consideration of all the possible ways to provide a solution to the given problem. The proposed solution

should satisfy all the user requirements and should be flexible enough so that future changes can be easily done based on the future upcoming requirements.

### **A.Economical Feasibility**

This is a very important aspect to be considered while developing a project. We decided the technology based on minimum possible cost factor.

- All the hardware and software cost has to be borne by the organisation.
- Overall we have estimated that the benefits the organisation is going to receive from the proposed system will surely overcome the initial costs and the later on running cost for system.

### **B.Technical Feasibility**

This included the study of function, performance and constraints that may affect the ability to achieve an acceptable system. For this feasibility study, we studied complete functionality to be provided in the system, as described in the System Requirement Specification and checked if everything was possible using different type of frontend and backend platforms.

### **C.Operational Feasibility**

No doubts the proposed system is fully GUI based that is very user friendly and all inputs to be taken are self-explanatory even to a layman. Besides, a proper training has been conducted to let know the essence of the system to the users so that they feel comfortable with new system. As far our study is concerned the clients are comfortable

and happy as the system has cut down their loads and doing. There is a Admin, Doctor and Patient

### **ADMIN**

- Add doctor details
- Add treatments
- Update appointments
- Manage payments
- Create reports about patients

### **DOCTOR**

- Can view appointments
- Update appointments
- Update prescriptions
- View patient details

### **USER**

- Register
- View doctor details
- View facilities and functions of clinic
- Book appointments
- Track application
- Can ask queries
- Download their report
- Upload previous medical reports