

DENTAL CLINIC MANAGEMENT SYSTEM

Dental Clinic Management System is a website which promotes easy data entry and usage. 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, Dental Problems, Treatment Details, dental care product shopping ,to upload previous medical reports, to calculate the bill for the treatment of the patient and to predict the diseases of our tooth using machine learning .

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.

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

Existing System

The existing system contains storing of information about new entry of Dental Clinic, help the admin to keep information of Doctor and find them as per various queries, appointment booking, updating and deleting bookings, managing services, managing doctors. Limitations of existing system includes:

- Couldn't calculate the bill
- Couldn't upload any reports
- Couldn't search doctors or services

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.

- Ensure data accuracy's
- Minimize manual bill calculations
- Minimum time needed for the various processing
- Greater efficiency
- Better service
- Can purchase dental care products
- Can predict the tooth diseases

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 need to calculate of bills.
- System need to provide shopping of dental care products.
- System need to predict the dental diseases.

FEASIBILITY STUDY:

Feasibility study is an evaluation and analysis of a project or a system. Feasibility study helps the developer to see the amount of work ,effort and the time spend on it to complete the project. It helps the developer for see the future of the project and the usefulness. The findings of the feasibility study can also be used to develop a practical project plan and budget. when a new application is proposed it normally goes through a feasibility study before it is approved for development. The document provides the feasibility of the project that is being designed and lists. Various areas that were considered during the feasibility study of this project such as Technical, Economic and Operational feasibilities.

Economic Feasibility

The developing system must be justified by cost and benefit.The system is economically feasible if the system can be developed with available fund of the organization and thus ensuring economic justification.Economic justification include cost benefit analysis.It

involve some basic resources such as cost of full system study, cost of system analyst time etc. The cost of the project home rental system is a low cost. Any of them can handle the project.

Technical Feasibility

Technical analysis is examination of the technical aspects of the project. The object of technical analysis is carried out to ascertain whether the project is technically one. The system has been developed using HTML, CSS, Python-Django and MySQL in server back end, the project is technically feasible for development.

Operational Feasibility

Once it is determined that the system is both technically and economically feasible then it has to be seen if it is operationally feasible. It is the measure of solution acceptability. It is the measure of how the end users and managers feel about the problems or solution.

There is a Admin, Doctor and Patient

ADMIN

- Add doctor details
- Add treatments
- Update appointments
- Manage payments
- Add products

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
- Pay the bill
- Download bill
- Can purchase products