Dental Clinic System

CHAPTER:1 INTRODUCTION.

1.1 Background:

- Presently the clinic functionality are done manually. That is, if the patient wants to consult a doctor he/she can visit there till his chance called.
- An appointments are distributed directly.
- The work in the clinic is done manually, paper works and registers are maintained for the patients.
- The main disadvantage is time consuming.
- Limitation of existing system is, if patient loses their receipt, difficulties to find out the patient token assign.
- To defect this limitation we do computer based web application.

1.2 Objectives:

- The aim of this system is to improve the management of the dental clinic and reduce the human efforts.
- The main objective of the project on Dental Clinic System is to manage the details of Dental Clinic, Doctor, Patients, Tests, Appointments.
- The objective of this system is to ensure the workflow in the clinic will be more systematic and organize.
- It tracks all the details about the patient, Tests and Appointments.

1.3 Purpose:

- Our purpose at creating this application is that it will automate the process in Dental Clinic.
- Using this it is possible to keep the track of a database for clinic like information about the patient and appointment schedule, personal records, previous medical records, treatment records, prescription, case reports.
- This project is being created for collecting, managing, saving, and retrieval of medical information for the patients, and for creating reports for the patients.

<u>1.4:</u> Scope:

- The scope of this project is patient and dentist/consultant management system of dental clinic and has to fulfill all their needs such as registering the patients and capturing their data.
- It may help in collecting perfect management details. In a very short period of time, the collection will be obvious, simple and sensible.
- It also helps in all current works related to Dental Clinic System.
- The level of accuracy in the proposed system will be higher. All the operation would be done correctly and it ensures that whatever information coming from the center is accurate.
- It will reduce the redundancy like no information is repeated in the storage. This would assure the economic use of storage space and consistency in the data stored.
- The retrieval of any type of information would be available whenever it is required.
- It will also reduce the cost of collecting the management and the collection procedure will go on smoothly.

1.5 Applicability:

- Dental Clinic System is an automated system designed and developed precisely for the smooth and efficient conduct of the procedure followed in **Dental Clinics**.
- It is provisioned with logins for user under profile as a patient for the Registration.
- The application can be made accessible to the outside world on the internet through the website.
- Appointment booking and payment gateway can be enabled directly to the patients with necessary notifications to the employees involved, along with the doctor.
- This system can used by the Doctors in their Dental Clinic.

CHAPTER:2 SURVEY TECHNOLOGIES

•	Form:
1.	Have you ever visited dental clinic before? a. Yes b. No
2.	Have you faced any Dental Health Problem? a. Yes b. No
3.	How many times have you visited a Dental Clinic? a. Once b. Twice c. More than 3 times d. Never
4.	What would you prefer if you have any dental problem? a. Home remedies b. Visiting a Dentist
5.	When you book an offline appointment, you have to wait at the dentist office for your turn. What do you feel? a. It is Time Consuming b. It is not Time Consuming.
6.	Have you ever placed an appointment related to dental issue online? a. Yes b. No
7.	Would you like to have a consultation online through chats/calls instead of meeting a doctor in a clinic? a. Yes b. Maybe c. No
8.	What do you think about booking an appointment through a registration form online on a website is time saving? a. Yes b. Maybe c. No
9.	Would you trust on the data/description provided on a particular website? a. Yes b. Maybe c. No d. Not at all
10	a. Internet Banking b. Cash Payment c. E-Wallet

- 11. Would you believe on the feedbacks of the user on a particular website/system?
 - a. Yes b. Maybe c. No

• Responses:

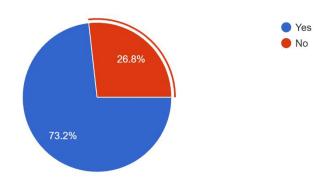
			1. Have you	2. Have you	3. How many	4. What would you	5. Have you	6. Would	7. What do you	8. Would you	9. What type of	10. Would you
			ever visited a	faced any	times have you	prefer if you have	ever placed	you like to	think about	trust on the	payment method	believe on the
			Dental Clinic	Dental Health	visited a Dental	any dental	an	have a	booking an	data/description	would you use after a	feedbacks of the user
1	Timestamp	Username	before?	Problem?	Clinic?	problem?	appointment	consultation	appointment	provided on a	Treatment?	on a particular
2	2020/11/25	dhruvthapa66@gma	No	Yes	Never.	Visiting a Dentist.	No	Yes	Yes	Maybe	Internet Banking	Yes
3	2020/11/25	5inghhapee13@gma	No	Yes	Never.	Visiting a Dentist.	No	Maybe	Yes	Maybe	Cash Payment	Yes
4	2020/11/25	manjushapawar658	No	No	Never.	Visiting a Dentist.	Yes	Yes	Yes	Yes	E-wallet.	Yes
5	2020/11/25	m.rajak1212@gmail	Yes	Yes	Twice	Visiting a Dentist.	No	No	No	No	Cash Payment	No
6	2020/11/25	palabhi1791@gmail	Yes	No	Once	Visiting a Dentist.	No	No	Yes	Maybe	Cash Payment	No
7	2020/11/25	gaureshkoltharkar@	Yes	Yes	More than 3 times	Visiting a Dentist.	No	Maybe	Yes	Maybe	Cash Payment	Yes
8	2020/11/25	apurvacheulkar17@	No	No	Never.	Visiting a Dentist.	No	Yes	Yes	Maybe	Cash Payment	Yes
9	2020/11/25	chavandipti20@gma	Yes	No	Once	Home Remedies	No	Yes	Yes	Yes	Internet Banking	Yes
10	2020/11/25	shubhamsawantt11	Yes	Yes	Once	Visiting a Dentist.	No	No	No	Maybe	Internet Banking	Yes
11	2020/11/25	riddhigohil04@gmai	No	No	Never.	Visiting a Dentist.	No	Maybe	Yes	Yes	Cash Payment	Maybe
12	2020/11/25	sagarjoshi91297@gr	Yes	No	More than 3 times	Visiting a Dentist.	Yes	No	Yes	No	E-wallet.	Yes
13	2020/11/25	devalghatge@gmail.	Yes	Yes	More than 3 times	Visiting a Dentist.	No	Maybe	Maybe	Yes	Cash Payment	Yes
14	2020/11/25	manasviparmar2001	Yes	Yes	Once	Visiting a Dentist.	No	No	No	Maybe	Cash Payment	Maybe
15	2020/11/25	shrutimhaske25@gr	Yes	Yes	More than 3 times	Visiting a Dentist.	No	Yes	Yes	Maybe	Internet Banking	Yes
16	2020/11/25	vaibhavi.bhabal2003	No	Yes	Never.	Home Remedies	No	Yes	Yes	Maybe	Internet Banking	Maybe
17	2020/11/25	divyadaka22@gmail	No	No	Never.	Home Remedies	No	Yes	Yes	Maybe	Internet Banking	Maybe
18	2020/11/25	bachchalwarrohit@	Yes	Yes	Twice	Visiting a Dentist.	No	Maybe	Yes	Yes	Cash Payment	Yes
19	2020/11/25	sinuvirkar@gmail.co	Yes	No	Once	Visiting a Dentist.	No	Maybe	Maybe	Yes	Cash Payment	No
20	2020/11/25	nehapraja1705@gm	Yes	Yes	Twice	Visiting a Dentist.	Yes	Maybe	Yes	Maybe	Cash Payment	Yes

21	2020/11/25 lakshikad19@gm	ail.	Yes	Yes	Twice	Visiting a Dentist.	No	Maybe	Yes	Maybe	Cash Payment	Yes
22	2020/11/25 shikhagohil96@g	ma	Yes	Yes	More than 3 times	Visiting a Dentist.	No	Maybe	Yes	Maybe	Internet Banking	Maybe
23	2020/11/25 shuvrabag2411@)gm	No	No	Never.	Visiting a Dentist.	No	Maybe	Yes	No	Cash Payment	No
24	2020/11/25 lovyy17@gmail.d	om	Yes	Yes	More than 3 times	Visiting a Dentist.	No	Maybe	Yes	Maybe	Cash Payment	Yes
25	2020/11/25 basvarajpujari60	7@	Yes	Yes	More than 3 times	Visiting a Dentist.	No	Yes	Yes	Yes	Internet Banking	Yes
26	2020/11/25 mandarpooja@g	ma	No	No	Once	Visiting a Dentist.	No	Maybe	Yes	Not at all.	Internet Banking	Maybe
27	2020/11/25 hritikdhanawade	3@	Yes	Yes	Once	Home Remedies	Yes	Maybe	Maybe	Yes	Cash Payment	Yes
28	2020/11/25 yogeshmandavk	ar12	Yes	Yes	More than 3 times	Visiting a Dentist.	Yes	Maybe	Yes	No	Cash Payment	Maybe
29	2020/11/25 madhavkarmalka	er09	No	No	Never.	Home Remedies	No	Maybe	Maybe	Maybe	Internet Banking	Maybe
30	2020/11/25 sanchitaband110)@Ę	No	No	Never.	Visiting a Dentist.	Yes	Maybe	Yes	Maybe	Cash Payment	Yes
31	2020/11/25 deepak773893@	gm	Yes	Yes	Twice	Visiting a Dentist.	No	Maybe	Yes	Maybe	Internet Banking	Maybe
32	2020/11/25 cravisingh64@gr	nail	No	No	Never.	Visiting a Dentist.	No	Maybe	Yes	Maybe	Internet Banking	Yes
33	2020/11/25 yashkarwarkar@	gm	Yes	Yes	Once	Home Remedies	No	Yes	Yes	Yes	E-wallet.	Maybe
34	2020/11/25 ps1996438@gma	ail.c	Yes	Yes	More than 3 times	Home Remedies	No	Yes	Yes	Yes	Internet Banking	Maybe
35	2020/11/25 pankajmandve30	٤@(Yes	No	Once	Visiting a Dentist.	No	No	Yes	Not at all.	Internet Banking	Maybe
36	2020/11/25 tanvigurav017@	gma	No	No	Never.	Home Remedies	No	Maybe	Yes	Not at all.	Cash Payment	No
37	2020/11/26 rahul132000@gr	nail	Yes	Yes	Twice	Visiting a Dentist.	No	Yes	Maybe	No	Cash Payment	No
38	2020/11/26 jayasoni9211@g	mai	Yes	Yes	More than 3 times	Visiting a Dentist.	No	Maybe	No	Maybe	E-wallet.	No
39	2020/11/26 guptasandip0000)@E	Yes	Yes	Twice	Visiting a Dentist.	No	Yes	Yes	Yes	E-wallet.	Yes
40	2020/11/26 shubhammehra8	17(Yes	Yes	More than 3 times	Visiting a Dentist.	Yes	No	Maybe	Not at all.	Cash Payment	Yes

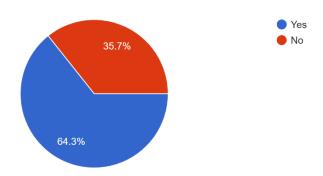
41	2020/11/26 nileshgorule8730@	Yes	No	Once	Visiting a Dentist.	No	Yes	Yes	No	E-wallet.	Yes
42	2020/11/26 omkarmotiwale24@	No	No	Never.	Visiting a Dentist.	No	Maybe	Maybe	Not at all.	Cash Payment	Maybe
43	2020/11/26 mithaliganesh@gma	Yes	Yes	More than 3 times	Visiting a Dentist.	No	Maybe	Yes	Maybe	E-wallet.	Yes
44	2020/11/26 guptasapana2012@	Yes	No	Twice	Visiting a Dentist.	No	Maybe	Yes	No	E-wallet.	Maybe
45	2020/11/26 shantanubirmole@g	Yes	No	Never.	Visiting a Dentist.	No	Yes	No	Yes	Internet Banking	Yes
46	2020/11/26 simonsmonteiro@g	Yes	Yes	More than 3 times	Visiting a Dentist.	No	Maybe	Yes	No	E-wallet.	Yes
47	2020/11/26 kajalbarkade0828@	Yes	Yes	More than 3 times	Visiting a Dentist.	Yes	Maybe	Yes	Not at all.	Cash Payment	Yes
48	2020/11/26 rosyvisionhairnspa@	Yes	Yes	More than 3 times	Visiting a Dentist.	No	Maybe	Yes	No	Cash Payment	Maybe
49	2020/11/26 rockingtejas2001@	No	No	Never.	Visiting a Dentist.	No	No	Yes	No	Cash Payment	Maybe
50	2020/11/26 adhishanaik2000@g	Yes	Yes	Twice	Visiting a Dentist.	No	Maybe	Yes	Maybe	Internet Banking	Maybe
51	2020/11/26 efeyaz@gmail.com	Yes	Yes	More than 3 times	Visiting a Dentist.	No	No	Yes	Maybe	Cash Payment	Yes
52	2020/11/26 shahbazkhn303@gr	Yes	Yes	Once	Visiting a Dentist.	No	Maybe	Maybe	Maybe	Cash Payment	No
53	2020/11/27 nimishasureshgohile	Yes	Yes	More than 3 times	Visiting a Dentist.	No	Yes	Yes	Maybe	Cash Payment	Maybe
54	2020/11/27 sushilgupta6534@g	Yes	Yes	Twice	Visiting a Dentist.	No	Maybe	Yes	Not at all.	Cash Payment	Yes
55	2020/11/27 aartigupta8451@gr	Yes	Yes	More than 3 times	Visiting a Dentist.	No	Yes	Yes	No	Cash Payment	Yes
56	2020/11/28 gohil.harsh06@gma	Yes	Yes	Once	Visiting a Dentist.	No	Maybe	Yes	Maybe	E-wallet.	Maybe
57	2020/11/29 dr.shalinipal@yaho	Yes	Yes	More than 3 times	Visiting a Dentist.	Yes	Yes	Yes	Yes	E-wallet.	Yes

• Statistics:

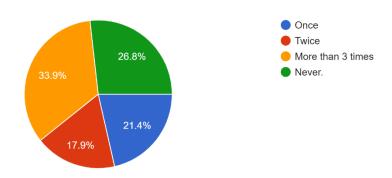
1. Have you ever visited a Dental Clinic before? 56 responses



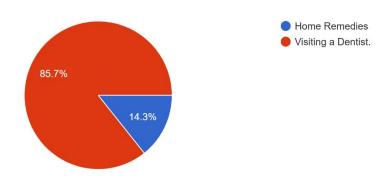
2. Have you faced any Dental Health Problem? 56 responses



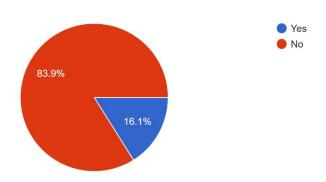
3. How many times have you visited a Dental Clinic? 56 responses



4. What would you prefer if you have any dental problem? 56 responses

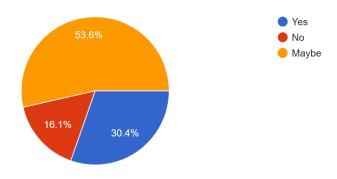


5. Have you ever placed an appointment related to dental issue online? 56 responses



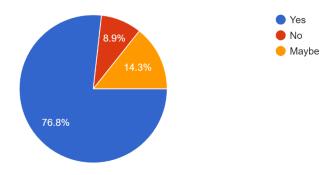
6. Would you like to have a consultation online through chats/calls instead of meeting a doctor in a clinic?

56 responses

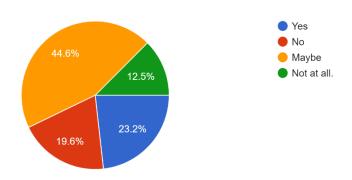


7. What do you think about booking an appointment through a registration form online on a website is time saving?

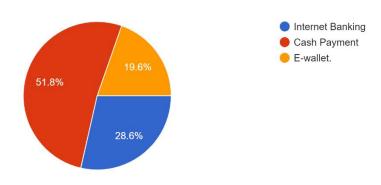
56 responses



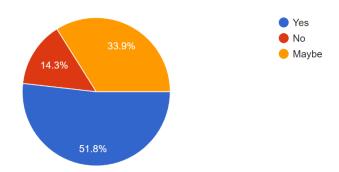
8. Would you trust on the data/description provided on a particular website? 56 responses



9. What type of payment method would you use after a Treatment? 56 responses



10. Would you believe on the feedbacks of the user on a particular website/system? 56 responses

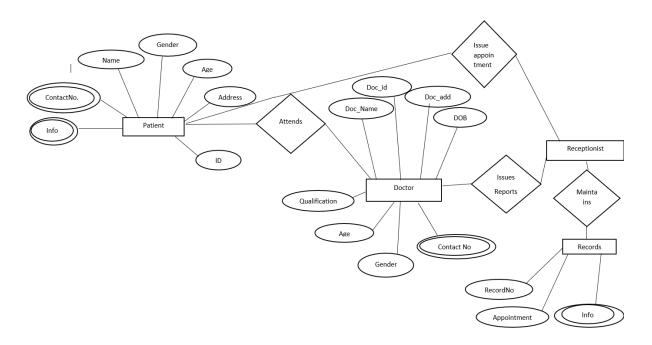


• Result:

- 1) In the above survey, 56 people have responded the survey in which 73.2% respondents have visited the dental care and 26.8% respondents have never visited any dental clinic before.
- 2) 64.3% of respondents have faced a dental health problem and around 35.7% respondents never faced any dental health problems.
- 3) From 100% respondents, 21.4% of respondents have visited dental clinic only once, 17.9% of respondents visited twice and 33.9% more than thrice.
- 4) In survey it is found that if anyone will suffer from dental problem, 85.7% respondents will visit dentist and 14.3% of respondents will use home remedies.
- 5) 83.9% of respondents have never placed any appointments online and 16.1 of respondents have placed their appointments online.
- 6) It is found that 30.4% would like to take consultation of a doctor on call/chats and 53.6% of respondents are not sure about taking a consultation through calls, while 16.3% of respondents would not like to take consultation through calls.
- 7) 76.8% of respondents thinks that booking an appointment through appointment form is time saving, while 14.3% of respondents are not sure that it is time saving and rest of the respondents thinks that it is not time saving.
- 8) It is found that 23.2 % of respondents will believe/trust on the data provided on particular website about their service and it is also found that 19.6% of responders won't trust while 12.5% won't trust at all and rest are not sure about the data.
- 9) After visiting the dental clinic and getting done treatment, 51.8% of respondents willing to pay their bill by Cash, and 28.6% are willing to pay their Internet Baking and the remaining respondents are willing pay by E-Wallet.
- 10) 51.8% of respondents will believe on the feedbacks on a particular website wile 14.3% will not believe and rest of the respondents are not sure to believe or not.

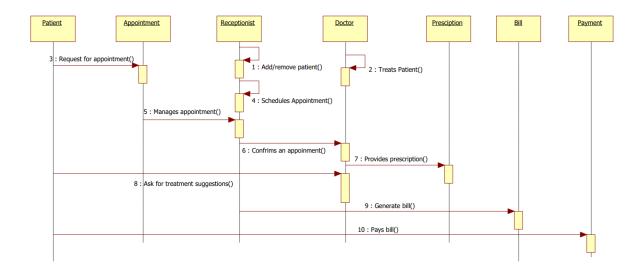
CHAPTER:3 REQUIREMENT AND ANALYSIS

ER DIAGRAM:



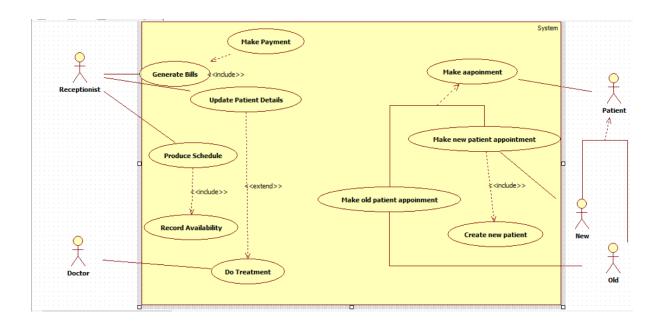
- An entity relationship model, also called as entity-relationship diagram, is a graphical representation of entities and their relationship to each other, typically used in computing in regard to the organization of data within databases or information systems.
- It shows the attributes in tables of the database.
- The entity-relationship data shows representation of database tables and the relations between patient, Doctor and the receptionist.

SEQUENCE DIAGRAM:



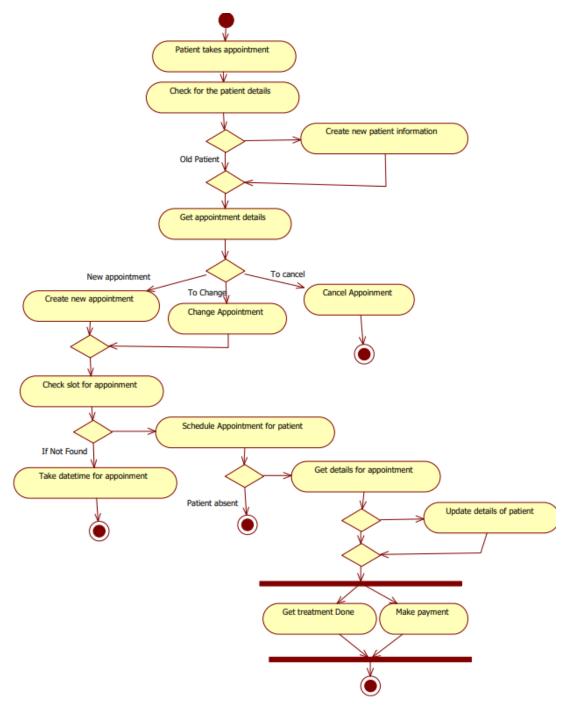
- The sequence diagram represents the flow of messages in the system and is also called as an event diagram.
- The sequence diagram shows the interaction login between the objects of clinic, appointments, patients, receptionists.

USE CASE DIAGRAM:



- A use case diagram is a graphic depiction of the interactions among the elements of a system.
- A use case is a methodology used in system analysis to identify, clarify, and organize system requirements.
- The actors, usually individuals involved with the system defined according to their roles.
- The patient can perform, make an appointment and the receptionist can perform, can generate bills, produce schedule and update patients.

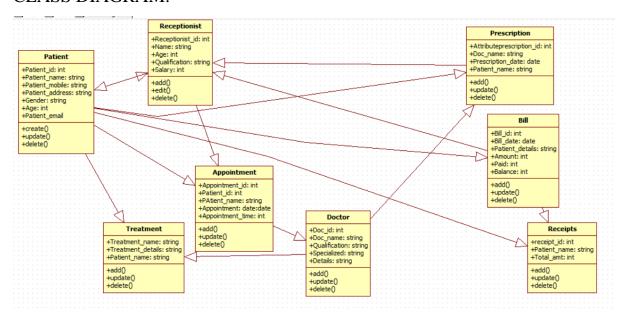
ACTIVITY DIAGRAM:



- An activity diagram is an UML diagram which describes the aspects of the system.
- It is basically a flowchart diagram which describes the flow from one activity to other activity. It is also described as an operation of the system.
- The flow in the diagram can be sequential, branched and concurrent.

- It shows the flows between the activity of patient, receptionist and the doctor.
- The activities are as follows: Patient activity, Doctors activity, Receptionist activity.

CLASS DIAGRAM:

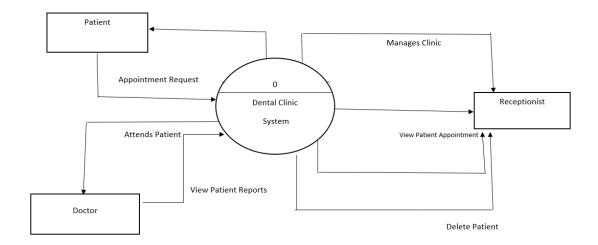


- A class diagram in the Unified Modelling Language (UML) by showing is a type of static structure diagram the describes the structure of a system showing the system's classes, their attributes, operations, and the relationship among objects.
- The main classes are Patient, Receptionist, Doctor, Treatment and Treatment.

DATA FLOW DIAGRAM:

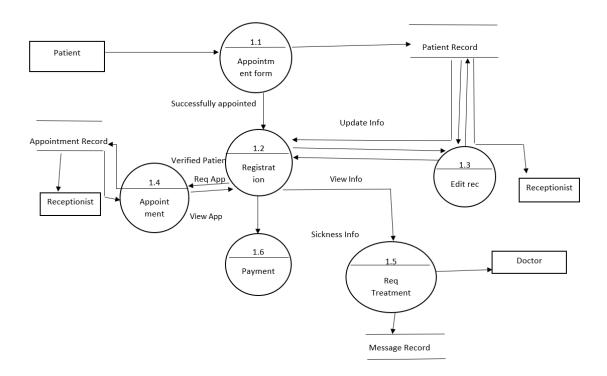
- A data flow diagram is a graphical representation of the flow of data through an information system.
- It shows how information is input to and output from the system, the sources and destinations of that information, and where that information is stored

LEVEL 0:



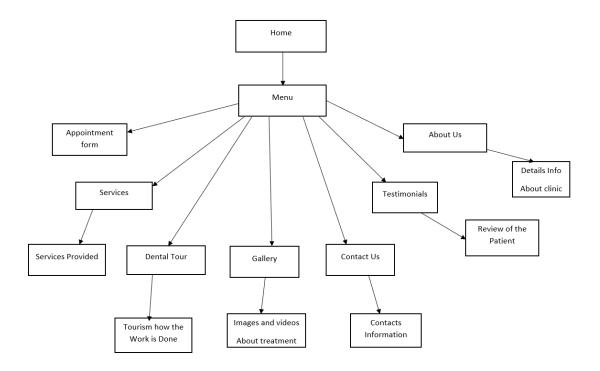
- Highest abstraction level DFD is known as level 0 DFD, which depicts the entire information system as one diagram concealing all the underlying details.
- It is the 0 level DFD of Dental Clinic System, where we have described about the high-level processes of the system.
- It represents the overview of a whole system that is being analysed or modelled.

LEVEL 1:



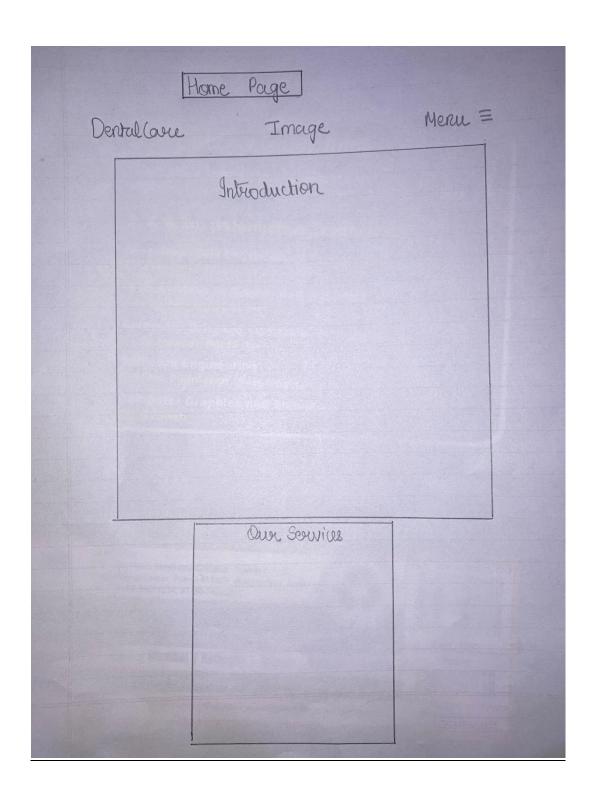
- The Level 0 DFD is broken down into more specific, Level 1 DFD. Level 1 DFD depicts basic modules in the system and the flow of data among various modules.
- Level 1 DFD also mentions the basic processes and sources of information.
- Level 1 DFD shows how the system is divided into subsystem, each of which deals with one or more of the data flows.
- It also shows the internal data stores of Appointment, Receptionist and the Doctor.

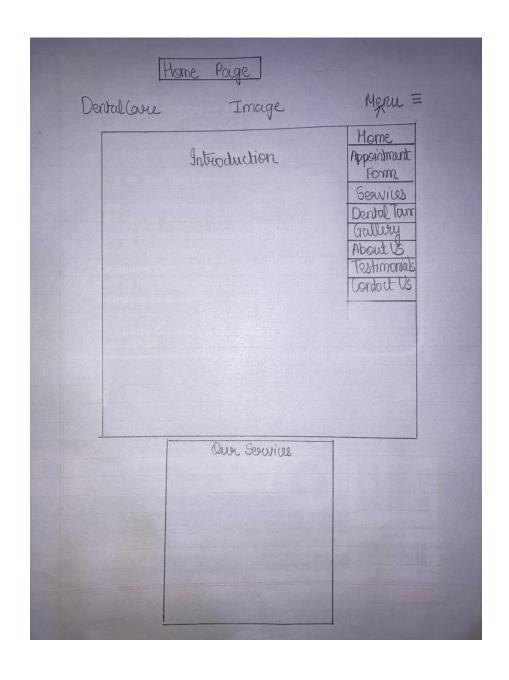
FLOWCHART:



- It represents the flow of the system as a whole and also shows how the system will work.
- It shows the flow from the start to end.

CHAPTER:4 DESIGNING





Appointment form
First Name:
Last Name:
Email 9d:
Phone No:
Appointment Date:
Time:
Message: Type your Message here
Enter Captha: Capcha Code:
Code
anathala) anath
I Submit
202 1822

Sourices.

Routine Dental Checkups Dental Fillings Root Canal Treatment

Teeth Replacement > Crowns And Bridges

> Dentaus > Dental Implants

Cosmetic Treatment > Touth Color Filling

> Smile Markeover

> Teeth whitening > Cosmatic/Porcetofins Veneurs > Tooth Jewelbuy

Full Mouth Rehabiliation

Gum Freatment

Kids Treatments

Outhodonties (Braces)

Swigury

Callery

before / After Images and videos of the treatments.

Abo	ut Us	
Detailed	Information linic	about

Contact Us
Connect With Us:
Name:
Mobile No:
Email Id:
Message: Type your Message here
Submit
Maria Shi a Maria Shi and Andrews

Select Patient			V	
Date:		10 to		
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Treatment:				
Description:				

Patient	Bill
Select Patient:	Name of the last o
Dale:	specific and the specific
Bill Type:	
Amout Payable:[
Payment Mode: [
Description:	
Submit	Reset
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