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Health Care

Software Engineering Project

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HEALTH CARE

SOFTWARE ENGINEERING PROJECT REPORT

SHAHEED RAJGURU COLLEGE
OF APPLIED SCIENCES
FOR WOMEN

SUPERVISOR : TutorialsDuniya.Com

SUBMITTED BY: Sweta Kumari (12345)

Sweta Kumari (12345)

DEPARTMENT OF COMPUTER SCIENCE

UNIVERSITY OF DELHI

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ACKNOWLEDGEMENT

Our views on how, why and when various phases of software development should be executed have changed tremendously (and definitely for better) and to this end we'd like to mention the name of our teacher, '**TUTORIALSDUNIYA.COM**', who with her patience and excellent knowledge walked us through this path of learning.

Sweta Kumari

Sweta Kumari

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REQUIREMENT DOCUMENT

APP NAME: HEALTH CARE

Users: people who need to visit for medical facilities in their location

Healthcare is an app which will provide platform where people can search for medical care . It also provides facilities for booking appointment of doctors .

This app first asks the user to login or signup which will help them to get notifications about medical services present in their location. Based on their location , the users can access physicians, dentist , pathlabs and medical stores. The user can also book appointment doing payment through debit card. They can also make changes in appointment schedule i.e. cancel or postpone the appointment according to their preferences.

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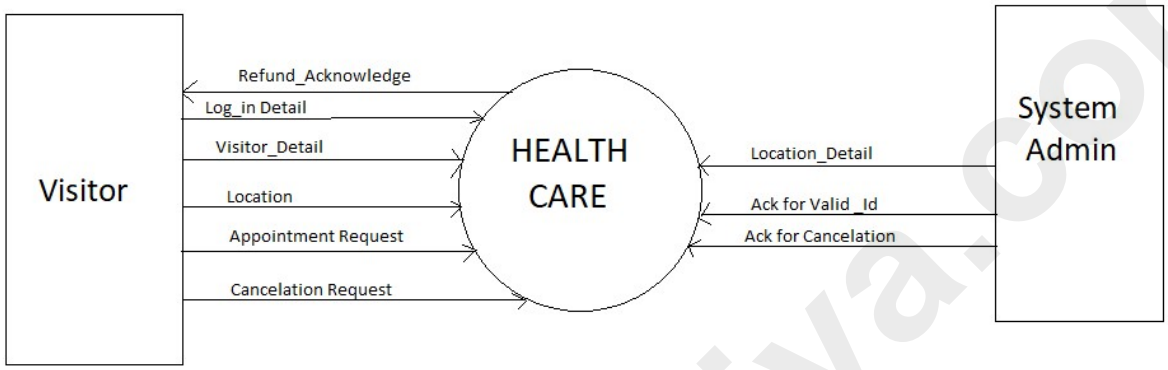
CONTEXT LEVEL DFD



Data Dictionary:-

Login_Details = email + password

Visitor_Details= Name + Phone_no + Address

Details_of_Location = Doctor_service + Path_labs

+Medical_stores

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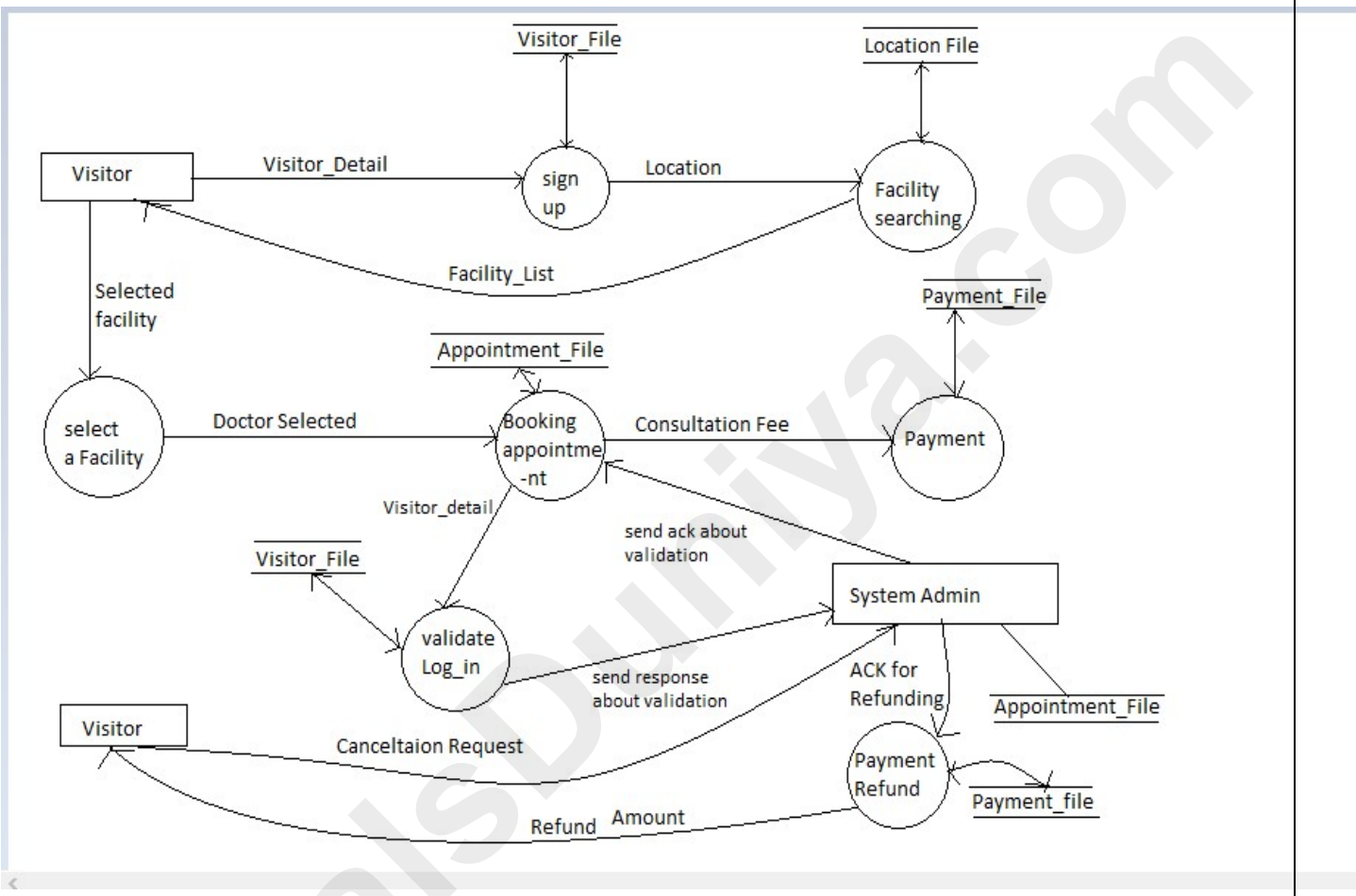
LEVEL :-1



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Data Dictionary:-

Visitor_details = Name + Contact_no
+Address

Facility_list = Doctor_service + path_labs
+ Medical_store

Payment_file =visitor_details +Doctor_details
+ Consultation_fee

Appointment_file = visitor_details + Doctor_details
+Appointment_date

Send_acknowledge_for_validation = Yes/No

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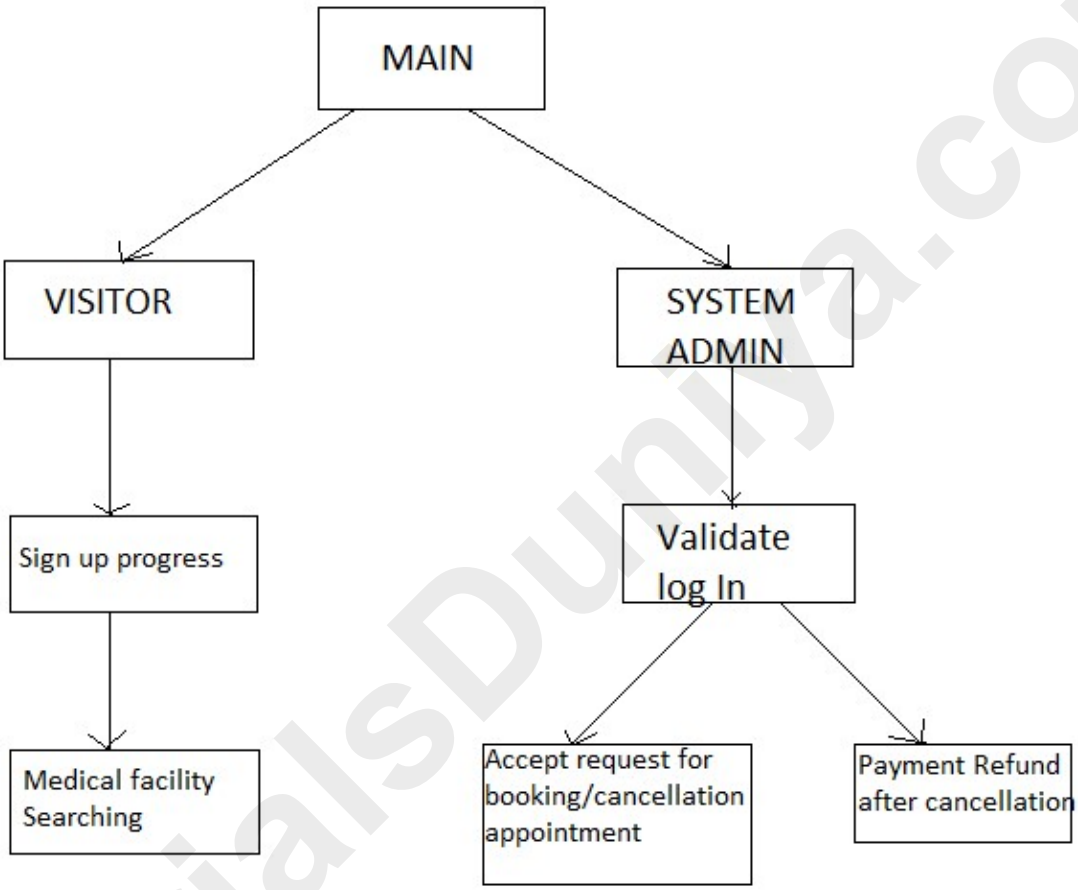
ARCHITECTURE DESIGN



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- 3 Level Authentication
- Airline Reservation System
- Banking Management System
- Bus Route Enquiry System
- Car Showroom Dealership
- Cricket Management System
- Criminal Record Management
- E-Boutique
- Exam & Result Management
- Health Care
- Hospital Management System
- Online Bookstore
- Online Complaint Portal
- Online Event Booking
- Online MetroCard Recharge
- Online Missing Person Info
- Online Shopping
- Online Shopping System
- Our First Home
- Railway Reservation System
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RISK TABLE

RISK	CATEGORY	PROBABILITY	IMPACT	RMMM
Large number of users than planned	PS	20%	4	
Lack of training on tools	DE	80%	3	
Staff inexperienced	ST	60%	2	
Requirements understanding	PS	50%	2	
Difficulty integrating work	TE	60%	2	
Planning taking up too much time, not enough to work on product	PS	40%	3	

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VALIDATION CODE

CHECKING PASSWORD VALIDATION

```
1.  Ifstream  fin("VISITOR_FILE",ios::binary);                    1
2.  String id,password;
3.  Flag=0;
4.  gets(id);
5.  gets(password);
6.  while (fin. read((char*)&e,sizeof(e))                         2
7.  {
8.  If(id==e.id && password==e.password)                          3,4
9.  {
10. Flag=1;                                                       5
11. Given access to system continue;
12. }
13. }                                                             6
14. If(flag==0)                                                   7
15. cout<<"access denied";                                        8
16. fin.close();                                                  9
17. return;
```

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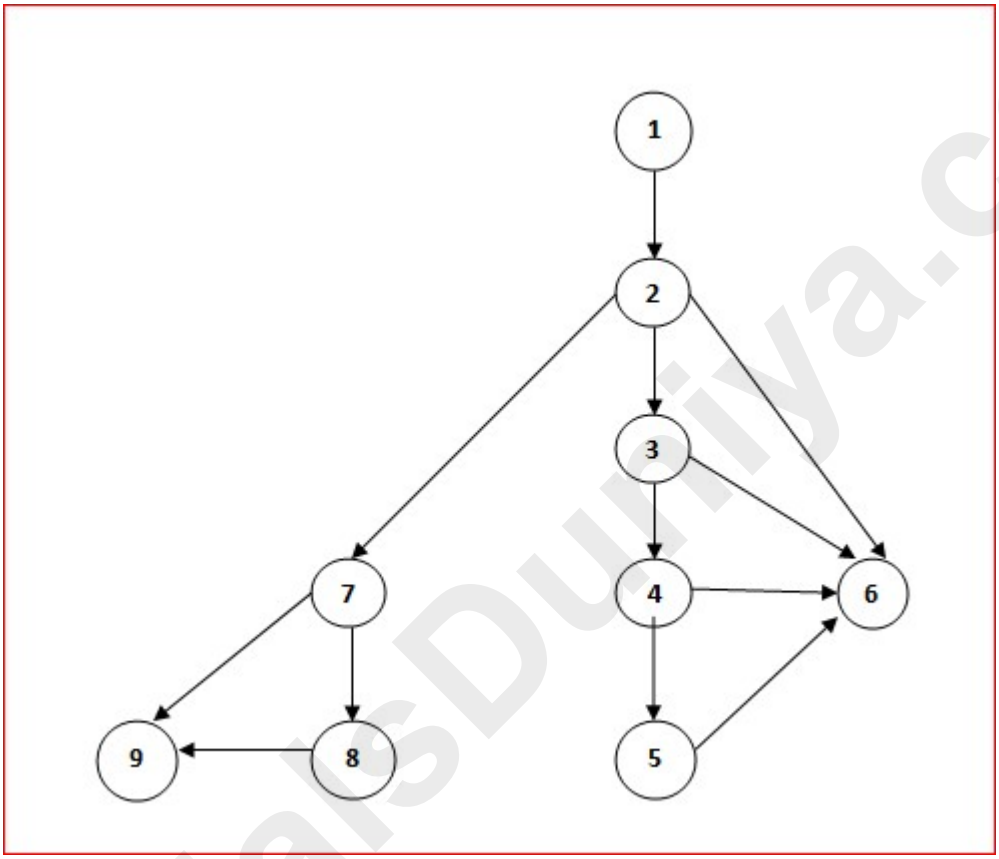
FLOW GRAPH



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Cyclomatic Complexity:-

Number of regions = E-V+2

= 12-9+3

= 5

Number of regions = number of predicate nodes +1

= 4+1

= 5

Number of independent paths=5

Independent paths

- **1-2-7-8-9**
- **1-2-7-9**
- **1-2-3-4-5-6-2-7-9**
- **1-2-3-6-2-7-9**
- **1-2-3-4-6-2-7-9**

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COMPUTING FUNCTIONAL POINT

INFORMATION DOMAIN VALUES	COUNT	WEIGHING FACTOR-SIMPLE	
External inputs	3	3	9
External outputs	2	4	8
External Inquiries	2	3	6
Internal logical files	4	7	28
External interface file	0	5	0
Count total			51

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S.No.	QUESTIONS	MARKS
1	Does the system require reliable backup and recovery?	5
2	Are specialized data communications required to transfer information to or from the application?	5
3	Are there distributed processing functions?	0
4	Is performance critical?	5
5	Will the system run in an existing, heavily utilized operational environment?	4
6	Does the system require online data entry?	5
7	Does the online data entry require the input transaction to be built over multiple screens or operations?	5
8	Are the ILFs updated online?	5
9	Are the inputs, outputs, files, or inquiries complex?	1
10	Is the internal processing complex?	2
11	Is the code designed to be reusable?	2
12	Are conversion and installation included in the design?	1
13	Is the system designed for multiple installations in different organizations?	5
14	Is the application designed to facilitate change and ease of use by the user?	5
	TOTAL f(i)	50

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FP=count total *(0.65+0.01 * total f(i))

=51 *(0.65+0.01*50)

=51*1.15

=58.65 = 59(approx.)

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INTERFACES

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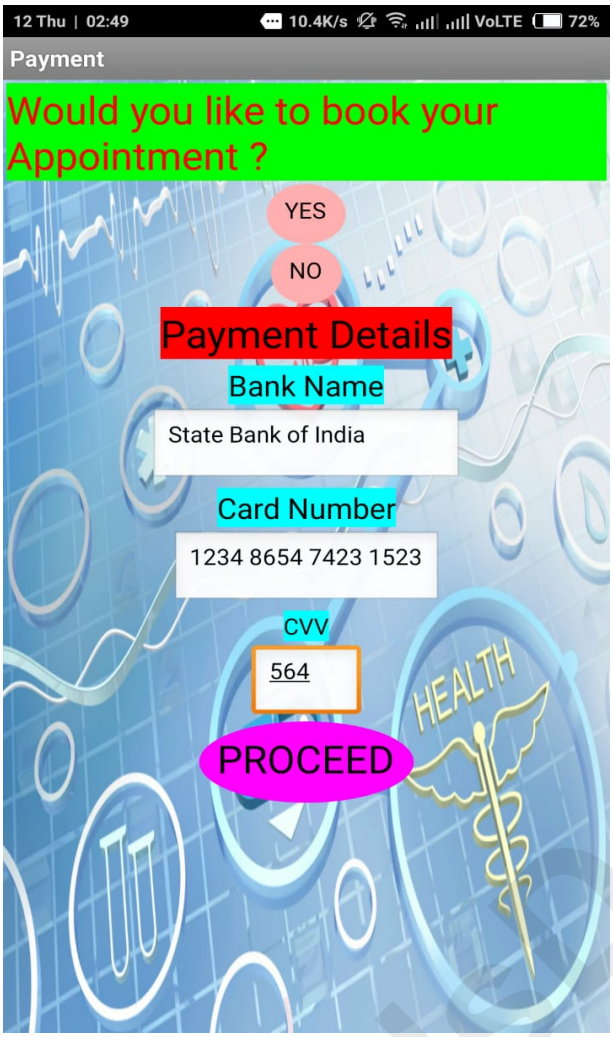

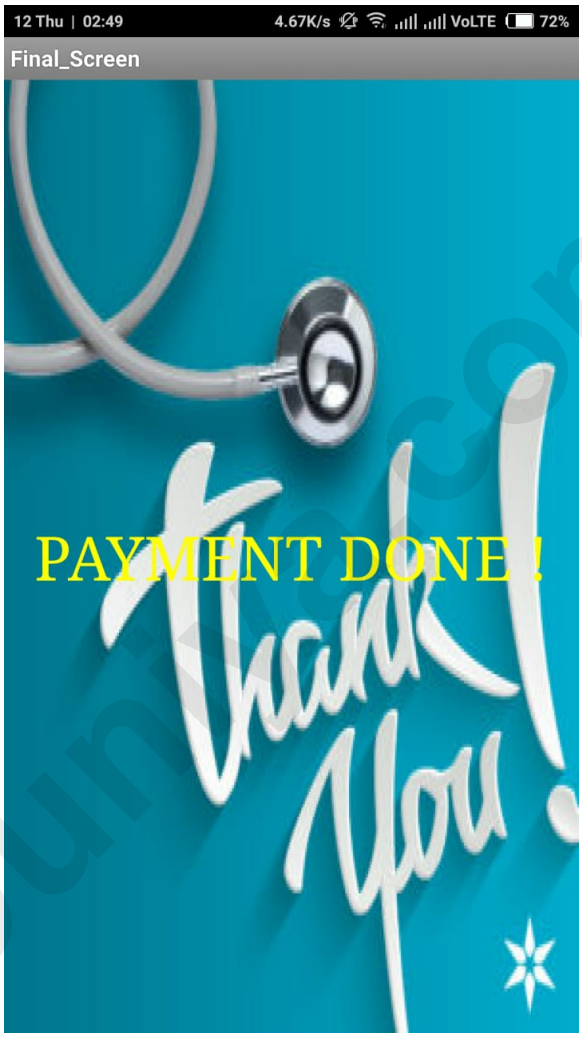

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- Online MetroCard Recharge
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