

Data Flow Diagram

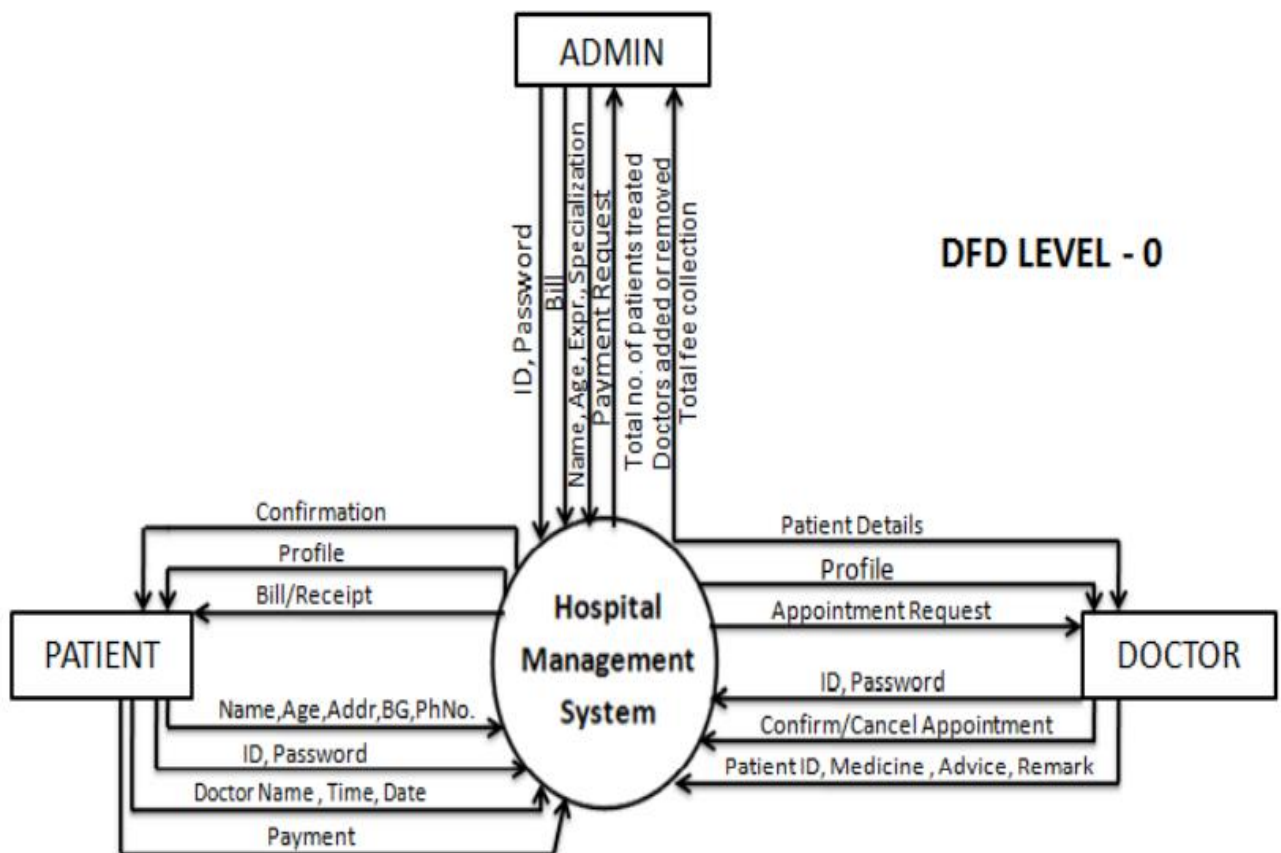
FOR

HOSPITAL MANAGEMENT SYSTEM

Prepared by Rishabh Yadav

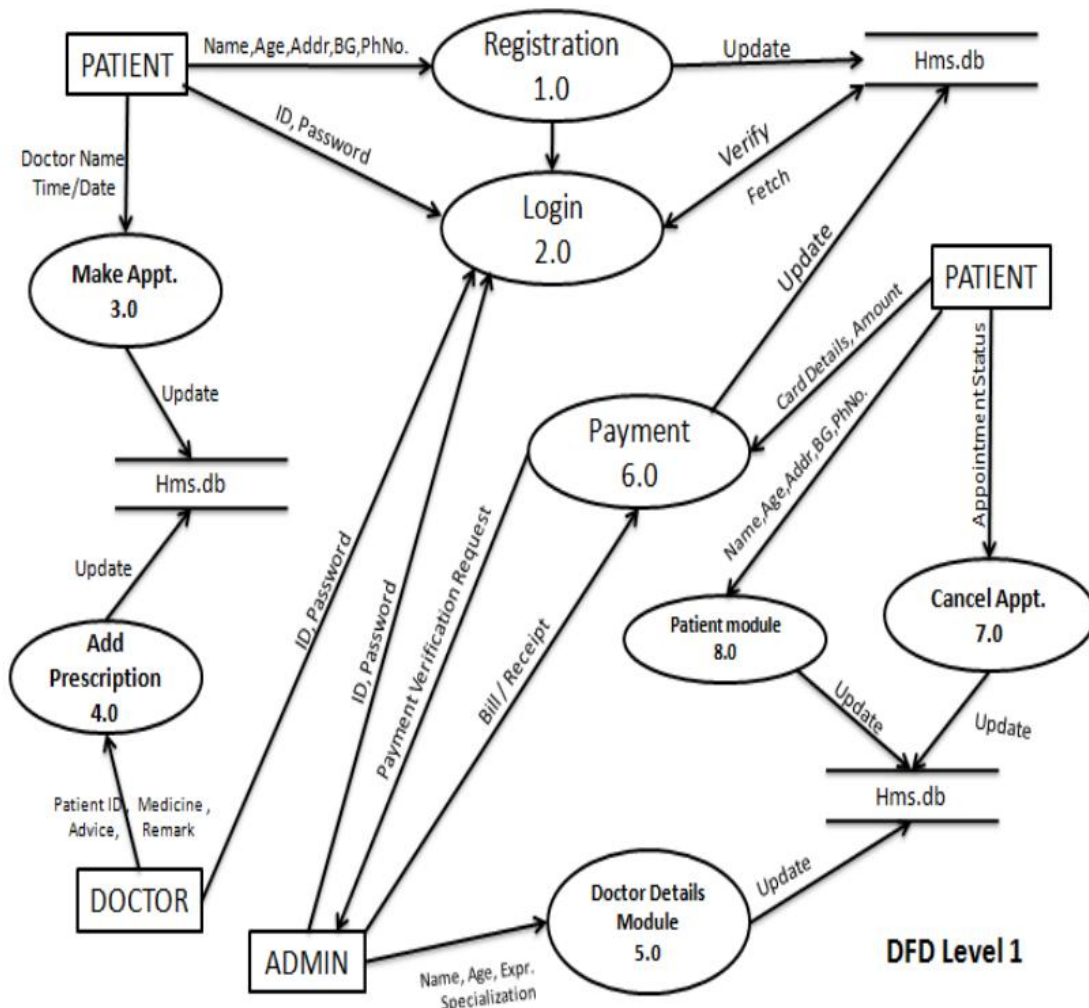
Data Flow Diagram - Level 0

The zero level DFD for hospital management system depicts the overview of whole hospital management system. It is supposed to be an abstract view of overall system. This is also called as context diagram for hospital management system in which entire system is represented as single process with its relationship with external entities such as admin, patient, doctor, etc.



Data Flow Diagram - Level 1:-

The first level DFD of hospital management system shows more details of processing . Level 1 DFD list all the entire system . It also identifies data store of hospital master data that contains all records of patient,doctor , prescription,cancel appointment,payment,etc. That will be used to during different other process like patient registration.



The important process to be carried out are:

1. Login
2. Registration
3. Make appointment
4. Add prescription
5. Payments
6. Cancel appointment
7. Patient module
8. Doctor details

The level 1 DFD for hospital management system provides a board overview but goes into greater depth than context level switching.

Data Flow Diagram - Level 2

• Registration

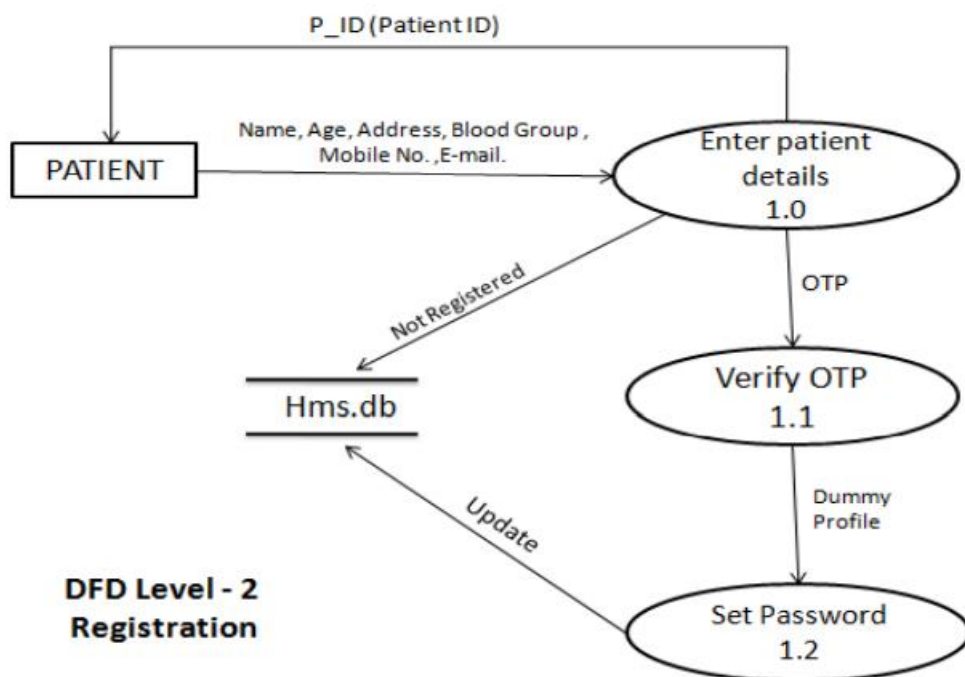
DESCRIPTION - The new patient can register themselves and add their details like name, age, gender, blood group etc. The patient entry will be made in the hms database.

PRE -CONDITION – The patient must be a new patient, If necessary fields left by user then prompt user to fill the necessary fields.

MAIN FLOW OF EVENTS

1. Patient selects sign up in login module.
2. A registration form get displayed
3. Patient fills the required details.

POST CONDITIONS - Patient record is added to hms database.



• LOGIN

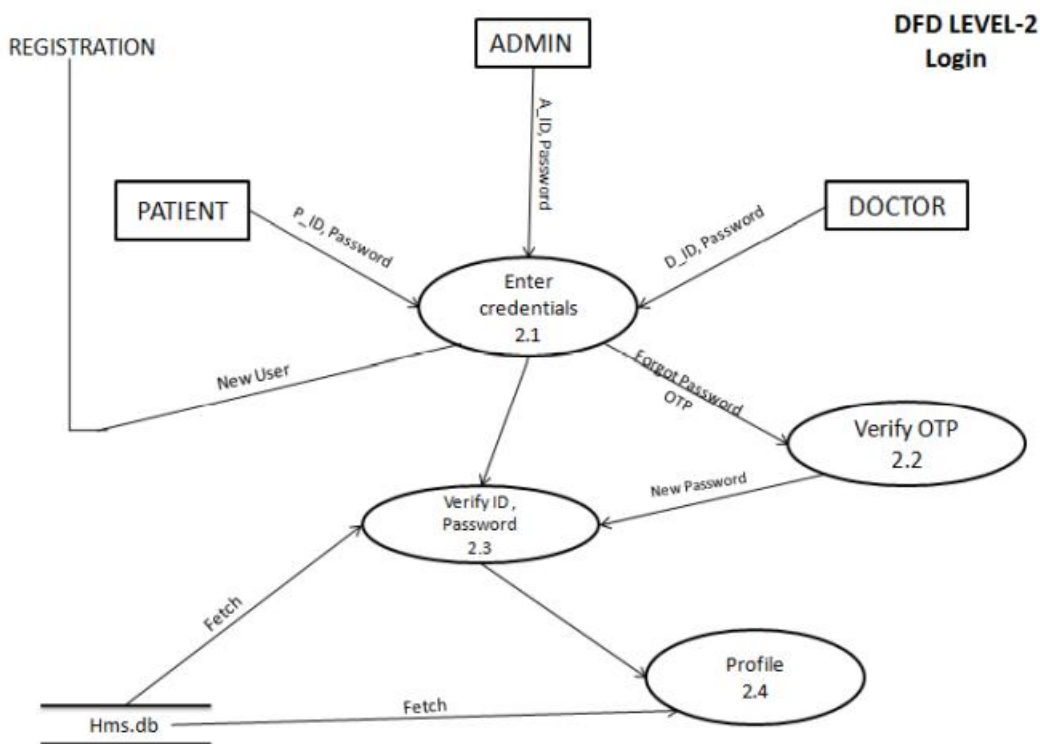
DESCRIPTION-The patient should be enabled to update his/her details and the changes should reflect in hms database.

PRE-CONDITION – The patient must be a registered patient, The patient cannot update details after treatment starts.

MAIN FLOW OF EVENTS

1. Patient logs in to the system.
2. Patient view his record
3. Patient selects update details.
4. Now patient may change the necessary fields.
5. Pop of update details.

POST CONDITION - The record of patient is updated in hms database



• APPOINTMENT

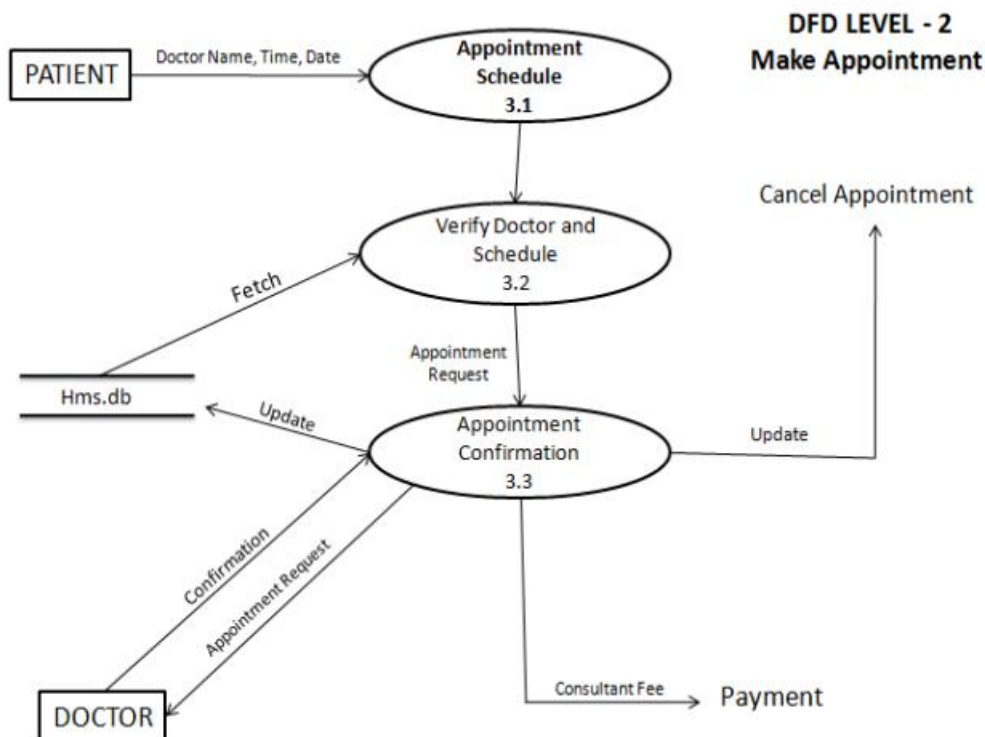
DESCRIPTION - It shows users a list of available doctors, timings, dates and enables patients to select the most suitable appointment date and doctor. The patient may also the cancel the appointment.

PRE-CONDITION - The patient must be a registered patient, Patient can fix only one appointment for a particular department.

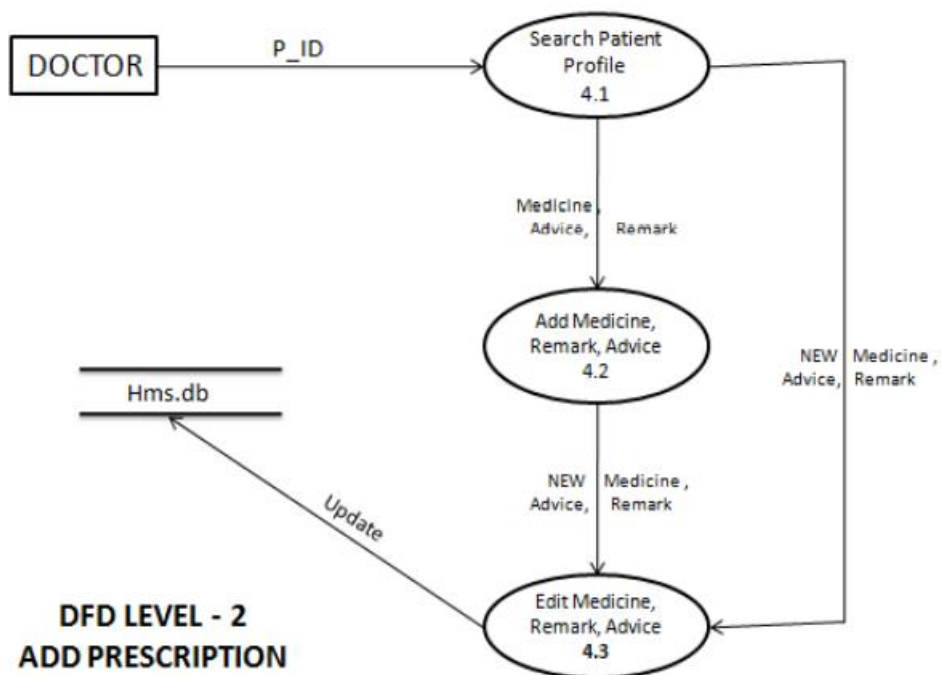
MAIN FLOW OF EVENT

1. Patient first logs in to system.
2. View his/her record.
3. Create a new appointment or cancel the appointment.

POST CONDITIONS - patient details are displayed and a new appointment is fix or a existing appointment is cancelled. The hms database is updated.



• PRESCRIPTION



• DOCTOR MODULE

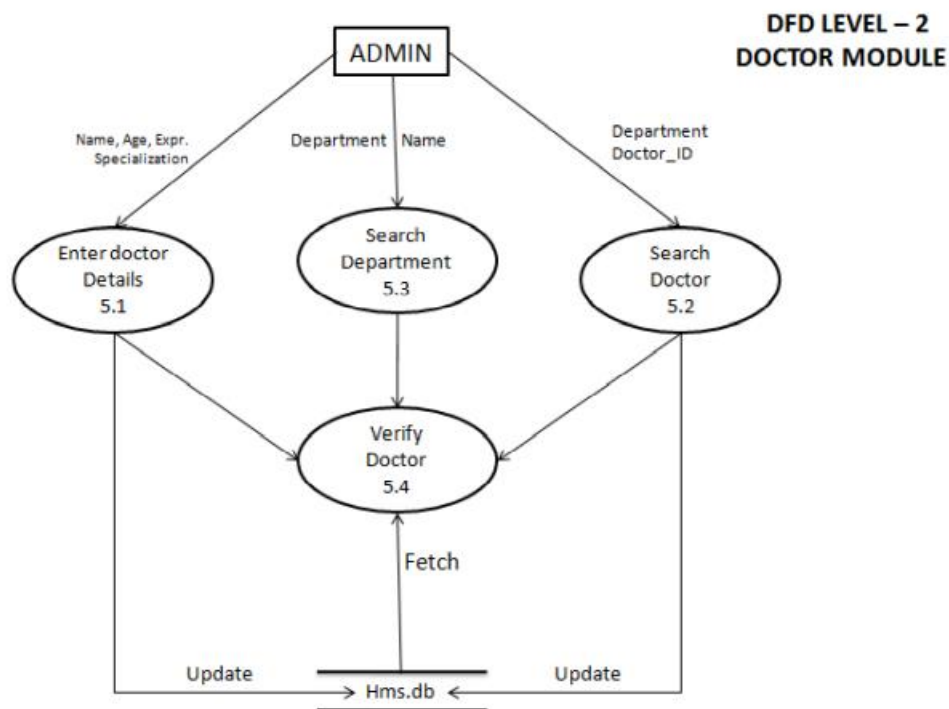
DESCRIPTION- The doctor view patient record update his details and add description of the treatment given to patient.

PRE-CONDITION – The doctor must be a registered doctor, System does not allow the doctor to modify the qualification, hospital managed details.

MAIN FLOW OF EVENTS

1. Doctor logs in to the system.
2. Doctor may select view patient.
 - 2.1 Patient record is displayed with treatment history.
3. Doctor add description of patient treatment.
4. Doctor may select appointment details
 - 4.1 Appointment Requests is displayed with schedule.
5. Doctor confirm or cancel appointment.

POST CONDITION – The patient and doctor 's database are updated.



• PAYMENTS

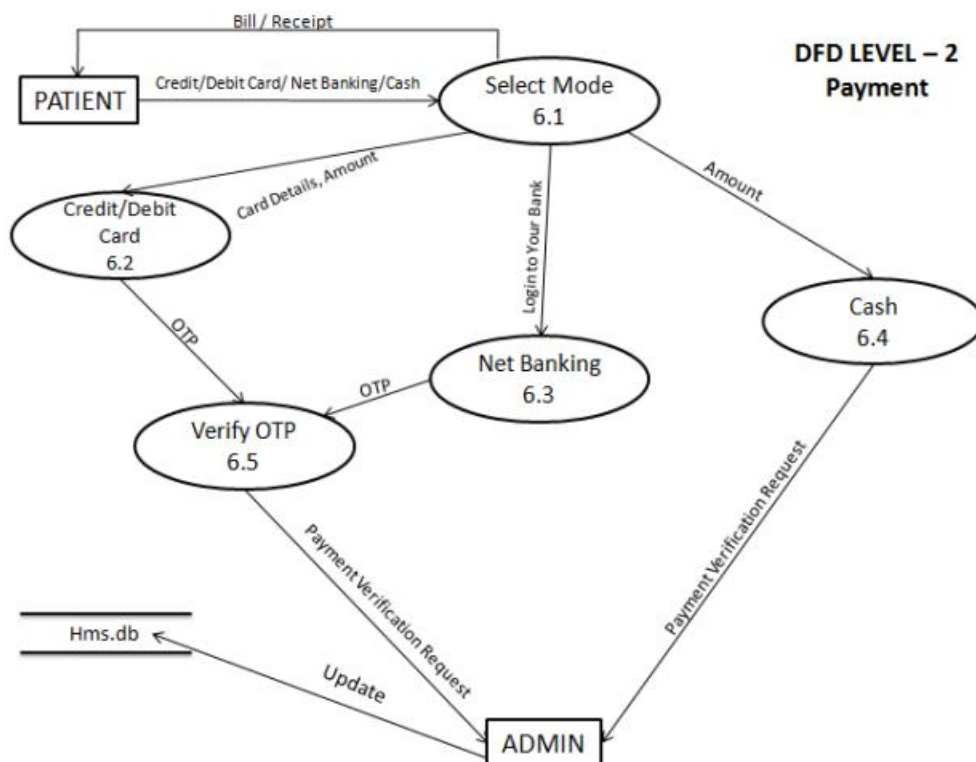
DESCRIPTION – It enables user to pay the consultant fee of Doctor online.

PRE-CONDITION - The patient must be a registered patient, If Patient don't wants to pay online he/she can pay by cash also.

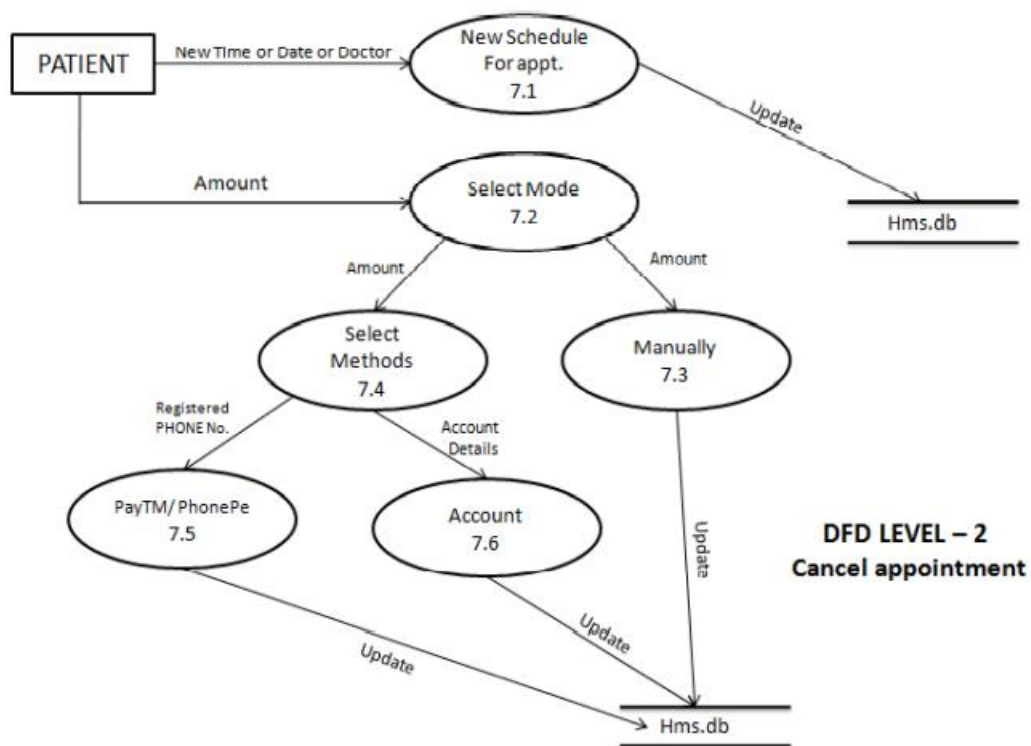
MAIN FLOW OF EVENT

1. Patient first logs in to system.
2. View his/her record.
3. Appointment confirmed by the Doctor then go for Payment.

POST CONDITIONS – A Receipt will be displayed. The hms database is updated



• CANCEL APPOINTMENT



• PATIENT MODULE

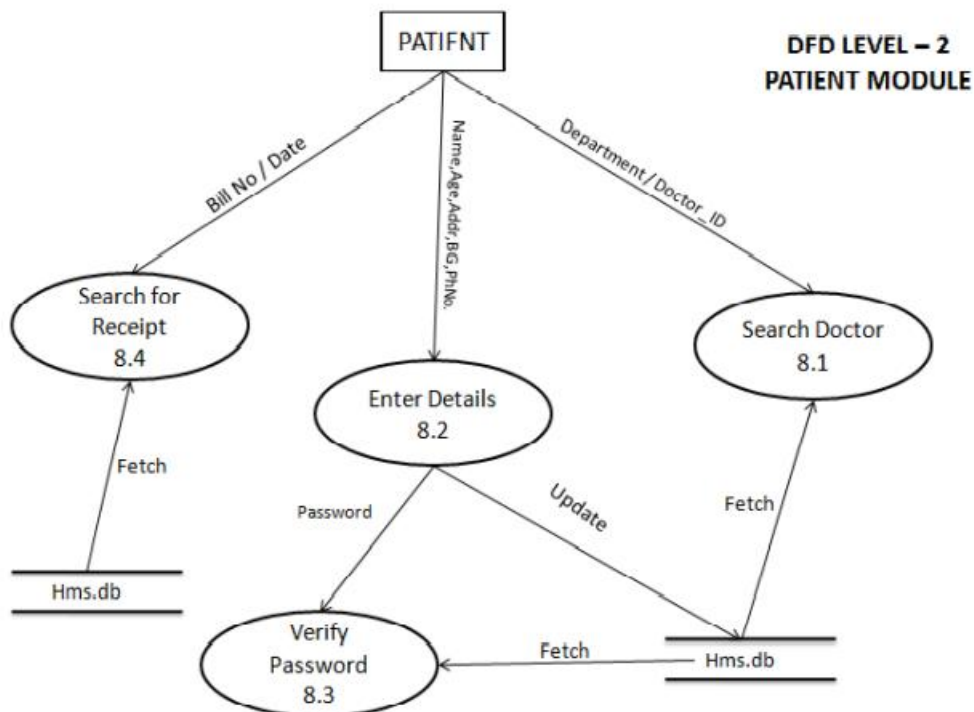
DESCRIPTION - The new patient can register themselves and add their details like name, age , gender, blood group etc. The patient entry will be made in the hms database.

PRE -CONDITION – The patient must be a new patient, If necessary fields left by user then prompt user to fill the necessary fields.

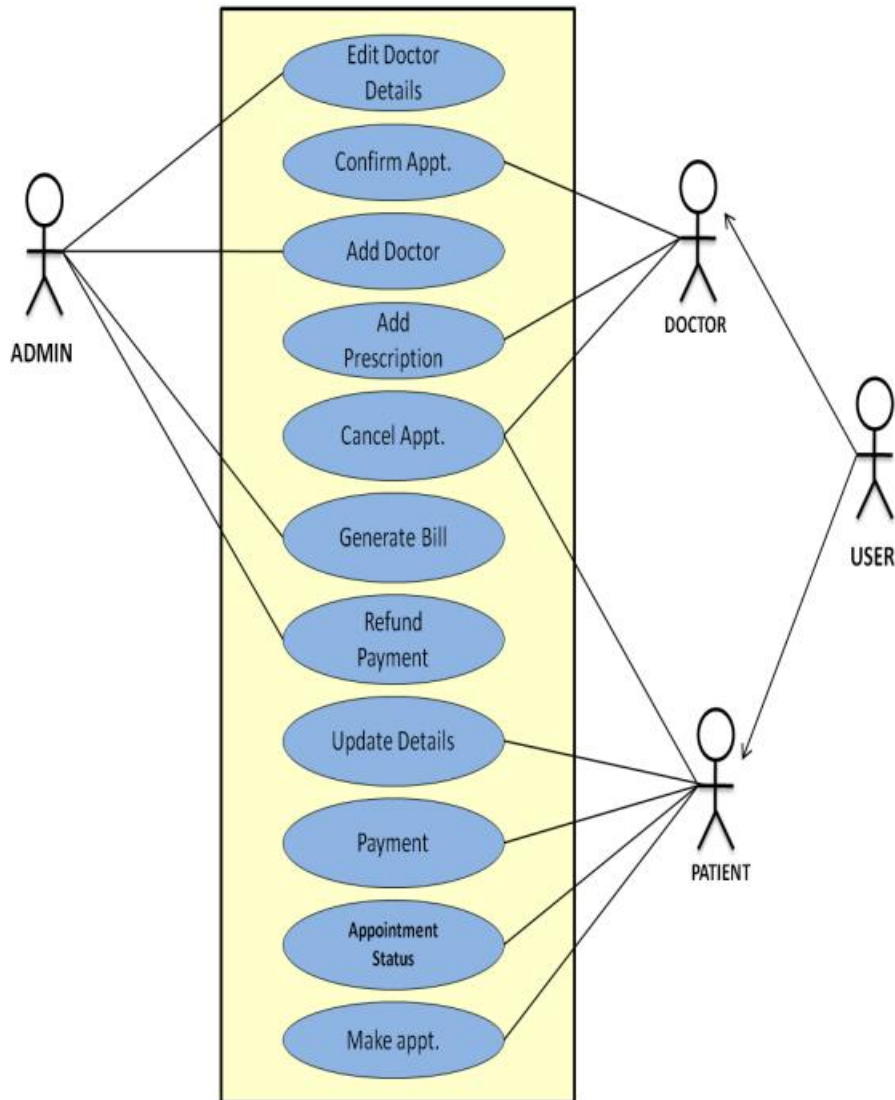
MAIN FLOW OF EVENTS

- 1.Patient selects sign up in login module.
2. A registration form get displayed
3. Patient fills the required details.
4. Patient should search their receipt
5. patient searches which type of doctor need.

POST CONDITIONS - Patient record is added to hms database.



USE CASE DIAGRAM:-



Constraints

- System is wirelessly networked with an encryption.
- System is only accessible within the hospital's website only.
- Database is password protected.
- Should use less RAM and processing power.
- Each user should have individual ID and password.
- Only administrator can access the whole system.

Assumptions and dependencies:-

- Each user must have a valid user id and password
- Server must be running for the system to function
- Users must log in to the system to access any record.
- Only the Administrator can delete records