

Aim : Create entity relationship Diagram and Data Flow diagram for the given software system using "Lucid Chart Tool".

Objective : Create ERD & DFD on hospital Management System using "Lucid Chart Tool".

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Theory : Healthcare management is a crucial function that comes as a backbone of hospital management. An ER (Entity Relation) Diagram thus functions as a foundation for the organization and visualization of the various entities, attributes and relations within a system.

ERD : Hospital Management System : To design an entity Relationship diagram (ER) Diagram for a Hospital Management system (HMS) with the entities provided.

The Requirement in ERD are as follows :

i) Patient Management : The platform should also allow for patients Registration & management for their information with details such as demographics, medical history and current condition in mind.

ii) Doctor's Management : The system should be functional & should have the functionality

iii) Billing : The system will be handling billing details of services rendered to patients & this will cover all functions such as bill generation, tracking payments & management of insurance details.

Entities and Attributes of Hospital Management System :

A thing in the real world with an independent existence. These are as follows :

1. Patient

- P. ID
- Name
- DOB
- Gender
- Mob. No.
- Age

2. Bill

- B. ID
- P. ID
- Amount

ARISE & SHINE

DFD: Hospital Management System : For a Data Flow Diagram of HMS, focusing on the patient's management, Doctor management & Billing processes :

Entities & processes of HMS's DFD :

1. Patient Management Process :

Inputs : * Patients Registration form .

* Medical history form .

Outputs : * Patient's Record

* Appointment information .

Processes : * Register patient

* Update patient information .

* Schedule Appointment .

2. Doctor Management Process :

Inputs : * Doctor's information .

* Availability Schedule .

Outputs : * Doctor Directory

* Availability status .

Processes : * Add / Update Doctor's Information .

* Set doctor Availability .

3. Billing Process : & SHINE

Inputs : * Service Record

* Insurance information .

Outputs : * Generated Bill

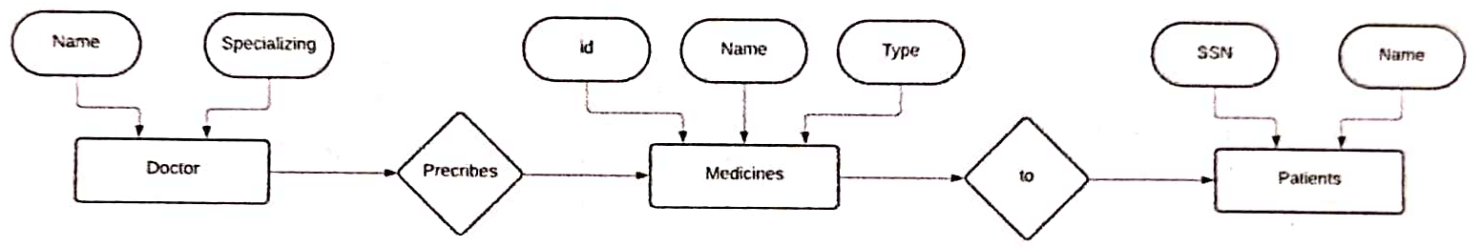
* Payment Receipt .

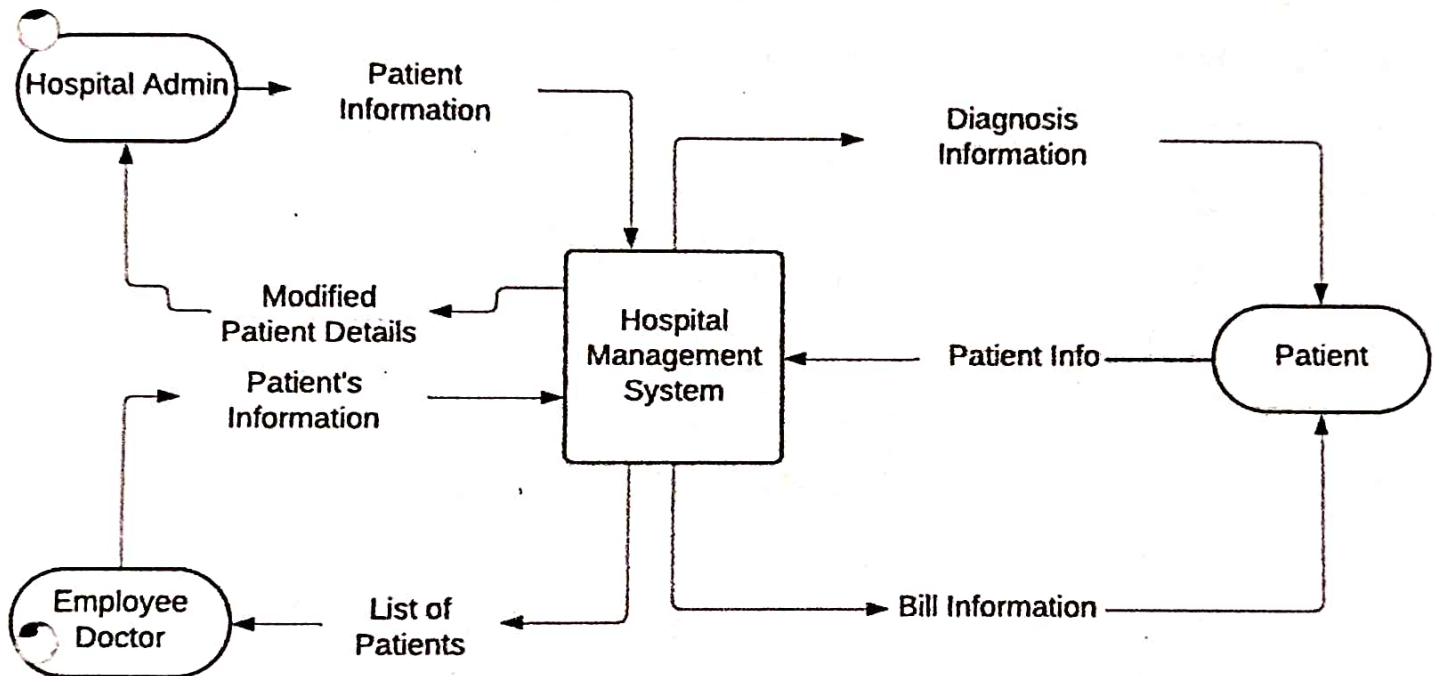
Processes : * Generate Bill

* Process payment

* Manage Insurance Claims .

Conclusion: The entity Relationship Diagram (ERD) & Data flow diagram (DFD) for the hospital management system (HMS) provide a comprehensive overview of system's structure and data flow. The ERD effectively outlines the core entities such as patients, Doctors & Bills & the relations between them, ensuring clear and efficient data organisation. Each entity is defined with key attributes, allowing for robust management of patient's demographics, medical history, doctor's details & Billing information.





These components represent the flow of data btw different parts of the system, ensuring the req. features are covered effectively.

Data means information, flow means to move & a diagram means a picture to represent something. So DFD is simply the graphical representation of flow of data or information.

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