**Data Flow Diagram for Hospital Management System**

**Introduction**

Data Flow Diagram Hospital Management System is used to create an overview of Hospital Management without going into too much detail. The overall Hospital Management System is represented and described using input, processing, and output in DFD. The DFD diagram for the Hospital Management System provides information about the inputs and outputs of each process and external entity of the hospital such as patient, staff, doctor, room, and medical treatment.

**DFD of Hospital Management System – Context Level (Level 0)**

The Zero Level DFD for the Hospital Management System depicts the overview of the whole hospital management system. It is supposed to be an abstract view of the overall system. This is also called a context diagram for a hospital management system in which the entire system is represented as a single process with its relationship with external entities such as Administrator, Staff, and Patient.

A diagram of a hospital management system

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In this Data Flow Diagram, you will see the general process done during the hospital management process.

**First Level Data Flow Diagram of Hospital Management System – (Level 1 DFD)**

The first level DFD of the hospital management system shows more details of processing. Level 1 DFD lists all the major subprocesses that make up the entire system such as the hospital master module that contains all records of patients, doctors, staff, rooms, treatment, etc., that will be used during different other processes like patient registration and patient discharge, and also the other modules in the hospital management system as the Financial, Inventory, Clinical, and Patient Modules.

A diagram of a hospital management system

Description automatically generatedIt also identifies the data store of hospital master data, patient data, financial, inventory, and clinical data reports and the important processes to be carried out.

The Level 1 DFD for hospital management system provides a broad overview but goes into greater depth than the context level diagram.

**Second Level Data Flow Diagram of Hospital Management System – (Level 2 DFD)**

The second level DFD of the hospital management system delves even deeper into the concept of level 1 DFD. The first level of DFD of the hospital management system represents how the system is divided into subsystems and the second level provides more details about patient registration, diagnosis, medical treatment, patient service record, and billing process.

The following are some functionalities of the hospital management system:

1-Administrator can add, edit, and delete hospital master records such as service details, ward details, room details, and medicine information details.

2-Administrator can add, edit, and delete staff and doctor records.

3-Administrator can add, edit, and delete various treatment details.

4-Administrator can add, edit, and delete patient details.

5-Room allocation can be edited and changed.

6-Preparing of the reports for every module in each process.

7-Checking inventory for the checking of medicine availability.

8-preparing discharge bills.

A diagram of a hospital management system

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The Level 2 DFD is continued below on the next page digging deeper into more details.

A screenshot of a computer

Description automatically generatedMore information and details in the **Hospital Master Module**:

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Description automatically generatedMore information in the other modules:

After viewing this level now, you will be able to know where data input goes and from where data output comes. This level 2 Data Flow Diagram shows you a detailed process of hospital management and also gives you a clear view of the data that flows into the system.

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