

Ahsanullah University of Science and Technology  
*Department of Computer Science & Engineering*

DATABASE LAB  
CSE - 3104

Introductory Project Report

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Pharmacy Management System

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Submitted by

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# *Contents*

1	<b>Introduction</b>	1
2	<b>Objective</b>	1
3	<b>Entity And Relationships</b>	1
3.1	Entity and its attributes	1
3.1.1	Entity-01: Medicine	2
3.1.2	Entity-02: Company	2
3.1.3	Entity-04: SystemUser	2
3.1.4	Entity-06: Purchase	2
3.1.5	Entity-07: Selling Details	2
3.2.1	Relationship-01: belongs	3
3.2.2	Relationship-02: has	3
3.2.3	Relationship-03: controls	3
3.2.4	Relationship-04: records	3
4	<b>Conclusion</b>	3
5	<b>Entity-Relationship Diagram</b>	4

# 1 Introduction

Nowadays, Pharmacy management system is one of the most essential tools that are mostly used in medical store in Bangladesh, it is mostly used to manage pharmacy related activities such as medical inventory, record keeping, sales management as well as managing the drug stock and information of the expired medicines. But many pharmacies in Bangladesh are still operating manually, they don't have adequate software to manage their daily activities. It needs the pharmacist assistant to check the expired date of the medicine twice a week, and it can take a lot of time to find out whether certain medicine are out of stock. In this project we tried to develop a computerised and web based Pharmacy management system. Our main intention is to allow this application to be used in most retailing pharmacies in Bangladesh, where a small point of customization will be required to each pharmacy in the implementation period. This system is designed to overcome all challenges related to the management of medicine that were used to be handled locally and manually. Pharmacy management system has its own significance to the retail pharmacy shops. Using this system, it will help us to records all transaction made at the daily sales, recognize all debtors, customers, employees, balance stock, etc. It will manage all activities around the shop that increases productivity and maximize profit, it will also minimizing the risk of getting loss because all transactions are recorded to the system.

## 2 Objective

Our objective of this pharmacy management system is to improve the accuracy, enhance safety and efficiency in the pharmaceutical store. It is a computer based system which helps the pharmacist to improve inventory management, cost, medical safety etc. Pharmacy management was developed to ensure the security of information and reliability of Pharmacy record when accessing and providing services to the customers. This Project is insight into the design and implementation of a Pharmacy management system. The primary aim of is to improve accuracy and enhance safety and efficiency in the pharmaceutical store. Today management is one of the most essential features of all form. Management provides sophistication to perform any kind of task in a particular form. This pharmacy manage, it is used to manage most pharmacy related activities in pharmacy.

## 3 Entity And Relationships

### 3.1 Entity and its attributes

The following are the entities with their attributes that we will try to implement.

### 3.1.1 Entity-01: Medicine

- I. M.Id - Primary Key
- II. Name
- III. Type
- IV. Weight
- V. Generic
- VI. C.Id -Foreign key

### 3.1.2 Entity-02: Company

- I. C.Id - Primary Key
- II. Name
- III. ContactNumber
- IV. Address

### 3.1.3 Entity-04: SystemUser

- I. U.Id - Primary Key
- II. UserName
- III. UserPassword
- IV. UserRole
- V. Address
- VI. Phone

### 3.1.4 Entity-06: Purchase

- I. P.Id - Primary Key
- II. Qunatity
- III. SellingPrice
- IV. CostPrice
- V. ExpirayDate
- VI. M.Id - Foreign Key
- VII. C.Id - Foreign Key

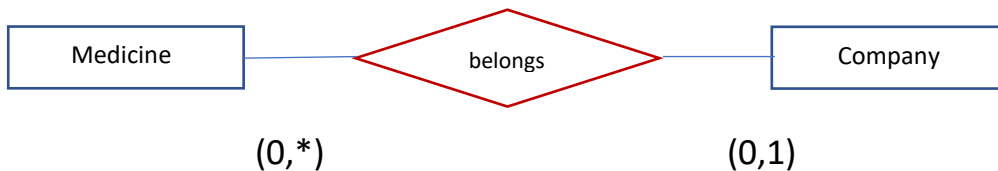
### 3.1.5 Entity-07: Selling Details

- I. S.Id - Primary Key
- II. U.Id - Foreign Key
- III. SellingDate
- IV. TotalPrice
- V. MedicineDetails

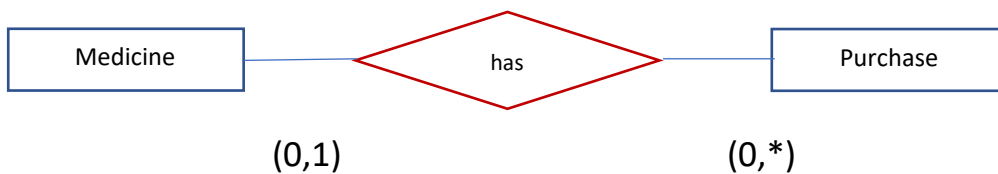
## 3.2 Relationship

The following relations will be shown in our entity-relation diagram.

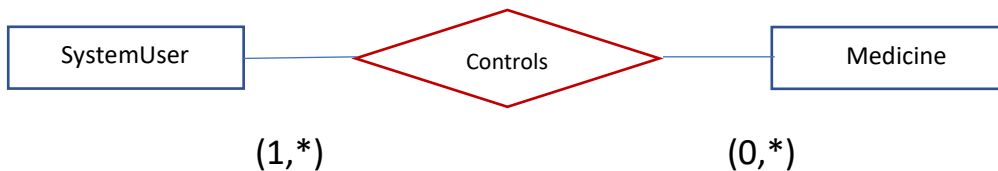
### 3.2.1 Relationship-01: belongs



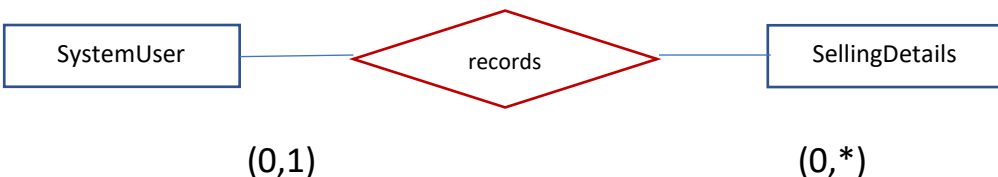
### 3.2.2 Relationship-02: has



### 3.2.3 Relationship-03: controls



### 3.2.4 Relationship-04: records



## 4 Conclusion

Effective implementation of this database management system will take care of the basic requirements of the pharmacy management system because it will be capable of providing easy and effective storage of information related to activities happening in the stipulated area. With these, the objectives of the system design will be achieved. The system will be designed in such a way that will allow possible modification as it may deem necessary by the pharmacy management, whenever the idea arises.

## 5 Entity-Relationship Diagram

