

# Enggg. Tech

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### Drug Store Manager & Overview

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#### Abstract

The title of the project is “Drug Store Manager”. This project will manage over the entire medicine supplier. It will provides facilities to keep the records of Supplier, dealers, Bill, Bill Details, Incoming stocks, Stock and Licence details with their licence allotment and renewal status. It will also handles over all accounting and each and every transaction details. It will have facilities to generate various types of reports (such as Dealer, Supplier, Bill record, Incoming Stock, Licence and Stocks), which are required by the management during normal business operations to operate the business effectively. This project as title “Drug Store Manager” is comes under the Relational Database Management System (RDBMS). This application is developed with the help of VB.NET, Devexpress tools and sql Server.

In this project we will going to use dot net as our technology and for database creation and for all other relevant database activities we will use SQL management studios. Our software will be prepared in VB.NET using Microsoft Visual Studios 2010 and sql management studio 2008.

This is of generic type software, suitable to all Drug Stores, This software have all the module to manage Drug Store Management functions.

**Keywords:** Drug store, Manager, Facilities

#### Introduction

The main problem is to handle such a huge data and maintain it without any loss in a proper and efficient manner. This has became the major issue because it is not possible to maintain such huge data on paper and even if it is also not possible to maintain it in text files because it takes a lot time to manage and to find out a specific record and to update that record. And there is also a possibility that the file may be deleted or corrupt.

The solution of all such problem will be found at our software which will provide the quiet easy management to data like it will insert, update and show the data on a single form. In short it provide easy and faster insertion, deletion and retrieval of data.

Our aim besides to prepare this project is to provide a way to user for proper and easy management and retrieval , manipulation of data.

Along with proper management of data our object security of data providing access, only to the authorize user. We also provide password reset for admin account, to maintain over all data of an organization and also maintain details of market clients and supplier. And all such detail are in control of administrator. We will also try to reduce the time consumption in various operation to be performed. To provide a centralized database system and to reduce the error scope . There is no need to perform any type of paper work unless if you need the hard copy of reports and required searched data.

#### Need & Scope

This project has a large scope as it has the following features which help in marketing it easy to use, understand and modify it:

- No need to do paper work.
- To save the environment by using paper free work.
- To increase the accuracy and efficiency of the record.
- Management of medicine data.

The software package can be readily used by non – programming personal avoiding human handled chance of error.

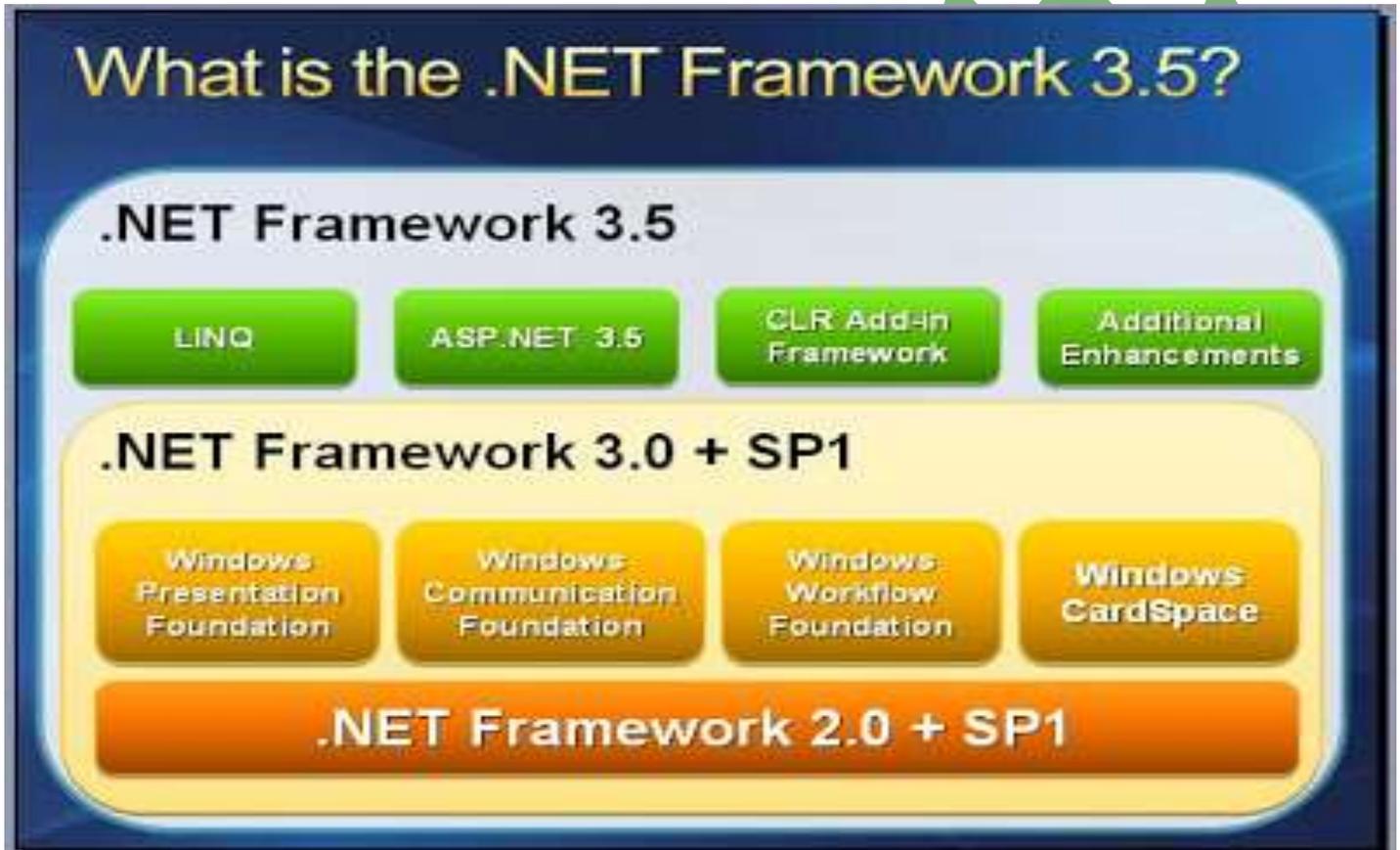
**Platform Specification:**

**1. Hardware Specification:**

Processor : Pentium – II or higher  
 Hard Disk Space : 20 GB (min.)  
 Ram Memory : 50 MB (64 MB recommended)

**2. Software Specification:**

Operating System : Window 7/8 (Window Series)  
 Database Server : Sql Server 2008  
 Front end : Visual C# (Visual Studio 2010) and Devexpress



**Dot Net Frame Work Architecture  
 System Analysis**

**Identification of the Need:**

When you asked to computerize a system, as a requirement of the data processing or the information need, it is necessary to analyze the system from different angles. While satisfying such need, the analysis of the system is the basic necessity for an efficient system design. The need for analysis steam from the following point of view .

It is necessary to define the system objective. Many a times, it is observed that the systems are historically in operation and have lost their main purpose of achievement of the objectives. The user of the system and the personal involved are not in a position to define the objective . Since you are going to develop a computer based system, it is necessary to redefine or reset the objective as a reference point in the context of the current business requirement.

It is necessary to established the system boundaries which would define the scope and the coverage of the system. This helps to sort out and understand the functional boundaries of the system, the department boundaries in the

system, and the people involved in the system. It also helps to identify the inputs and the outputs of the various sub – systems covering the entire system.

It is necessary to understand the importance of the system in the organization. This would throw more light on its utility and would help the designer to decide the design features of the system. It would be possible then to position the system in relation to the other systems for deciding the design strategy and development.

The analysis of the system will help the system designer to conclude whether the system is the closed type or open, and a deterministic or probabilistic. Such an understanding of the system is necessary, prior to design the process to ensure necessary design architecture.

The system, many a times, act as an interface to the other systems. Hence through such an interface, it activates or promotes some changes in the other systems. It is necessary to understand the existing role of the system, as an interface, to safeguard the interests of the other systems. Any modifications or changes made should not affect the functioning or the objective of the other systems.

The strategies purpose of the analysis of the system is to seek the acceptance of the people to a new development. System analysis process provides a sense of participation to the people. This helps in breaking the resistance to the new development and it also ensure the commitment to the new system.

The analysis of the system helps in defining the resource requirement in terms of hardware and software . Hence, if any additional resource are required, this would mean an investment form the point of view of return on such investment. If the return on the investment is not attractive , te management may drop the project.

The analysis of the system helps to establish the feasibility from different angles. The system should satisfy the technical, economic and operational feasibility. Many times, the systems are feasible from the technical and economic point of view: but they may be infeasible from the operational point of view. The assessment of feasibility will save the investment and the system designer's time. It would also save the embarrassment to the system designer as he is viewed as the key figure in such projects.

#### **Preliminary Investigation**

Preliminary Investigation basically refers to the collection of information that guides the management of an organization to evaluate the merits and demerits of the project request and make an informed judgement about the feasibility of the proposed system . This sort of investigation provides us with a through picture of the kind of software and hardware requirements which are most feasible for the system, plus the environment in which the entire project has to be installed and made operational.

#### **Reviewing the Documents provided by the organization**

They were quite effective in guiding us towards visualizing the features that were needed to be put together in the system and the required output which had to be generated once the system became functional. These specifications provided to us by the organization showed how the new system should look like; it helped us in understanding the basic structure of the application which we were supposed to develop.

#### **On site Observation**

Another technique utilized by us to gain information about the project was to visit the client site where the system had to be installed. Here a detailed system study was carried out, checking the existing system to replicate it with our system. We also observed the activities of the system directly. During the on – site observation , we saw the office environment , work load of the system and users , method of work, and the facilities provided by the organization. This information helped us to understand how the system should operate. But after interviewing the persons, who is affected by the system, we got more details that further explain the project and shown whether assistance is merited economically, operationally and technically.

#### **Conducting Interviews**

This method of investigation conducted by us involved questioning the concerned personal to get the user's (client) view about the system and the features they desired it to have. Some of the Question put forward by7 our team were:  
The amount of data needed to be stored.

The number of customers using the system and number of which the application needed to be installed.

The issue of our application with existing system was widely discussed.

#### **Feasibility Study**

In this phase we develop the functional design specification. Develop the data model specification, develop the user interface. Update the requirement document. Update the system specification document. Develop a unit test plan, update the system test plan, update the acceptance test plan and finally update the project plan.

The objective of feasibility study is to examine the technical, operational and economical viability.

Technical Feasibility

**Hardware Requirement**

Minimum 50 MB RAM (64 MB Recommended)

20 GB Hard drive (4 GB for installing .NET and 2 GB for SQL Server)

**Software requirement**

Microsoft Visual Studio 2010 (.NET)

Microsoft framework 3.5

SQL Server 2008

Economical Feasibility

Operational Feasibility

**Technical Part**

**Project Standard**

Various organization follows various set of rules and standard during software development of any project. This standard is the actual parameter for definition the quality of product being receivable from that organization. These standards are usually defined in the form of **CMMI level**.

In CMMI models with a staged representation, there are five maturity designed by the number 1 through 5.

Initial

Managed

Defined

Quantitatively Managed

Optimizing

**Interface**

User of the system will be provided with the Graphical user interface, there is no command line interface for any functions of the product. The admin will get all Pages:

Login Page

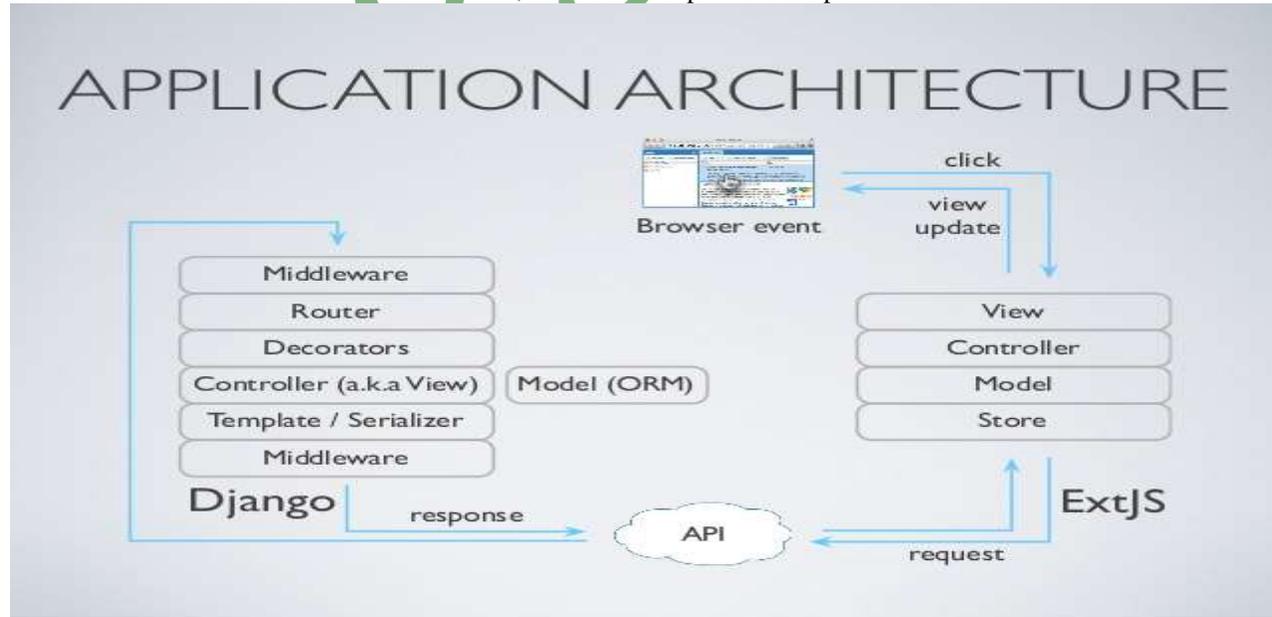
Dash Board

Password Reset

There are six report viewer

**Communication Architecture**

If on particular machine, operation are performed then local host is used as a server if it is not connected to internet. But when connected to internet overall retrieval, insertion and updations are performed via server.



### Application Architecture Security

There need to be certain constraints which have to be implemented on the database as well as on the administrator in order to work properly the whole system, such as declaring the primary key, or such constraints in order to keep the database work properly. Some of such securities are as follows:

Only the administrator has the right to insert update and retrieve data.

The administrator has his own password known to no one else to access.

When administrators click on logout the session of user ends, and has to again login using his/her username and password to access the same functionality.

As it is a desktop application there is no user only administrator.

There is no option of format or to delete.

### Conclusion

It has been a great pleasure for me to work on this exciting and challenging project. This project proved good for me as it provided practical knowledge of not only programming in VB.NET , Devexpress tools and SQL Server, but also about all handling procedure related with “**Drug Store Manager**”. It also provide knowledge about the latest technology used in developing desktop based application and based on client requirement. This will provide better opportunities and guidance in future in deve3loping projects independently.

In future as per the requirement of the user features can be added in the application. There are several things that we can implement like sales and purchase return, account management etc.)

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