PHARMACY MANAGEMENT SYSTEM

Technical Design Document

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1.0 Introduction

1.1 Purpose of this document

The purpose of this document is to document the technical design, component details and Database design. This will also capture the scope, assumptions, risk, dependencies of this project. This document provides an overview about the business need and the solution that can be provided to fulfil the objective.

1.2 Project overview

The purpose of this Pharmacy Management System project is to improve the maintenance and manipulation of the drugs in the medicals. The pharmacy management system will be used to minimize the time and resource by maintaining the details of the drug systemically so that the data can be used in possible quickest time. While the resource which is minimized are workforce, money, papers, etc. The system is user-friendly and will help the pharmacist. This Pharmacy Management System will reduce the burden on pharmacist and will make the system efficient by providing the more accurate details about drugs in the medical.

2.0 Solution Summary

2.1 Scope

- This Project “Pharmacy Management System” is a solution to Pharmacy Organizations to take the orders from its distributors who are geographically distributed.
- This system is a complete web-based application for managing a pharmacy organization’s entire operation.
- No need to own any computer for this specific ordering of products, it just requires user to register with the system.
- It provides easy to use and user-friendly interface for the user. The user, vendor can access the system at any time, because it’s 24-hour availability.

2.2 Assumptions

•The purpose of this Pharmacy Management System project is to improve the maintenance and manipulation of the drugs in the medicals. The pharmacy management system will be used to minimize the time and resource by maintaining the details of the drug systemically

• End user having enough knowledge for the project operation.

- Users must have basic knowledge of computer system and English language.

2.3 Dependencies

- Admin can't disapprove the user if it allowed it once or vice versa.
- Vendors can't retrieve order id of admin which is already been approved or rejected.
- Users can't auto register themselves

2.4 Risks

No risk encountered

3.0 Schematic Diagram

A schematic, or schematic diagram, is a representation of the elements of a system using abstract, graphic symbols rather than realistic pictures. It gives an overview of overall system

4.0 System Design

4.1 Proposed design

After planning and requirement specification the following functionalities and scheme is proposed:

a. No users can auto register themselves

b. Only registered user can add login into application

c. User can view and purchase products.

d. User can update their profile and check the products to order for themselves.

e. An Admin has some extra privilege like it can register new users, can check orders of vendor and user

f. Admin can add products, edit product information and add/remove product.

g. Admin can add user, view transactions of user, vendor, approve vendor etc.

h. Vendor can approve admin order, update own profile, check own products, and can add new product`s.

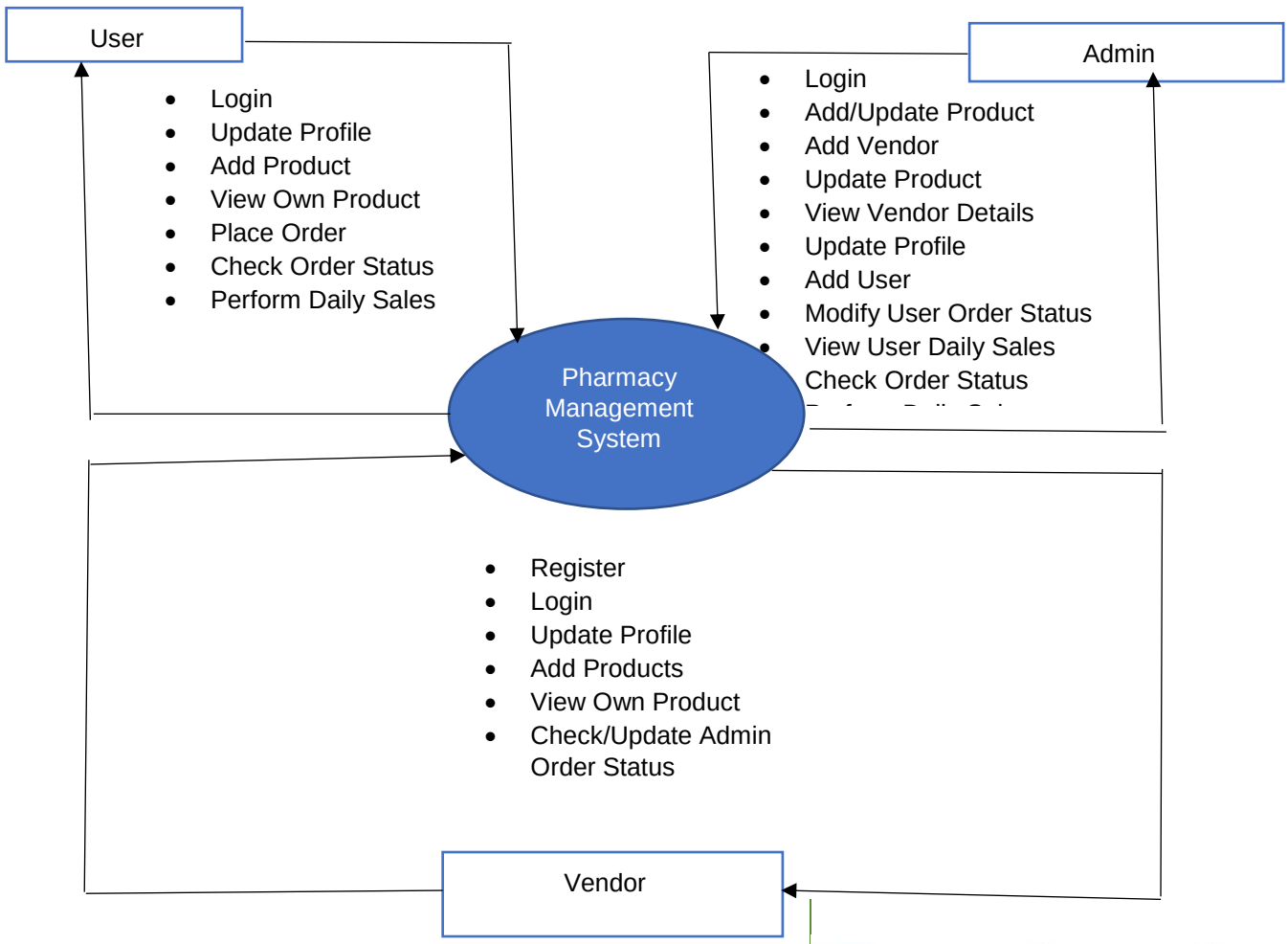
4.2 Component inventory

- **Backend:** Java, Servlet, JDBC
- **Frontend:** HTML, CSS, JSP
- **Application Architecture:**

1. UI- JSP, CSS
2. Service Layer- Jsp Servlet
3. Back-end - Java
4. Database - MySQL
5. Development Tool – NetBeans

5.0 Database Design

5.1 Data Model



5.2 Tables Structure

Table: ***ADMIN***

ADMIN

Column Name	Data Type	Nullable	Primary Key
ADMIN_ID	VARCHAR2(5)	No	1
ADMIN_PWD	VARCHAR2(20)	Yes	-

ADMIN_CURR_TRAN_DET

Column Name	Data Type	Nullable	Primary Key
ADMIN_ID	VARCHAR2(5)	Yes	-
AORD_ID	VARCHAR2(30)	Yes	-
MONEY	NUMBER(10,2)	Yes	-

ADMIN_ORDER

Column Name	Data Type	Nullable	Primary Key
AORD_ID	VARCHAR2(30)	No	1
ADMIN_ID	VARCHAR2(5)	Yes	-
AORD_DT	DATE	Yes	-
ABILL_AMT	NUMBER(10,2)	Yes	-
AORD_STAT	VARCHAR2(10)	Yes	-

ADMIN_ORDER_PROD			
Column Name	**Data Type**	**Nullable**	**Primary Key**
AORD_ID	VARCHAR2(30)	Yes	-
VND_ID	VARCHAR2(5)	Yes	-
VPROD_ID	VARCHAR2(5)	Yes	-
AORD_AMT	NUMBER(10,0)	Yes	-

Table: ***Vendor***

CURRENT_VENDOR			
Column Name	**Data Type**	**Nullable**	**Primary Key**
VND_ID	VARCHAR2(5)	No	1
VND_PWD	VARCHAR2(20)	Yes	-
VND_NM	VARCHAR2(30)	Yes	-
VND_ADD	VARCHAR2(40)	Yes	-
VND_PHN	NUMBER(15,0)	Yes	-
VND_MAIL	VARCHAR2(20)	Yes	-

VENDOR_MASTER			
Column Name	**Data Type**	**Nullable**	**Primary Key**
VND_ID	VARCHAR2(5)	No	1
VND_PWD	VARCHAR2(20)	Yes	-
VND_NM	VARCHAR2(30)	Yes	-
VND_ADD	VARCHAR2(40)	Yes	-
VND_PHN	NUMBER(15,0)	Yes	-
VND_MAIL	VARCHAR2(20)	Yes	-
VND_DESC	VARCHAR2(1000)	Yes	-
VND_STAT	NUMBER	Yes	-

VENDOR_PRODUCT			
Column Name	**Data Type**	**Nullable**	**Primary Key**
VND_ID	VARCHAR2(5)	No	1
VPROD_ID	VARCHAR2(5)	No	2
VPROD_NM	VARCHAR2(30)	Yes	-
VPROD_CTGRY	VARCHAR2(30)	Yes	-
VPROD_DESC	VARCHAR2(500)	Yes	-
VPROD_PRICE	NUMBER(5,2)	Yes	-
VPROD_AMT	NUMBER(10,0)	Yes	-

Table: ***Users***

USERS			
Column Name	**Data Type**	**Nullable**	**Primary Key**
USR_ID	VARCHAR2(5)	No	1
USR_PWD	VARCHAR2(20)	Yes	-
USR_NM	VARCHAR2(30)	Yes	-
USR_ADD	VARCHAR2(40)	Yes	-
USR_PHN	NUMBER(15,0)	Yes	-
USR_MAIL	VARCHAR2(20)	Yes	-

USER_ORDER

Column Name	Data Type	Nullable	Primary Key
UORD_ID	VARCHAR2(30)	No	1
USR_ID	VARCHAR2(5)	Yes	-
UORD_DT	DATE	Yes	-
UBILL_AMT	NUMBER(10,2)	Yes	-
UORD_STAT	VARCHAR2(10)	Yes	-

USER_PRODUCT

Column Name	Data Type	Nullable	Primary Key
USR_ID	VARCHAR2(5)	No	1
UPROD_ID	NUMBER	No	2
UPROD_NM	VARCHAR2(30)	Yes	-
UPROD_CTGRY	VARCHAR2(30)	Yes	-
UPROD_DESC	VARCHAR2(500)	Yes	-
UPROD_PRICE	NUMBER(5,2)	Yes	-
UPROD_AMT	NUMBER	Yes	-

USER_ORDER_PROD

Column Name	Data Type	Nullable	Primary Key
UORD_ID	VARCHAR2(30)	Yes	-
UPROD_ID	NUMBER	Yes	-
UORD_AMT	NUMBER(10,0)	Yes	-

USER_TRAN_DET

Column Name	Data Type	Nullable	Primary Key
USR_ID	VARCHAR2(5)	Yes	-
CRD_NO	VARCHAR2(10)	Yes	-
UORD_ID	VARCHAR2(30)	Yes	-
MONEY	NUMBER(10,2)	Yes	-

6.0 Appendices

6.1 Glossary

Acronyms	Definitions

6.2 Other

7.0 Terms & Conditions

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8.0 Change Log

Please note that this table needs to be maintained even if a Configuration Management tool is used.

Version Number	Changes made			
V<n.n>	*<If the change details are not explicitly documented in the table below, reference should be provided here>*			
	Page no	Changed by	Effective date	Changes effected