MAJOR PROJECT ON

"ONLINE PHARMACEUTICAL MANAGEMENT SYSTEM"

Department Of Mathematics & Computer Applications

MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY BHOPAL(M.P)

Session-2016-2019

Submitted to   **Submitted by**
Dr. Sujoy Das   Namrata Singh (162120008)
                                                             Snehal Prajapati (162120030)

<u>Certificate</u>

2016-2019

DEPARTMENT OF MATHEMATICS AND COMPUTER APPLICATIONS

MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL
(M.P.) – 462003

This is to certify that **Namrata Singh(162120008)** have carried out the project work in this report entitled **"Online Pharmaceutical Management System "** for the award of Master of Computer Application in Maulana Azad National Institute of Technology Bhopal (M.P) - 462003.

Signature of Project Guide   **Signature of Head of Department**

Contents

1. Introduction

2. Abstract

3. System Requirements

4. Functional Requirements (Application Overview, Modular Activities)

5. Code Screenshot

Introduction

This Project "Pharmacy System" is a solution to Pharmacy Organizations to take the orders from its distributors who are geographically distributed. This new system not only takes the orders from distributors for Pharmacy shops but also gives order to some vendor. So 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 system provides freedom to the user to move freely around various screens and status of the system returned, as it was when he left the screen. The user can view the products from the product table and the administrator can view the products the vendors are supplying and can order those on the basis of their requirements.

Abstract

This Project provides a solution to Pharmacy Organizations to take orders from its distributors who are geographically distributed. This new system not only takes the orders from distributors for but it also facilities the administration, by giving the privilege to receive application from different vendors, to approve some of them, to pick the vendor with required medicines and place orders. The user, vendor can access the system at any time, because it's 24-hour availability. The organization people can do administration over the products, vendor, customer etc.

This project is a web-based project, and no doubt to say this is a Client- Server System. Each user of this system is given a unique id and password along with some Information for our report generation, and administration. Later the user id will be used for his identification. The system maintains vendors, category of products they are supplying, products under each category, discount, and payment modes such as DD, Cheque, and online payment mode Credit Card. This system also maintains the order details, to provide the valuable reports regarding sales to the organization whenever they want.

SYSTEM REQUIREMENTS

➢**System Interface**

The software is to be developed in J2EE environment using JSP and JDBC.

➢**User Interface**

The client interacts with the system through a HTML/ JSP pages.

➢**Communication Interface**

The communication between the front-end and the back-end is through JDBC.

➢**Software Requirement Specification For Server System**

Windows 7 or above

JDK 1.6.0 or above Oracle 10g

Tomcat 7 or above

Eclipse Oxygen

Application Overview

➢The project contains three modules-
- User interaction module
- Administration module
- Vendor Module

USER

1. Register
2. Login
3. Update Profile
4. Add Product
5. View Own Product
6. Search Admin Product
7. View Admin Product Information
8. Place Order
9. View Order Details / Check Status
10. Perform Daily Sales

ADMIN

1. Login
2. Add Product
3. Add Category
4. View Own Product
5. Update Product
6. Add Vendor
7. View Vendor Details
8. Search Vendor Product
9. View Vendor Product
10. Place Order To Vendor
11. Check Order Status
12. Approve User
13. Modify User Order Status
14. View User Daily Sale

PHARMACY SYSTEM

1. Register
2. Login
3. Update Profile
4. Add Product
5. View Own Products
6. Check / Update Administrator Order Status

VENDOR

Modular Activities in Brief

➢ **User Interaction**

- Login
- Update Profile
- View Admin Product Information
- Search Admin Product Information
- Place Order
- View All Orders
- View Order Details/ Check Status
- Add Product
- View Own Product
- Perform Daily Sales

Modular Activities in Brief

➢ **Administration**

- Login
- Approve/Reject Vendor
- View Vendor Products
- Search Vendor Products
- Place Order To Vendor
- View All Orders
- Check Order Status
- Add User
- Add Product
- View Own Product
- Update Product
- Modify User Order Status
- View Users' Daily Sales

Modular Activities in Brief

➢**Vendor**

- Register
- Login
- Update Profile
- Add Product
- Update Product Information
- View Own Product
- Check/ Update Administrator Order Status

User Interaction

➢**Login**: Application allows user to log in to the system by his id and password that is sent by the Admin via e-mail. The login function takes id and password from the user and checks it with the data of the database table USERS, if a valid password exists corresponding to a valid id, user logs in to his account.

➢**Update**: Application allows user to update his information. In the update page it shows the currently present values corresponding to the attributes. If the user changes anything that is reflected to the USERS table, otherwise previously inserted information is maintained.

➢**View Product Information**: Application allows user to view the products of the admin by category or product name. The function retrieves the information from ADMIN_PRODUCT_SALE table. By clicking on "view details" link, user can view all the details of the product including product name, id, category, description, price and available quantity of that product.

➢**Search Product Information:** Application allows user to search the products of the admin. The function takes whole or part of the product name, searches for that in ADMIN_PRODUCT_SALE and returns its details if any match is found.
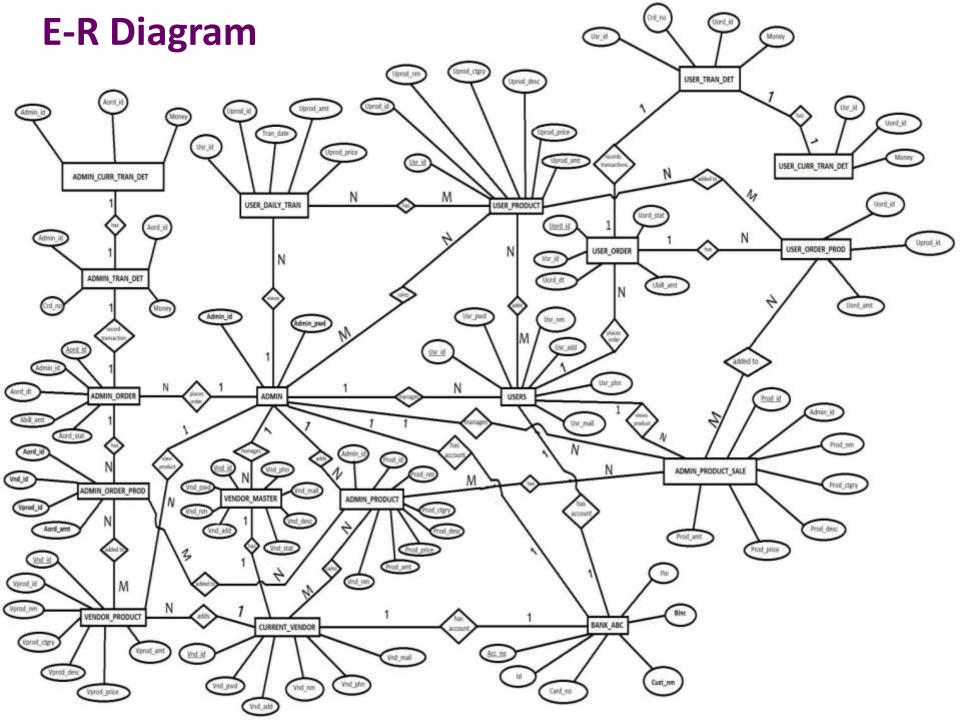
➢**View All Orders**:Application allows user to view his all order details which shows the order id, order date and total amount for all orders. The function searches in the USER_ORDER table and returns the mentioned details.

➤**View Order Details/ Check Order Status:** Application allows user to view his order details and check the current status of the order. The function takes the order id as input and searches the USER_ORDER table for valid entry, if a valid entry exists then it searches the USER_ORDER_PROD table for the name and quantity of the ordered products and the details of the order including the status "approved/pending/canceled" is shown

➤**Place Order**: Application allows user to place order according to his requirements. A cart facility is provided. User inputs the quantity, if that is less than the available stock, then it is added to the cart and the user can continue shopping. After the user finishes his selections, he must confirm that he is ready to place the order. The system provides the facility to change selected quantity of a product or remove a product from the cart before he places the order. It shows the name and quantity of ordered products and total bill amount.

➤**Add Product:** The application allows the user to add product to his USER_PRODUCT table. The order corresponding to the order id must be approved by the admin.The function takes the order id of the user. After receiving the order, user inputs the order id and the products corresponding to the order are inserted in the USER_PRODUCT table. The function checks whether it is a new product, a new entry is created for the new product and the quantity is increased in case of an existing product.

➤**View Own Product:** The application allows the user to view his own products. The function retrieves the product information like product id, product name, category, price, available quantity etc from USER_PRODUCT table.

➤**Perform Daily Sales:**Application allows user to store his daily transaction in the database.The function takes user id,date and product details as input and saves the information in USERDAILY_TRAN .

Administrator

➢**Login:** Application allows admin to log in to the system by his id and password. The login function takes id and password from the admin and checks it with the data of the database table ADMIN, if a valid password exists corresponding to a valid id, admin logs in to his account.

➢**Add Vendor:** Application allows the administrator to approve a vendor by viewing the application submitted by a vendor. The admin views all the information of the vendor from VENDOR_MASTER table. Ifa vendor is approved his details get stored in CURRENT_VENDOR table.

➢**View Vendor Products:**Application allows admin to view the products of the vendors by category or product name. The function takes the vendor id as a parameter and retrieves the information from VENDOR_PRODUCT table. By clicking on "view details" link, admin can view all the details of the product including product name, id, category, description, price and available quantity of that product.

➢**Search Product Information:** Application allows admin to search the products of the vendor. The function takes whole or part of the product name, searches for that in VENDOR_PRODUCT and returns its details if any match is found.

Administrator

➢**Place Order to Vendor:** Application allows the admin to place order(s) to vendor(s). A cart facility is provided. Admin inputs the quantity, if that is less than the available stock, then it is added to the cart and the admin can continue shopping. After he finishes his selections, he must confirm that he is ready to place the order. The system provides the facility to change selected quantity of a product or remove a product from the cart before he places the order. It shows the name and quantity of ordered products and total bill amount.

➢**View Order Details/ Check Order Status:** Application allows admin to view his order details and check the current status of the order. The function takes the order id as input and searches the ADMIN_ORDER table for valid entry, if a valid entry exists then it searches the ADMIN_ORDER_PROD table for the name and quantity of the ordered products and the details of the order including the status "approved/pending/canceled" is shown.

➢**Add Product:** Application allows the administrator to add new products to the ADMIN_PRODUCT table. After the arrival of the order from the vendor the admin can add products. Application allows the administrator to update product. Admin can change the product description, product price, available quantity etc. After this phase the products are added to the ADMIN_PRODUCT_SALE for users' view.

Administrator

➢**View All Orders**: Application allows admin to view his all order details which shows the vendor id, order id, order date and total amount for all orders. The function searches in the ADMIN_ORDER table and returns the mentioned details.

➢**View Own Product:** The application allows the admin to view his own products. The function retrieves the product information like product id, product name, category, price, available quantity etc from ADMIN_PRODUCT table.

➢**Update Product:** The application allows admin to update his product information. After update, the changes are reflected to the ADMIN_PRODUCT table and the ADMIN_PRODUCT_SALE table.

➢**Add User:** Application allows the administrator to add a user. The admin inputs the users id and initial password and these are stored in the USERS table.

➢**Views Users' Daily Sales:** The application allows the admin to view all the transaction of a user. The function takes date as input and retrieves the details of transaction from USER_DAILY_TRAN table.

Vendor

➢**Register:** Application allows the vendor to register to the system by submitting its details. The details are stored in the VENDOR_MASTER table. All the vendors' details are stored in this table whether his application gets approved or not.

➢**Login:** Application allows the vendor to login to the system if he is an approved vendor. The login function takes id and password from the vendor and checks it with the data of the database table CURRENT_VENDOR, if a valid password exists corresponding to a valid id, vendor logs in to his account.

➢**Update Profile:** Application allows the vendor to update his information. In the update page it shows the currently present values corresponding to the attributes. If the vendor changes anything that is reflected to the VENDOR_MASTER & CURRENT_VENDOR table, otherwise previously inserted information is maintained.

➢**Add Product:** The application allows vendor to add product. He inserts all the details of the product and the details are stored in the VENDOR_PRODUCT table.

➢**View Own Product:** The application allows the vendor to view his own products. The function takes the vendor id as parameter and retrieves the product information like product id, product name, category, price, available quantity etc from VENDOR_PRODUCT table.

➢**Update Product:** The application allows vendor to update his product information. After update, the changes are reflected to the VENDOR_PRODUCT table.

Check/ Update Status: Application allows the vendor to check or update the status of the administrator's order according to the current status of dispatch. The status of the order is changed in the ADMIN_ORDER table.

E-R Diagram

Snapshots

Index

About Us

Services

Admin Login

Admin Home

Admin views vendor profile

Admin views current vendors

Admin selects vendor to view vendor products

Admin selects category to filter results

Admin views vendor products to buy items

Admin adds product to his cart:

Admin product is added to cart successfully

Admin decides to check out

Admin chooses payment method after noting the order-id

To make payment via card, admin is asked to enter account details

Final bill display

Admin adds product for user to buy

Admin updates/deletes his products

Admin checks order status

Admin views his own order details

Admin views own transactions made in past

Vendor login

Vendor signup

Vendor home

Vendor adds product for admin to buy

Vendor updates his own profile details

Vendor views his own products

Vendor updates an existing product

Vendor approves admin orders

Vendor checks order details before approving

User login

User home

User views admin products to buy

User selects category to filter results

User adds a product to his cart

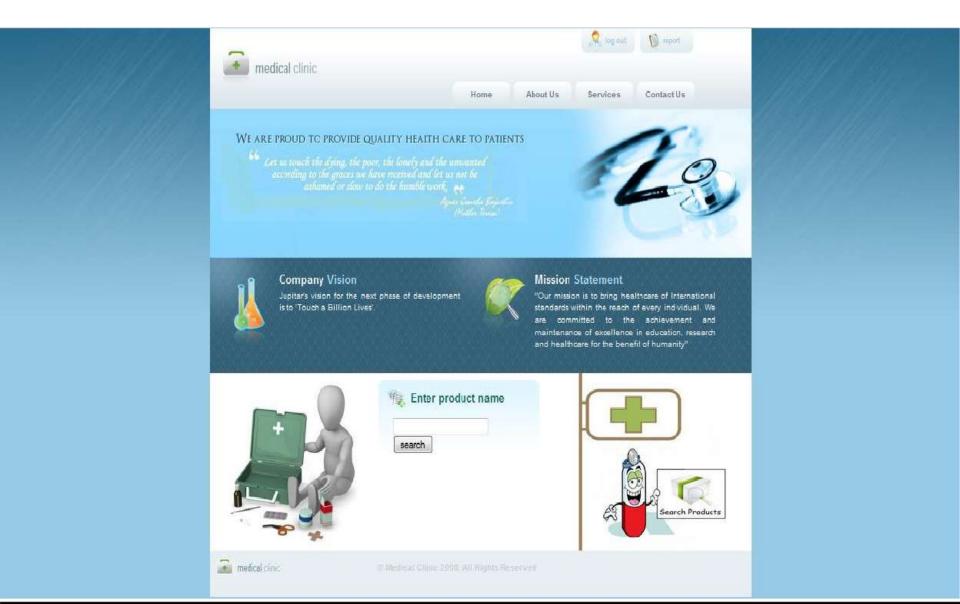# Product is added to cart successfully

User decides to check out

User chooses payment mode after placing the order
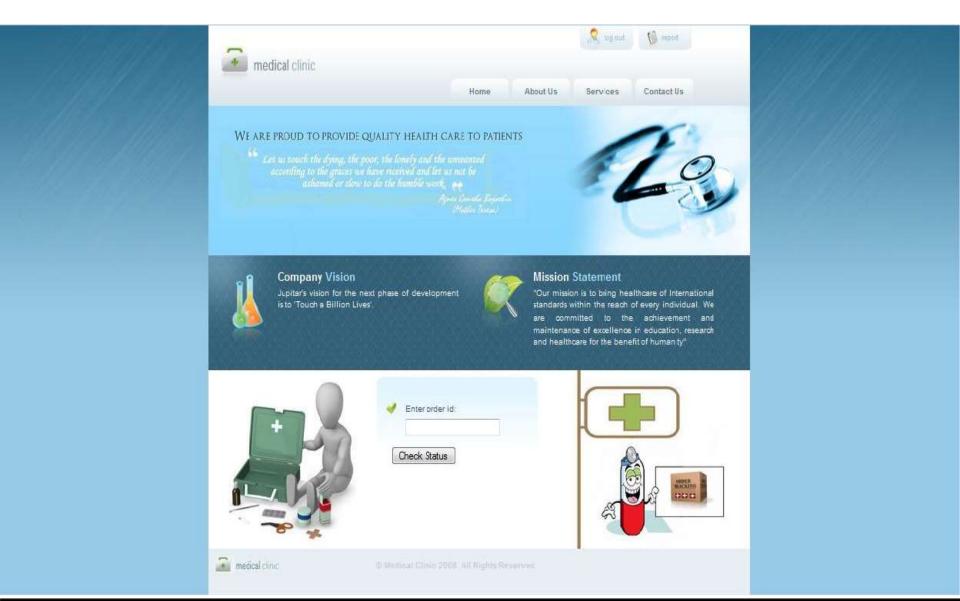
Final bill is displayed after making the payment

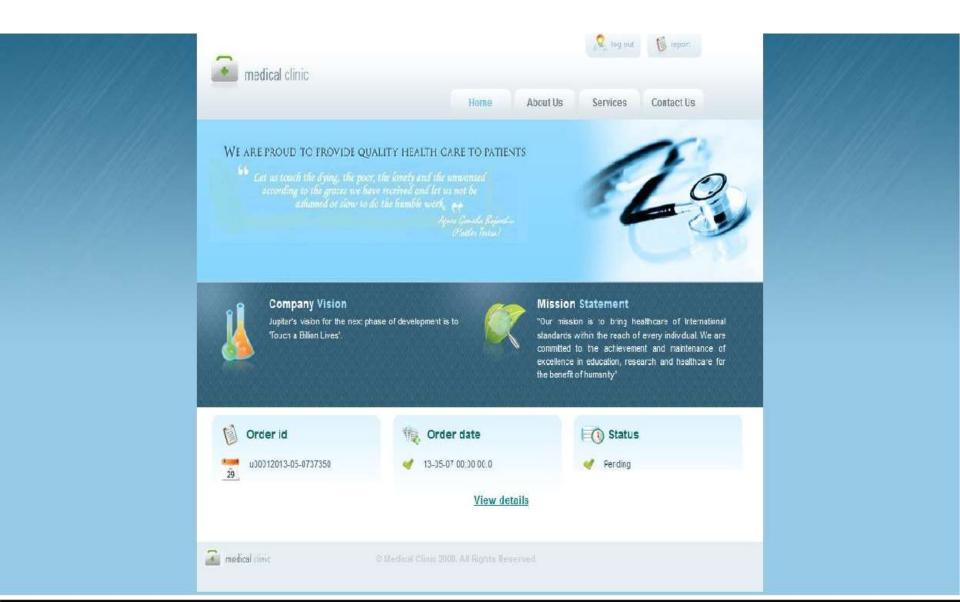# User searches for a particular product
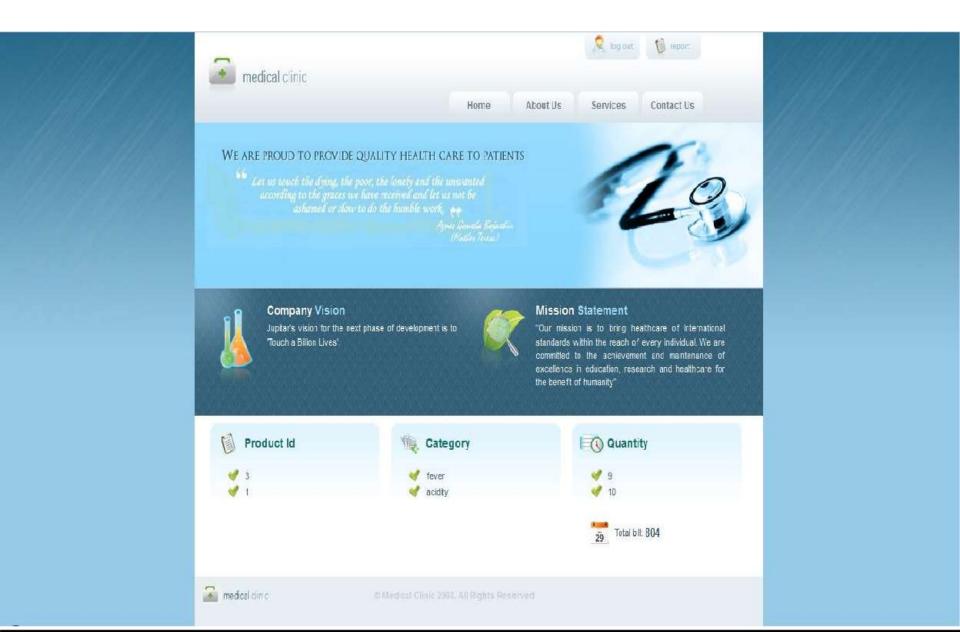
User updates own profile
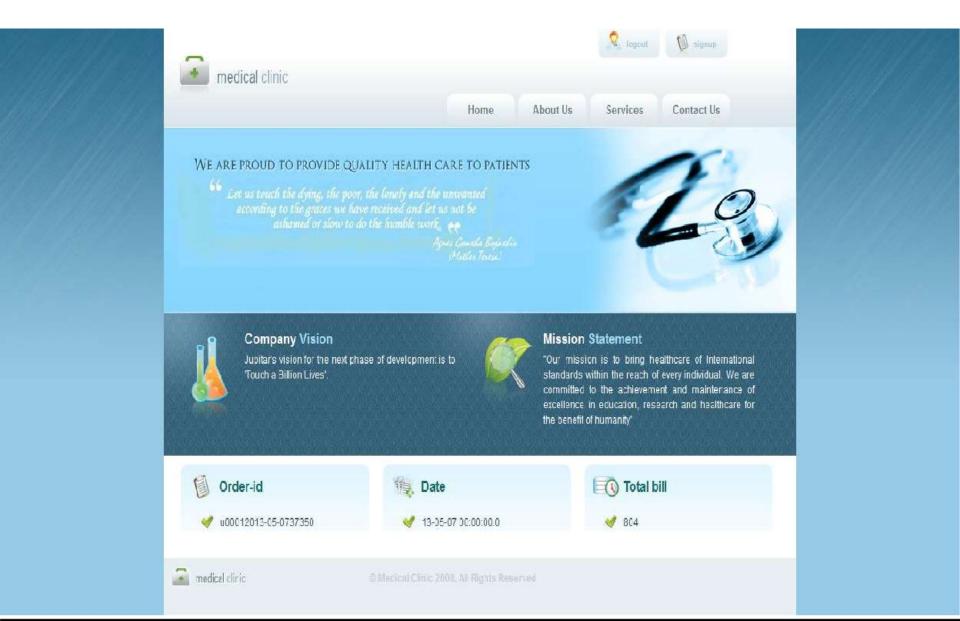
User gives order id to check own order status

User views order status

User views order details

User views own transactions made in past

User views own products