**IUBAT- International University of Business Agriculture and Technology**

**Title of The Project- Development of Store Management system for Shuvo Store**

**Course Name: System Analysis and Design**

**Course Code: CSC 387**

**Section: D**

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**Introduction**

Point of Sell is a software which is a Online shopping platform for the Shuvo Store located in Mosque Road, Brahmanbaria and is a form of electronic commerce which allows consumers to directly buy goods or services from a seller over the Internet using a web browser. Consumers find a product of interest by visiting the website of the retailer directly. An online shop evokes the physical analogy of buying products or services at a regular "bricks-and-mortar" retailer or shopping center; the process is called business-to-consumer (B2C) online shopping. Online stores usually enable shoppers to use "search" features to find specific models, brands or items. Online customers must have access to the Internet and a valid method of payment in order to complete a transaction, such as a credit card.

There are 3 modules in this software:

1. Admin module
2. User module
3. Customer module
4. Product module

In this software we have the options to register as an admin, user or a customer. The admin has all the powers and can perform any task this software is able to do like from managing full website and all the users, manage stores, manage customers, update products. A customer on the other hand can register, update profile, view products, add product to cart and make payments.

**Objective**

1. Service or product advertising: The main purpose of a business site is to promote company’s products, services or events on the Internet.
2. Selling a product or a service online: This is basically the main reason behind the existence of this business website. Selling products and services is the most common objective.
3. Providing product support and customer service
4. Providing corporate information
5. Establishing brand awareness and identity
6. Manages the details of Profiles, Products.

**Several Advantages of our proposed System are:**

1. Convenience.
2. Better prices.
3. More variety: The choices online are amazing.
4. You can send gifts more easily.
5. Fewer expenses.
6. Price comparisons.
7. No crowds.
8. Less compulsive shopping.

**Feasibility Analysis**

Feasibility is the study of impact, which happens in the organisation by the development of a system. The impact can be either positive or negative. When the positives nominate the negatives, then the system is considered feasible.

**Economic Feasibility**

The project is economically feasible as the only cost involved is having a computer with the minimum requirements mentioned earlier. For the users to access the application, the only cost involved will be in getting access to the Internet.

**Technical Feasibility**

To deploy the application, the only technical aspects needed are mentioned below:

1. Operating Environment Windows 7 or more
2. Database SQL Server 2005

For Users:

1. Internet Browser
2. Internet Connection

The software will be technically feasible, since there isn’t much resources that we need in order to get the system running. At the same time we do need to much resource to maintain it as well. System requirements for the project are easily available in the market and thus won’t cause much problem.

**Functional Requirements of the website are:**

1. Speed
2. Mobile Friendliness
3. Ease of use in checkout flow
4. Personalisation
5. Accessibility
6. Register New Customers
7. Update Product details
8. Checkout an order
9. Payment for an order

**User And System Requirements**

• Admin Panel - Log In, Manage, Add, Delete, Update.

• View all the available Products

• Registration and Login for admin, employers and Customers

• Add to cart and Checkout

• Profile (registration, payment, delete)

• System – Windows 7/8/10, Python 3+, Local-host Server

**The functional requirements of this system are:**

• Register new Customer.

• Add products to cart.

• Make Payments.

• Record the details of a customer interaction with the website.

• Register a new admin or employer.

• Register a new user for the system.

• Record the purchase history of a customer.

• Update product details.

• Add or delete products from the list.

• Generate various reports for all transactions in the system

**Non- functional requirements of this system are:**

• Admin can log in by using username and password.

• Customer can log in by using username and password.

• Only Admin can maintain the whole system.

• Admin can remove the records.

• This system support only Windows 7/8/10.

**Entity Relationship Diagram:**

Category

Has

Address

ships

has

Gives

CART

Orders

Product

Customer

Order

**Use Case:**

Customer

Order

Address

Ships

Cart

orderrs

Gives

Category

Has

Product

Admin

Customer

Data Flow Diagram

s User

First level DFD – Shuvo Store

Check Logic Details

Generate System User Report

Generate Products Report

Generate Payment Report

Generate Sales Report

System User Management

Login

Management

Sales

Management

Payment Management

Products Management

Customer Management

MMMmmmm

Generate Customer Report

**Costing**

**System Start-up and Development Cost**

System Analysis & Requirements

System Design

30 Days(198 hrs) -Rs. 900

Development & Implementation

84 Days(494 hrs) -Rs. 5500

Equipment Purchase -Rs. 4000

Software Cost -Rs. 20000

**Implementation Cost**

Computer Furniture -Rs. 7000

Site Preparation -Rs. 3000

Total - Rs. 40,400

**System Maintenance Cost**

Additional equipments -Rs. 1000

Program Maintenance -Rs. 4000

Total Operation Cost/year -Rs. 4000

**System Benefits (Tangible cost reduction)**

Elimination of Errors in ledgers -Rs. 20000

Elimination of Errors in Report Generation -Rs. 40000

Reduction in outsourcing cost -Rs. 40000

Total -Rs. 149,400

**Identifying Complexity for Transaction Function**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **#** | **Transition Function** | **FTRs** | **DETs** | **Complexity** | **UFP** |
| 1 | Signup (EI) | 1 | 7 | Low | 3 |
| 2 | Login (EI) | 1 | 2 | Low | 3 |
| 3 | Add Product (EI) | 10 | 20 | High | 5 |
| 4 | Update Product (EI) | 10 | 20 | High | 6 |
| 5 | View Products | 1 | 11 | High | 5 |
| 6 | Delete Products | 2 | 11 | High | 4 |
| 7 | Add user (EI) | 1 | 7 | Low | 3 |
| 8 | View User (EO) | 1 | 7 | Low | 4 |
| 9 | Update user (EI) | 1 | 5 | Low | 3 |
| 10 | Delete users(EI) | 1 | 6 | Low | 3 |
| 11 | Add Sales (EI) | 2 | 11 | High | 5 |
| 12 | Update Sales | 2 | 10 | High | 5 |
|  |  |  |  | Total | 49 |

**Performance and Environmental Impact**

|  |  |
| --- | --- |
| GSC | TDI |
| Data Communication | 3 |
| Distributed Data Processing | 0 |
| Performance | 2 |
| Heavily Used Configuration | 1 |
| Transaction Rate | 0 |
| Online Data Entry | 5 |
| End-user Efficiency | 5 |
| Online Update | 4 |
| Complex Processing | 1 |
| Reusability | 5 |
| Operational Ease | 4 |
| Total Degree of Influence (TDI)  (Range 0 to 70->influence size by +-32%) | 30 |

**Final Calculation**

Value adjustment factor (VAF) = (0.65+ (0.01\* TDI))

= (0.65+ (0.01\* 30)) = 0.95

UFP= UFP (Data function) + UFP (Transaction function) = 49 + 84 = 133

AFP= UFP \* VAF = 133 \* 0.95= 126 Approx. Total time

Calculation frame = 126\* 15.5

[Productivity of PHP is 15.5] = 1953 per hour

= 1953 person hours / 9 hours

= 217 person days / 4 [person in a group]

= 54 days

= 1 months 24 days

Approximately 2 months required for four persons to finish the project.

**Limitations:**

1. Not mobile friendly: The website lacks responsiveness and thus won’t work properly on mobile phones.
2. The website doesn’t have any cookie options.
3. The database is strong enough to support large number of users at the same time.
4. The website can’t be used in a large shopping center. It is limited to a very small only.

**Possible future updates that can be made:**

All of the above mentioned limitations are not a good sign of any modern website. So a lot can be done in order to make it user friendly modern website. **Conclusion**

Websites are playing important part in improvement of business.70% of the population is using dynamic and interactive websites because of their eye capturing visual effects. Static websites also have their own place for the platform where there is specific information required. Static websites require less investment as compare to dynamic websites. Our project is just to satisfy the demands of a shop to some extent. The project will be good for solving some of the critical problems faced by the organisation. Customers, along with shop owners and employers will be highly pleased after using this website.

We can firstly start working on responsive and then increase the strength of our database along with adding support for cookie system.