**Project Information**

Super Shop Management System

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**17-34664-2**

**Software Engineering (B)**

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**Problem Statement**

Super Shop in a casual environment, a super shop is a large retailer who stocks and sells a wide variety of merchandise including groceries, clothing and general supplies or a large store that sells a massive quantity of goods in one product line such as electronics or shoes.

Supermarket requires stock control system to void out of stock level for each product. By entering product number and required quantity for customer, an admin will be able to process an order. When admin or sells manager process an order the system will display a description, price and available stock of the products. The system will allow products to be paid by cash or other online payment system. The store manager will be able at any time to print a summary report of sales in the store. The catalogue of available products will be maintained remotely.

A digital web based system must be developed to solve the current issues of this current situation.

From this point onward, the system will be called the Super Shop Management System or **SSMS** in short.

**Background Information**

Super shop management software system should be purchased from software package vendors and customized to the departmental Super shop’s needs, if necessary. Customer service refers to a departmental Super shop ability to satisfy the needs of its customers by this Super shop management software system.

So, a web based application/system will be an efficient way to solve these issues. The system will allow handling records digitally.

**Related/similar software systems**

Super shop are usually built outside city center away from other shops. But in our country super shop are built urban area such as Bashundhara, Uttara, Gulshan and so on. Despite the security measures, it is a serious problem that modern thieves steal a lot of expensive things.

In our country there are similar software are available in the market such as Daraz, Evaly, Ajker Dill and so on. They have been doing their business for a long time. But they have not yet won the trust of customer.

What I am proposing this software system is much better than them, because our software will ensure customer’s trust and their product what they are ordered by this system.

**Justifications**

* The system will save customers time.
* The job of the admin is to set all the updated products and prices.
* The system will increase product information and product category.

**Goal**

Build a web portal/application to manage all record for customer information, product information, manager information, product category and so on.

**Objectives**

1. Build an easy to use web application for managing product, customer and manager records.
2. Build a web portal usable from devices of all sizes.
3. Build a web portal that will increase product information by allowing easy searches, record entry and updates.
4. Build a web portal to reduce errors in data entry.

**Modules**

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| **Modules/**  **Work Items** | **Description** |
| Admin | Admin will include all operations related to user accounts – creation, deletion, edits, search and so on. |
| Manager | Manager will deal with storing and retrieving product and customer data. |
| Sells Manager | Provide various reports on bookings and accounts. |
| Security Guard | Deals with security outside of the shop. |

**Scope**

**\*\*\***if any scope changes are required by the client at a later date, then the scope, the time and budget may also change.

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| **In Scope** | **Out of Scope** |
| Design and development of web portal for product, customer data management system | Hosting server management. |
| Testing of system | Database server management. |
| Secure and manageable code | Security for application hosting and/or database server |
| Deployment | Network security |
| Inline Help file generation | Data entry |

**Deliverables**

The complete web application along with all its database schemas.

**Risks**

Government policy may change requiring changes in the project or abandonment of the project.

**Plan of work**

A structured project management approach is being followed.

***Note:*** The time allotted here is subject to change based on client availability to give details to project team

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| **#** | **Phases** | **Details** | **Duration** | **Cost** |
| **1** | **Initial works** | The first task is to fix a space on large scale. Making shelves for storing different products. | 2 weeks | 1.00,000 |
| **2** | **Planning phase** | Make a list what kind of products and fix a position for where the product shelves will be. So that customers can easily find their daily necessities. | 1 weeks | 20,000 |
| **3** | **Execution phase** | Project development team will be executed their initial works and planning phase. Project progress will be monitored based on the schedule created in the previous phase. Design, development and testing of the product will be done by the development team. | 7 weeks | 1,00,000 |
| **4** | **Closing things up** | Look back at things and determine success level of the project. | 1 week | 5,000 |
| **Total Time** | | | **10 weeks** | **2,35,000** |

**Product development work breakdown (7 weeks)**

Traditional waterfall method is used for this breakdown

***Note:*** The time allotted here is subject to change based on client availability to give details/guidance to the implementation team

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| **#** | **Phases** | **Details** | **Duration** |
| 1 | Understand requirements | Requirements will be collected and documented in use case format. | 1/2 weeks |
| 2 | Architecture and design | Architecture of the product will be determined. Detailed design will be created to start the actual development. Technology platform will be decided. Design for data storage (database design) will be created. We will also create an initial test plan and test cases in this phase. | 1/2 weeks |
| 3 | Coding/Implementation phase | Implementation of the use cases will be done based on established practices and standards. Unit testing may be enforced for cleaner code. | 5 weeks |
| 4 | Testing | Testing will be done based on test plan and test cases. User acceptance testing will be done in closed groups. Bug fixes and regression testing will be done here. | 1/2 weeks |
| 5 | Deployment | Deploy the system and make it live for general users. | 1/2 week |
| **Total Time** | | | **7 weeks** |

**Signatories**