

Bangladesh University of Business And Technology



Project Proposal

COURSE CODE: CSE 318

COURSE TITLE : System Analysis And Design Lab

PROJECT NAME : S-Motor Management System

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1. Abstract

The purpose of the S-Motors Management System is to automate the existing manual system by using computerized equipment and full-fledged computer software to meet their needs, so that their important data may be saved for a longer period of time with easy access and manipulation. The necessary software and hardware are easily accessible and simple to use. It can result in an error-free, secure, reliable, and effective management system. It might help the user focus on their other tasks rather than record keeping. As a result, it will assist the business in making better use of its resources. The company can keep digital records without making duplicate entries. That is, one does not need to be distracted by irrelevant information in order to make a conclusion.

2. Existing System Analysis

The existing system depends on fully manual work. All of the purchase invoices are saved through manually specially on notebooks. Besides, it does not store customer information. Sales and buying records are stored in notebooks too.

3. Needs/Problems

We need to convert the entire manual system to an automated software-based system. Furthermore, with the current management system, the majority of work is done manually with paper records. It is a store where we may obtain all of our everyday necessities. This is one of the most challenging jobs to manage. The majority of these tasks are completed by hand. This has a number of disadvantages, including increased paper work, time consumption, information loss, security concerns, a lack of integrated resources, and data duplication.

4. Objectives

The main objective of the S-motors Management System project is to manage product data, sales, payments, and inventories. It keeps track of all product, inventory, and stock information. Because the project is entirely created at the administrative level, only the administrator is assured access. The project's goal is to create an application software that will eliminate manual labor in managing products, sales, inventories, and payments. It keeps track of all the payment and stock information.

5. Development Model

We will be using Agile development model for this project. Our client Doesn't have much computer experience so we decided to use agile model so we can show our demo project or minimum viable project first and then we will keep going forward accordingly.

6. Solution Overview

A. DFD

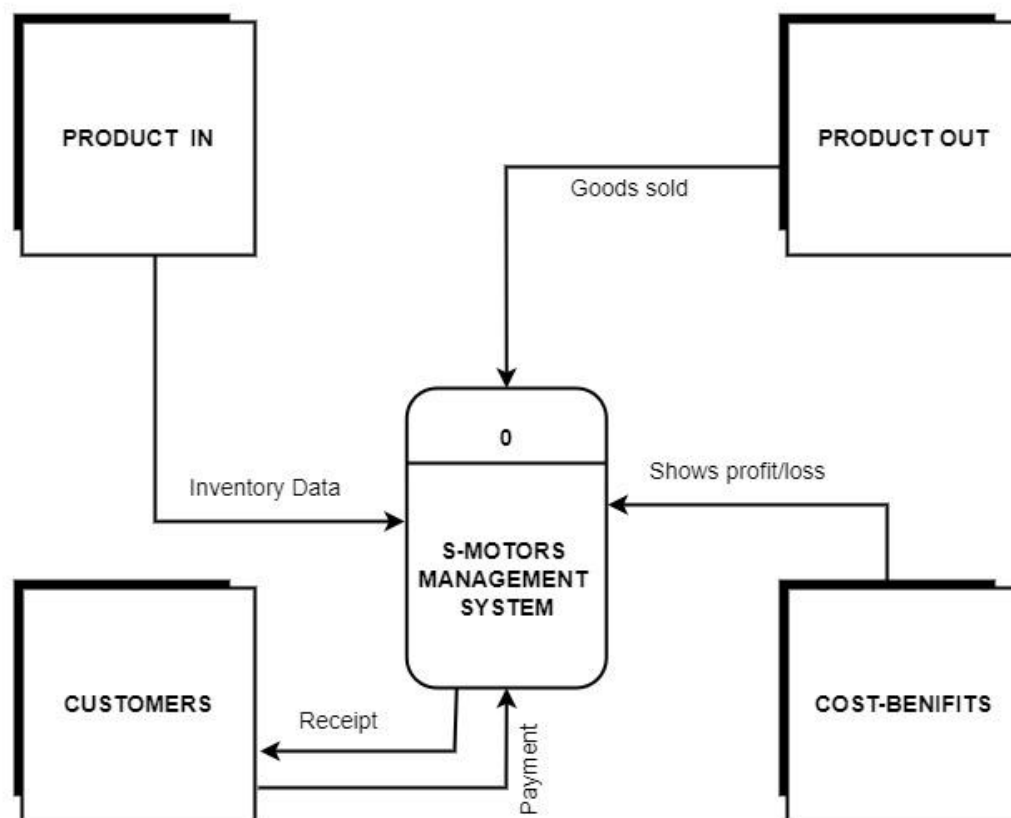


Figure : Context-level Data Flow Diagram

This is a context level diagram which is specially created for the information flow of this project. DFD helps us to better understand process or system operation to discover potential problems, improve efficiency, and develop better processes.

B. Use Case Diagram

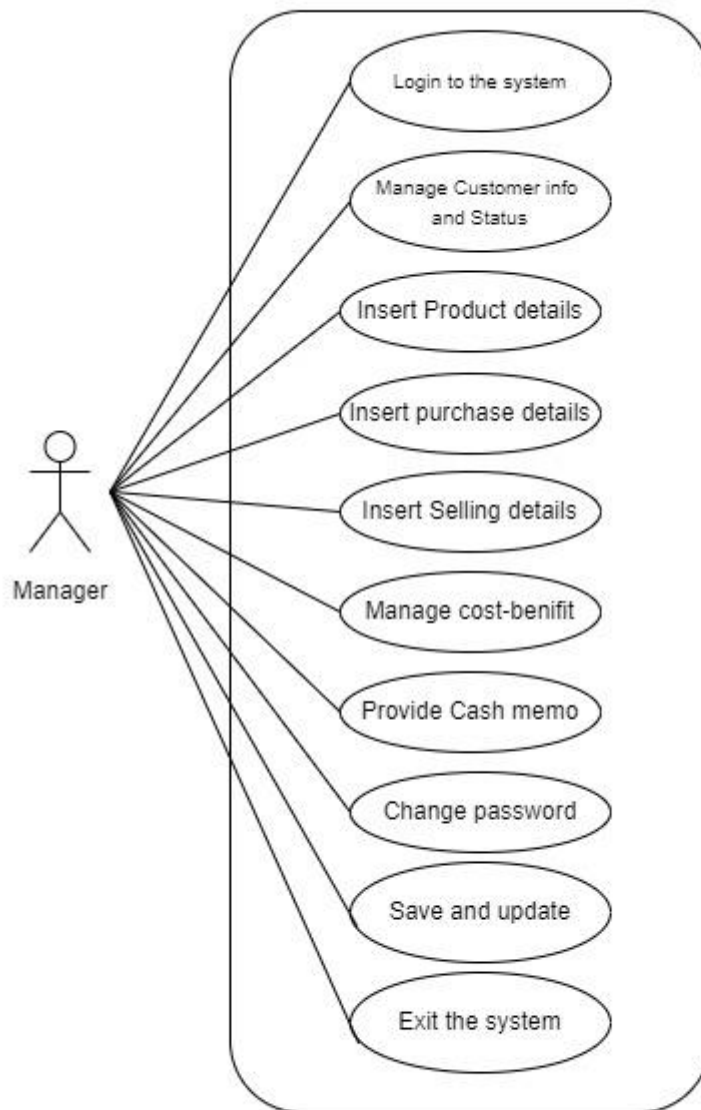


Figure: Use Case Diagram

Use-case diagrams describe the high-level functions and scope of a system. This diagram also identifies the interactions between the system and its actors. But in this project we will have only one type of user connected to the system. So there is only one actor in this system.

C. Entity Relation Diagram

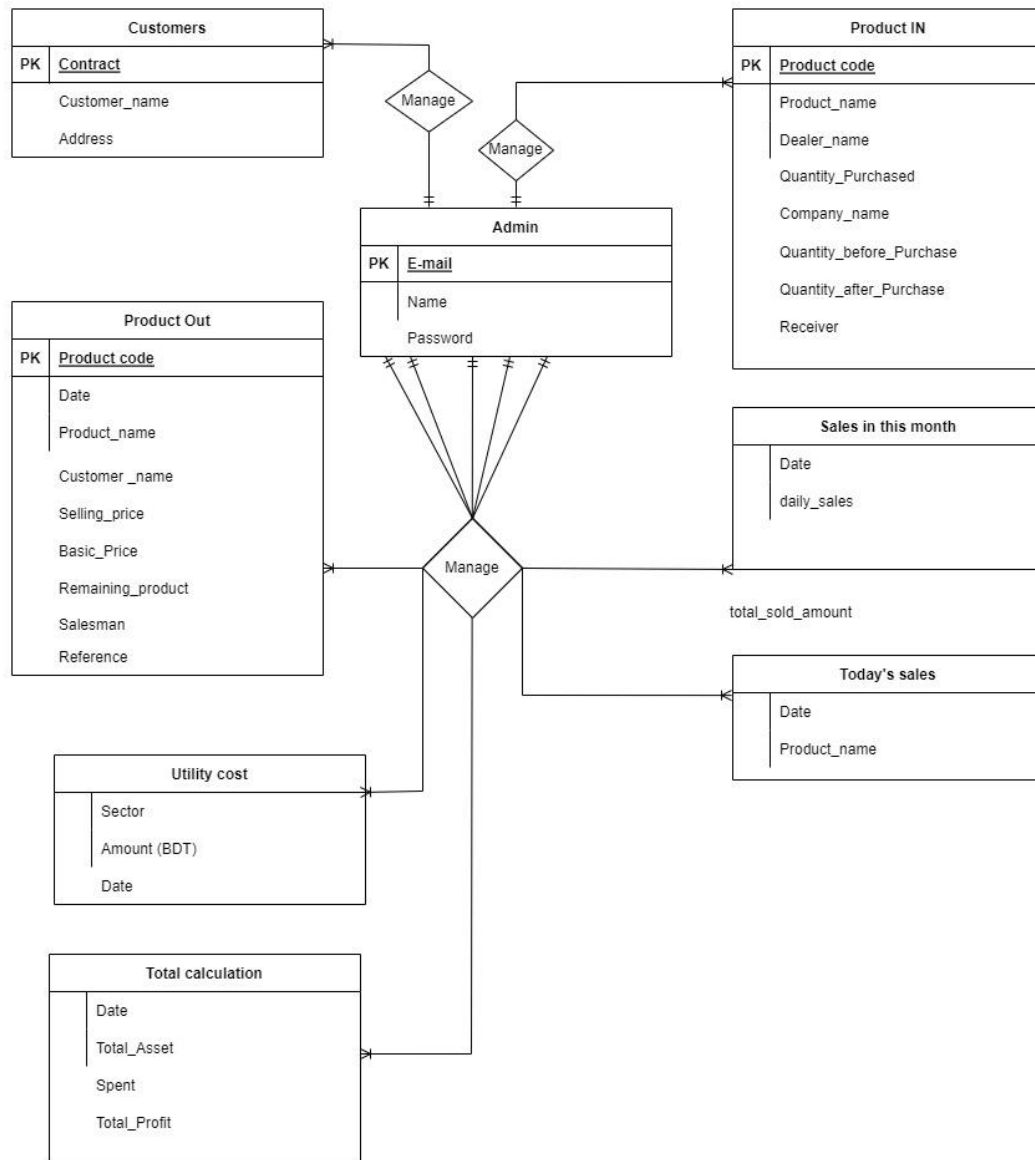


Figure: Entity relation Diagram

An entity-relationship diagram, or ER diagram, is essential for modeling the data stored in a database. It is the basic design upon which a database is built.

7. Requirements

● Hardware requirements

RAM 2GB

Processor: Pentium 100

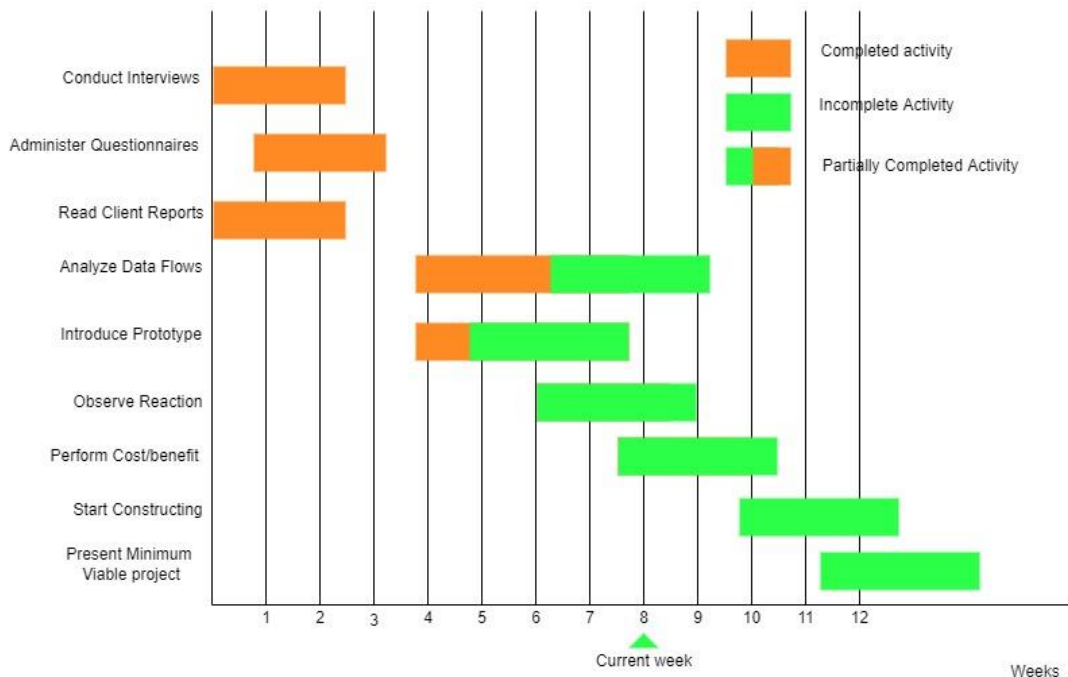
Hard Drive 50GB free storage

● Software Requirements

SQL server Xampp, IDE Netbeans

OS windows 7,8 etc

8. Activity and Time schedule



9. Feasibility Report

Operationally : We have to train them to understand our project properly so that they can know how the system works.

Technical : We do not need to purchase any software or hardware to complete the project as we already have the required software and hardware.

Financial : We will be profited by building the project according to enough budget for the project.

10. Development Team

ID	Name	Designation	Responsivities
19202103126	MD AL Mahbub Hossain	Team Leader	Team managing, Co-coordinating among members and organize the project works to achieve the goals
19202103524	Muhammad Fiazul Haque	Back-End Programmer	JAVA programmer
19202103121	Arman Habib Shihab	DBA	Database design and Administrator
19202103125	Sadia Afrin Akhi	DBD	Database design and Administrator
19202103160	Aurpa Datta	Interface Design	Making System interface with GUI

11.Reference

1. <https://www.iitms.co.in/higher-education-erp/purchase-and-stores/>
 2. <https://www.stallionglobal.com/solutions/store-management-system>
 3. System Analysis and Design Book (Kenneth E Kendall, Julie Kendall)
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