A

Project Report on

Import-Export of Electronics Management System

Submitted to

# Savitribai Phule Pune University

## In the partial fulfilment of the requirement of the award of the degree of

Bachelor of Business Administration- Computer Application,

SYBBA -CA Sem IV

Academic Year 2023-24

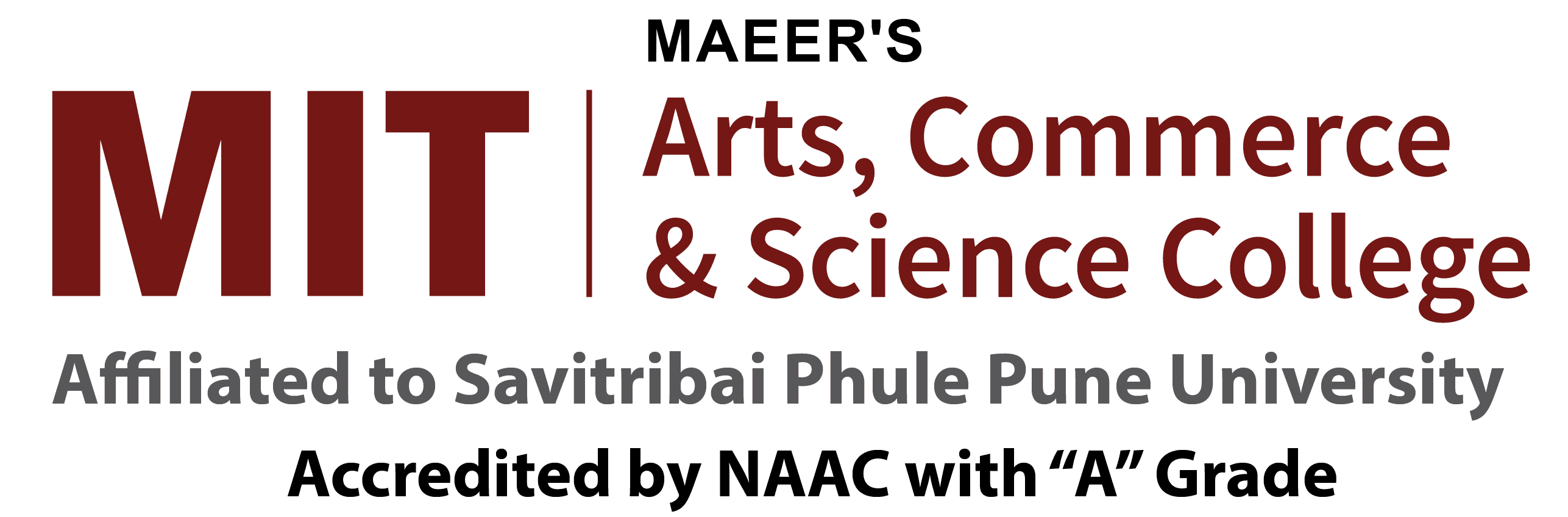
By

Avishkar Santosh Daundkar

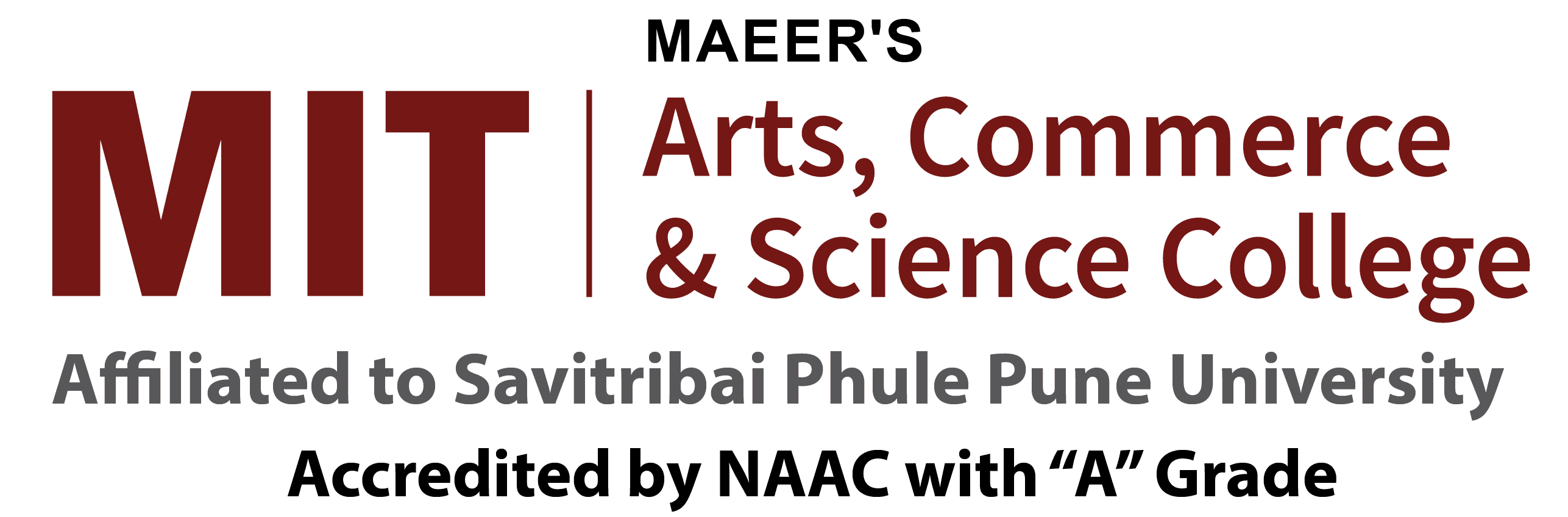
Under the guidance of

Prof.Nishigandha Bhalekar

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**CERTIFICATE**

## Department of Computer Application

This is to certify that **Avishkar Daundkar** , of SYBBA-CA, Sem IV, Exam Seat No : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , has successfully completed project work entitled **Import-Export of Electronic Management System** in the partial fulfilment of the requirement of the degree of Bachelor Of Business Administration-Computer Application for the Academic Year 2023-2024.

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# DECLARATION

I, **Avishkar Daundkar and Samay Sunthwal,** hereby declare that this project work entitled **Import-Export of Electronic Management System** submitted at MIT, Arts Commerce and Science College, Alandi(D), (Affiliated to Savitribai Phule Pune University) is a record of original work done by me under the supervision and guidance of **Prof.Nishigandha Bhaleker** Department of Computer Application.

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# SYNOPSIS

**Import Export Management of Electronics Goods**

**Introduction:**

An import-export electronic management system is a software tool that helps businesses streamline and organize their import and export operations for electronic goods. It provides features and functionalities to manage documentation, track shipments, comply with trade regulations, and optimize logistics. This system assists in facilitating the smooth movement of electronic products across international borders, ensuring efficient and compliant import-export processes.

This project aims to address the complexities and challenges associated with international trade in electronic goods, including regulatory compliance, documentation management, supply chain logistics, and communication barriers.

**Motivation:**

The motivation behind this project comes from the increasing globalization of trade and the growing demand for electronics goods worldwide. With the electronics industry experiencing rapid growth and innovation, there is a pressing need for streamlined and automated solutions to manage the import and export processes effectively. By developing a software management system tailored specifically for the electronics sector, businesses can improve efficiency, reduce costs, and enhance competitiveness in the global market.

**Competitive Marketplace:** The electronics market is highly competitive, with businesses vying for market share and striving to meet customer demands for quality, cost-effectiveness, and timely delivery.

**Need for Efficiency and Automation:** By developing a software management system tailored specifically for the sector, businesses can automate repetitive tasks, streamline processes, and improve overall operational efficiency.

**Complexity of Electronics Industry:** The electronics industry is characterized by rapid technological advancements, diverse product categories, and stringent regulatory requirements.

**Problem Statement**

The import and export of electronics goods face several challenges:

**Documentation Complexity:** The import-export process for electronics goods involves extensive documentation, including invoices, packing lists, certificates of origin, and customs declarations.

**Communication Barriers:** Effective communication among supplier, including customs authorities, shipping companies, and trading partners, is crucial but often more difficult by language barriers and disparate systems.

**Technology Integration:** Many electronic importers and exporters still rely on manual processes or legacy systems, limiting efficiency and scalability in an increasingly digital marketplace.

**Purpose/Objective and Goals**

The purpose of the Import Export Management of Electronics Goods project is to develop a software management system that addresses the specific needs and challenges faced by electronic importers and exporters.

**Generating Bills:** The Import Export Management of Electronics software aids in generating bills, which simplifies the billing process for individuals involved in import-export operations within the electronics industry.

**Tracking Orders:** The Import Export Management of Electronics software assists in tracking orders, enabling individuals involved in import-export operations to monitor the status and progress of orders throughout the supply chain.

**Inventory Management:** The Import Export Management of Electronics software facilitates keeping inventory by providing tools to monitor and manage the stock of electronics goods, ensuring accurate inventory levels and efficient supply chain management.

**Risk management:** Helps inIdentifying Risks associated with international trade, such as political instability, inflation, etc.

**Relationship Management:** Building and maintaining relationships with suppliers, distributers, and stakeholders.

**Literature Survey**

A literature survey will involve researching existing import-export management systems, electronic trade regulations, industry reports, academic papers, and case studies specific to the electronics industry. This survey will help in understanding the current state of import-export practices, technological trends, regulatory requirements, and best practices in the electronics trade.

**Project Scope and Limitations**

Development of a comprehensive software solution covering documentation management, supply chain visibility, communication, compliance management, and efficiency optimization.

Integration with existing systems and platforms used by electronic importers and exporters, including ERPs, customs portals, and logistics platforms.

**However, certain limitations may be faced, including:**

It also has its limitations. Some of these limitations may include:

**1. Dependency on Technology:** The software relies heavily on technology infrastructure, including hardware, software, and internet connectivity. Any technical issues, system failures, or network outages could disrupt operations and impact productivity.

**2. Learning Software:** Users may require training to become proficient in using the software effectively.

**3. Data Security Concerns:** software deals with sensitive data, including financial information, customer details, and trade secrets. Ensuring data security and protection against cybersecurity threats, such as hacking.

**4. Cost:** Implementing and maintaining Import Export Management of Electronics software involves upfront costs for licensing, implementation, customization, and ongoing support.

**The list of products that would be imported or exported using Import Export Management of Electronics software are:**

* **Consumer Electronics:** SmartphonesTabletsLaptopsDesktop ComputersTelevisions
* **Home Appliances:**RefrigeratorsWashing MachinesDishwashersMicrowavesVacuum Cleaners

## **System Analysis**

**Existing System**

The current system involves manual processes or basic software for managing import/export tasks such as shipment tracking, inventory management, coordination with stakeholders, customs procedures, and payments. However, it may lack integration, automation, and efficiency, leading to delays, errors, and inefficiencies.

* **OptiEXIM:-**

OptiExim works as a perfect solution for all your import and export business needs. It allows you to manage your import/export documentation, export sales and duty drawback, container tracking. OptiExim is a comprehensive software solution that helps you to streamline your import/export business operations.

* **Blue Link ERP:-**

Blue Link offers functionality important for importers and exporters such as landed cost tracking, multi-currency support and warehouse management to aid with inventory logistics. These features are part of Blue Link’s all-in-one ERP software that includes inventory management, ac counting, order entry, invoicing, quoting and more.

* **VISCO:-**

VISCO is a fully integrated ERP software for import & export businesses as well as wholesale distributors. The system allows all departments to share the same information from one central location offering a logical next step up from stand alone QuickBooks and the series of Excel spreadsheets to manage the business.

**Scope and Limitation of Existing System**

1. **Scope:**
   * Tracking shipments from origin to destination.
   * Managing inventory levels and restocking.
   * Coordinating with manufacturers, suppliers, and shipping companies.
   * Handling customs procedures and regulatory compliance.
   * Tax compliance under GST.
2. **Limitations:**
   * Manual data entry leading to errors and delays.
   * Lack of real-time visibility into inventory and shipment status.
   * Inefficient communication between stakeholders.
   * Manual Creation of Bank Documents( Imports and Domestic).
   * Vulnerability to security breaches and data loss.

**Project Features**

**Landed Cost Tracking:** Blue Link’s landed cost tracking allows you to accrue costs associated with bringing items into inventory, such as brokerage, duty and freight.

**Integrated Platform**: A centralized system to manage all aspects of import and export operations.

**Real-time Tracking**: Providing stakeholders with real-time visibility into the status of shipments and inventory.

**Automation:** Automating routine tasks such as data entry, documentation, and notifications.

**Analytics:** Generating reports and insights to optimize operations and decision-making.

**Collaboration Tools:** Facilitating communication and collaborationn among stakeholders.

**Security:** Implementing robust security measures to protect sensitive data and transactions.

**Stakeholders:**

**Wholesalers/Retailers:** Require timely delivery of goods, accurate inventory information, and efficient communication channels.

**End Customers:** Expect timely delivery, quality products, and transparency throughout the supply chain.

**Manufacturers/Suppliers:** Need efficient order management, production planning, and shipment tracking capabilities.

**Shipping Companies:** Provide transportation services and require efficient coordination with other stakeholders.

**Requirement Analysis**

**Functional Requirements:**

**Order Management:** Ability to place, track, and manage orders.

**Inventory Management:** Real-time tracking of inventory levels, including stock

availability and location.

**Shipment Tracking:** Tracking shipments from origin to destination, including milestones and estimated arrival times.

**Customs Clearance:** Streamlining customs procedures and compliance documentation.

**Payment Processing:** Facilitating secure and efficient payment transactions.

**Reporting and Analytics:** Generating reports on key metrics such as sales, inventory turnover, and shipment performance.

**Performance Requirements**

**Real-time Updates:** System should provide real-time updates on inventory and shipment status.

**Scalability:** Ability to handle increasing volumes of transactions and data without compromising performance.

**Reliability:** System should be available and reliable, minimizing downtime and data loss.

**Response Time:** Quick response times for user interactions and queries.

**Security Requirements**

**Data Encryption:** Encrypting sensitive data such as customer information and financial transactions.

**Access Control:** Implementing role-based access control to restrict access to authorized users.

**Backup and Recovery:** Regularly backing up data and implementing disaster recovery procedures to prevent data loss.

### SYSTEM DESIGN

**CLD(Context Level Diagram):**

* It is a graphical representation of a system as a whole consisting only one process.
* It represents flow of the data throughout the system.
* It aims to show how entire system works.
* There is only one process in the system.
* And all the data flow Either in or out of this process.
* CLD demonstrate the interaction between process and external entity.
* CLD do not contain data source or database file .
* Is also called zero level diagram.

CLD diagram shows three things :

* All external entities.
* single process level 0 that represents entire system.
* The major information flows i.e data flow between external entity and system.

**Key points:-**

1. Only one process that the whole system acts single sheets.
2. No data store (eg, database is file data store file) .
3. One or more external entry.
4. Two or more data flow.

**Components of CLD**

**1.Process:** Flow of Data

Symbol:

Yourdon Sarson

* Process is a work perform in response to income data flow or condition.
* Process performs same action on data in DFD such as issuing books, checking for the patients, verification of admission, registration process bill, generation process, etc.
* Processes names are Identified by numbers processes has verb face label.

**2.External Entities(input/Output)**

Symbols: **Sarson**

**Yourdon**

* External entities are source or destination

i.e outside that system which may have people, organizations, customer, suppliers, and so on.

* External entities are noun phrase label.

**3.Data Flow**

Symbol:

yourdon sarson

**~**

* Data flow represents input of the data to the process and output of the data from process.
* Data flow has only one direction of flow between symbols.
* Data flow has noun phrase label.
* The symbol is used or solid line with arrow it shows movement of data flow from specific origin to destination.

**4.Use in DFD only data store/data file: [stored data]**

* Store data is kept in data store file.
* Data is store for later use.
* Data cannot move directly from one data store to other data store data must move by process.
* Data store generally correspond to ERD.
* It is represented by one side opening rectangle box.
* Data flow has noun phase label.

**DFD(Data flow diagram)**

* DFD is a graphical representation of flow of data through the system.
* DFD is very useful to understand system.
* DFD shows flow of data throughout the system.
* DFD shows movement of data through different transformation or process in system.
* DFD contains input process data flow output and store.
* DFD can be easily converted into software as they represent flow of the data objects.
* Major processes are broken down into sub processes.
* Level 1 day of day entity store are used by next major processes.
* When you constructing major level 1 DFD we must start be examine context level diagram(CLD).

**CLD(Context Level Diagram)**

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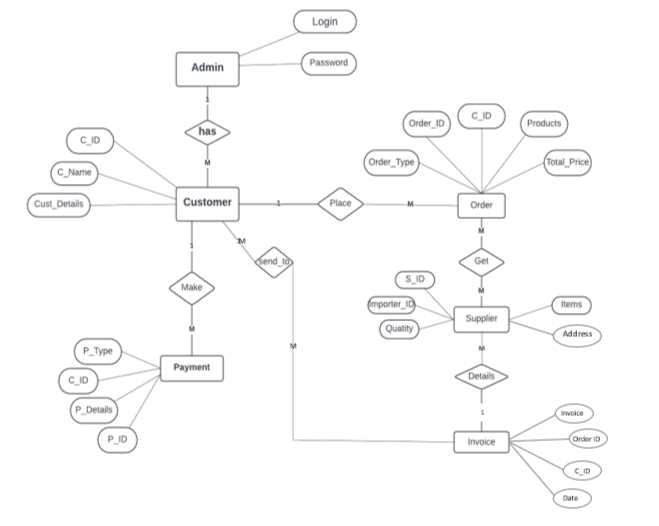
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**DFD(Data flow diagram)**

**A diagram of a product purchase process

Description automatically generated**

**ERD (Entity Relationship Diagram)**



# **SOFTWARE HARDWARE SPECIFICATIONS**

**hardware and software specifications for a Import-Export of Electronic Management System:**

Minimum Hardware Specifications:

* Processor: intel core i3-5005U 2.00GHz
* RAM: 2 GB or 4 GB
* Hard Disk: 120 GB or 80GB

Minimum Software Specifications:

* Operating System: Windows 10or Windows XP, Windows74
* Coding Language: HTML, CSS, JAVASCRIPT, PHP.
* Tool: Visual Studio (For Coding)
* Database: SQL SERVER 200514

# **CONCLUSION AND RECOMMENDATION**

**Conclusion:**

* + It can be concluded that our project "Import-Export of Electronics Management System" which is an Automation of Buying and Selling goods over different Parts of Gloab.
  + It was successfully developed and tested by our system which helps common people to Import-Export Electronic Goods Individually.
  + In conclusion, the development of import-export electronic management systems holds immense potential for revolutionizing global trade operations. By integrating features such as generating bills, tracking orders, and overcoming communication barriers, these systems streamline processes, enhance transparency, and collaboration across the supply chain.
  + It automates various tasks such as inventory management, Billing Process, sales tracking, and customer service, thereby enhancing efficiency and productivity.
  + However, successful implementation requires addressing challenges related to infrastructure, regulatory compliance, cybersecurity, and stakeholder engagement.

**Recommendation:**

Some recommendations should be kept in mind are:

* **Automate billing processes:** Implement features within electronic management systems to automate the generation and processing of bills, invoices, and payment documentation. This not only reduces manual errors but also, improving cash flow management for businesses involved in import-export.
* **Improve order tracking capabilities:** Invest in advanced tracking technologies, such as GPS (Global Positioning System), integrated into electronic management systems to provide real-time visibility of shipments at various stages of the supply chain. This enables proactive decision-making, reduces transit times, and enhances customer satisfaction.
* **Partnerships and collaboration:** Collaborate with industry partners, government agencies, and technology providers to co-create innovative solutions and address common challenges in import-export operations. Pool resources, share expertise, and leverage synergies to drive continuous improvement and innovation in electronic management systems.
* **Implement a comprehensive backup strategy:** Develop a backup strategy that includes regular, automated backups of all critical data related to import-export operations. This should encompass databases, documents, transaction records, and any other essential information.

# **FUTURE SCOPE**

**Advanced Technologies Integration:**

Future systems will likely integrate advanced technologies such as artificial intelligence (AI), machine learning (ML), Internet of Things (IoT), and blockchain to enhance efficiency, automation, and security. AI and ML algorithms can optimize routing and, predict demand, and detect anomalies in supply chains, while IoT devices can provide real-time tracking and monitoring of shipments.

**Globalization and Market Expansion:**

The Ongoing globalization trend and the expansion of international trade will continue to drive the demand for electronic management systems. As businesses increasingly engage in cross-border transactions and trade agreements evolve, there will be a growing need for streamlined, digitized processes to facilitate import-export operations.

**Sustainability and Green Logistics:**

As sustainability becomes increasingly important in global trade, future electronic management systems may incorporate features to promote green logistics practices, such as optimizing transportation routes to minimize emissions, reducing packaging waste, and facilitating the tracking of carbon footprints throughout the supply chain.

**Seamless Collaboration:**

Customers will benefit from enhanced collaboration features within import-export management systems, facilitating communication and coordination with suppliers, logistics providers, and other stakeholders involved in the electronic trade ecosystem.

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