**ABSTRACT**

**Supermarket ERP System** is an ERP application for order management of the goods offered in supermarket. The main aim is to build a transparent supply chain.This system can greatly improve supply chains by enabling faster and more cost-efficient delivery of products, enhancing products’ traceability, improving coordination between partners, and aiding access to financing

The main function of this application is to enable an *unlimited* number of *anonymous* parties to transact privately and securely with one another without a central intermediary. For supply chains, it is to allow a *limited* number of *known* parties to protect their business operations against malicious actors while supporting better performance.

The financial ledgers and enterprise resource planning systems now used don’t reliably allow the three parties involved in a simple supply-chain transaction to see all the relevant flows of information, inventory, and money. A blockchain system eliminates the blind spots and allows the transparency among the parties.

The course offering will be conducted Online, and the meeting link will be shared by the professor. Students can join the online sessions from anywhere in the world at their convenience. They will have the access to the lectures and course materials whenever they wish

The application will allow supplier to add the product to the supplier Directory. These stores will be able to update their online store page with items, prices, coupons, and alternative items for items not always available. The user will login to their account, specify their geographical area and access the contracted stores for that area.

Once a store is selected, user can shop using the store online page for items they need and select a delivery window of time. When order is submitted an employee will pick their list The application must be provably: Of Use - both valuable and usable Robust, portable, scalable, evolvable, etc. Secure - maintain privacy and integrity • Improvement opportunities Location for employee and selection of available and closer employee to store.

**INTRODUCTION**

**“Supermarket ERP System”**

**1. INTRODUCTION FOR PROJECT CONCEPTS:**

Customer can browser through the product catalog and add the items to shopping cart. He can proceed to checkout as long as his shopping cart is not empty. Customer will require to login to the system when he proceed to checkout, or he can create an account if he not yet have one. The order will charge to the credit card registered in customer’s account.

Customer can login to the system to maintain his account information, such as changing phone number, address, and credit card details, and check the status of his orders. Upon order received, the sales staff will process the order by charge to customer’s credit card. Once the order has been charged, he will then mark the order as paid and pass to courier company and deliver them to customer. If the items customer ordered is out of stock, then the order will mark as on hold.

**PROBLEM STATEMENT AND PROBLEM ANALYSIS**

Problem Statement:

Traditional shopping method does allow the customer to browse the product catalog with organized features and applications. The application will allow user to add, update, search and remove product from the cart with an authorized access and roles implementation in the system.

**Problem Analysis:**

1. Customer cannot browse through the product catalog and add the items to shopping cart.

2. Customer need a authorized login to the system to maintain his account information, such as changing phone number, address, and credit card details, and check the status of his orders for accountability in the system.

3. Inconvenience for manage, input, output, and find the data so as to make the unorganized supermarket data to specific, visualizations, rationalization.

**PROPOSED SYSTEM**

Proposed System will be able to do the following:

1.Transparency:.

2.Enhances Traceability:

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3. Increases Efficiency and speed:

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4. Improves Coordination & Financing:

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5. Time & Cost Effective:

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**DESIGN**:

It includes translation of the requirements speciﬁed in the SRS into a logical structure that can be implemented in a programming language. The output of the design phase is a design document that acts as an input for all the subsequent SDLC phases. The design of this app is simple and user-friendly containing six main activities, namely:

1. Register/Subscribe (b) Course Structure and schedule (c) Enroll Course and offering (d) generate transcripts(e)Grant/deny degree by CA

**System Modules:**

i) Professor panel

ii) Student panel

iii) Third party Certificate Authority panel

**SIMPLE ALGORITHM TO OPERATE THE SYSTEM:**

**1. Professor Panel:**

1.1 Subscribe/Renew and Pay the charges to the digital education platform.

1.2 Login to the system and create the professor profile as per specialization area.

1.3 Create/Add/Drop/Update the course/course structure.

1.4 Plan the schedule for the assigned courses.

1.5 Plan the course offering structure for students.

1.6 Create/Update the fee structure of the assigned courses

1.7 create/Modify the course score of students and input it to the transcript system.

**2. Student Panel:**

2.1 Register and login to the digital education platform

2.2 Create the student profile and apply for the specialization.

2.3 Select the courses under the assigned professors and enroll for them.

2.4 Pay the enrollment fees to the professor.

2.5 Select the course offering as per preference.

2.6 View the score board and transcript

2.7 Request the degree from the Certificate Authority at the end of entitled specialization duration.

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**3. Third party Certificate Authority Panel:**

3.1. Admin Login.

3.2 Validate the course enrollments of the student

3.2 Validate the degree Requirements:

credit hour requirement.

Transcript and course scores

3.3 Grant/Deny degree.

* Main Screen:

The main screen consists of three main entities- Professor, Student & Certification authority

Graphical user interface, application

Description automatically generated

* Professor Screens will include:

1. Professor’s work area consists of a “Manage Courses” button through which he can go the main screen which contains all the operations related to courses.

Graphical user interface, application

Description automatically generated

2. On this screen, the professor can create, view, update & delete courses. Also, he can pay fee amount to the digital platform.

Graphical user interface, text

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* Student Screens:

1. The student’s login page will consist of a dropdown which will contain specialization subjects i.e. MIS, CSE, Data Analytics, EM etc.

Graphical user interface, application, Word

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2. The Student’s work area will consist of 3 options as shown below.

Graphical user interface, application, Word

Description automatically generated

3. The Student can view all available courses on the page. He can view course details & enroll them.

Graphical user interface, application, table

Description automatically generated

4. On this page, the Student can view all the enrolled courses. He can view course details, drop courses, provide feedback, Pay fees, view credits completed & Degree.

Graphical user interface, application

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* Certification Authority Screens:

1.The third-party certification authority login page will look like this. It consists of 2 options- view students & faculty.

Graphical user interface, application, Word

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1. The third-party certification authority can see all the student information on this page. They can evaluate the student’s transcript & grant degree.

Graphical user interface, application

Description automatically generated

1. The third-party certification authority can see all the faculty information on this page. They can check if the professor has paid the fees or not.

Graphical user interface, application

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4. The third-party certification authority can see the student record on this screen. They can grant degree if the student completes the required credits.

Graphical user interface, application

Description automatically generated

**CONCLUSION**

The Professor as a service model thus overcomes the drawbacks of the traditional University model where the education institute is the central authority governing the course structure, course fees, transcript and degree management. Here, the students and professors are not entitled to external entity for the education structure, so they can plan their course structure which best fits their specializations and career aspirations.

This system brings in the benefits of distance learning to both students and professors.

The students will pay only for their course enrollments and thus eliminating the extra charges which makes education affordable to everyone.

Thus, such education model will make education easily accessible and affordable to the less fortune.