

Managing and Billing Software for Hypermarket

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Abstract

It previews the whole system design while in the free demo session and clear your queries by experiencing Optech's digital dashboard. In the navigation system, we optimize the UI to be straightforward and comprehend for all sets of people so the employees grasp this entire operation. The Optech software has been developed with VB.net and MY SQL Server. The system is efficient in generating reports, which will help in the maintenance of the hypermarket easily. This Optech software can store a lot of records in the database. It's a user-friendly software, which can be used for service, sales and report. It has an unlimited storage and application can be used in both online and offline. Reports for billing can be generated by data wise or pricewise.

Keywords: Hyper Market, Managing, Billing, Optech Software.

Introduction

The Optech software can unlock many unlimited features that automatically reveal ways to attain peak performances on your sales via this billing system without any huge investments. This software is easy to use and gives affordable pricing by providing lifetime license for both online and doorstep service.

This project is ideal for the dealers and the customers. The Dennis department stores control panel can be accessed anywhere at any time. Optech Software describes the complete process of billing the products to the customers from the Dennis market. So, the main point of this scenario is recording the transactions to current asset. While executing the process, the dealers can manually maintain the transactions, which means, the product code or product name that are sell to the customers.

Due to increased rivalry brought from the globalisation, every reliance smart supermarket strives to draw customers and maintain their satisfaction, loyalty, and retention. This will encourage buyers to make additional purchases from the same supermarket. Additionally, managers everywhere agree that enhancing customer satisfaction boosts revenue and profitability for businesses [1]. Competition in the supermarket industry has increased as a result of the emergence of mall culture. Mall culture is rapidly growing in India. There are many new brands being introduced to the Indian market.

Research institutes, startup businesses, and major organisations never cease to amaze us with the rate and scope of their groundbreaking scientific and technology discoveries [2]. New products and services have made what was once considered "science fiction" a reality; without them, it would be impossible to conceive running a company, much alone a life. It wasn't just about doing things quicker than "the old way"; as digital technology advanced, people started coming up with new ways to put it to use in business. That is when the concept of digital transformation started to materialise.

One part of this work's methodology involved building a theoretical framework by analysing national and international articles. The goal was to compile a list of what the leading theorists have to say about concepts like innovation, competitiveness, multichannel, and Omnichannel. Using the Narrative Literature Review, we identified six articles that were particularly relevant to this topic based on factors like number of citations, authors' fields of study, titles, keywords, and abstracts [3]. The second step is to conduct a case study that compares and contrasts two of the biggest retail chains in the nation from the viewpoint of innovation management. The study will focus on the two most prominent areas of each chain, supermarkets and clothing stores, and will describe the innovations that each store used.

The purpose of retailing is to meet the needs and wishes of consumers by selling them items and services for their own use or use around the home. From its origins as a buying habit in the commerce cycle, modern retailing has evolved into a means of communicating a delightful shopping experience. Everything having to do with selling goods and providing services for individual, household, or group consumption is known as retailing [4]. Everything from cars to clothing to food is part of the deals, and services range from haircuts to air conditioning. Selling goods and services to consumers is the main goal of retailing. Another, more familiar definition is that it entails purchasing goods in bulk from manufacturers or wholesalers and then selling a smaller quantity to consumers for a profit.

When deciding how much money to spend on a product, consumers take a number of factors into account, including recommendations from friends and family, their own impressions of the product, and whether or not it meets their immediate or long-term needs. Consequently, the price of a product or service might be the deciding factor for consumers. Many factors influence consumers' purchasing habits, regardless of any inherent distinctions between individuals or groups [5]. When we talk about personal factors, we're talking about characteristics that are unique to each person. The consumer's values, lifestyle, personality, profession, and lifestage are all aspects of the consumer that influence their behaviour.

Literature Review

Ahmed et. al [6] Artificial intelligence (AI) deployment has become somewhat essential to keep up with the industry's shifting trends. The application of artificial intelligence in LIFVS, an unmanned grocery store in rural Sweden, is examined in this case study. Due to the high cost of upkeep, the number of supermarkets in rural areas has been declining over time, and many have chosen to close their doors. As a reaction, co-founder Daniel Ludh (henceforth Daniel) developed a sustainable business model utilizing AI, enabling supermarket chains to satisfy rural customers' needs while controlling expenses. Along with outlining LIFVS's success and discussing the many difficulties faced by unstaffed supermarkets, the case also paves the way for upcoming industry retailers.

Toukola et.al [7] Working together, especially in the front end when significant design decisions are made, is necessary to create value in UDPs between private companies and municipal actors. Data from 27 semi-structured interviews conducted in a middle-sized Finnish city were used to compile the qualitative case study. Based on our data analysis, four value co-creation processes—procurement, negotiation, zoning, and exploration—involving private companies and municipal actors were classified. Understanding value co-creation in UDPs can be gained from the study's findings. This study adds a new understanding of each value co-creation process, its traits, and the co-created values that result from it to the recent literature on value-creation.

Bhatia and Bhatt [8] The purpose of this study is to determine the validity and reliability of the five-dimensional retail service quality scale in the context of organized apparel multi-brand retail stores in India. It also looks at how the factors that influence service quality directly affect overall service quality. It additionally endeavors to explore the relationship between customer loyalty and satisfaction and the quality of retail services. This suggested relationship between the constructs is tested through structural equation modeling. The scale's validity and reliability were confirmed by the study's conclusions. The results showed the relationship between retail service quality and customer loyalty to the stores, as well as the mediating role of customer satisfaction in this relationship. It also looks at how different aspects of service quality affect customer satisfaction and loyalty.

Yusoff et. al [9] This is frequently a laborious and drawn-out procedure. During busy periods, like the weekends or holidays, these issues are frequently made worse. It is not uncommon for wait times to exceed fifteen to twenty minutes. But wireless communications' widespread use has made it possible to create smart e-commerce products that might make this process easier. With the use of an Arduino microcontroller and radio frequency identification (RFID), this project aims to create a sophisticated scanner trolley system. An RFID reader is used by the user to simply scan each item. Once shopping is complete, the user can use a debit card that is linked to a loyalty card to pay for his purchases. By using the Internet of Things, the Smart Trolley terminal will automatically send a text message receipt (IoT). Other than scanning their loyalty cards, registered customers are not required to submit any personal information. With a scalable, affordable, and long-lasting system, the goal of this project is to make in-store shopping easier.

Lehrer and Almor [10] The goal of this research was to thoroughly examine the scope and essential elements of blockchain-based supply chain financing, given the significance of supply chain financing and the rapid advancement of this technology. The SCF framework was presented in these applied enterprises, and chain stores were examined as a case study to analyze the significance of supply chain financing. A blockchain-based supply chain finance system also identifies and assesses the most significant KPIs, paying particular attention to chain store operations. A hierarchical non-linear analysis technique was applied to assess the data. As evidenced by the findings, one of the most crucial performance metrics of the blockchain-based supply chain finance system is the transfer and reduction of various risks.

Proposed Methodology

Modules in the System

Some of the modules in the systems are,

Smart Scan

This module scans the information about the purchased products and stores the details like product name, price, manufacture date, expire date, batch number, ingredients used in the product, net volume of the product, ISO certified, contact details, trademark.

Register Entry

This module gives the information that windows continually references during operation, such as profiles for each user like employee code, employee name, In/Out time.

Payrole Processing

The comprehensive personnel data and salary details are handled by this module. Daily wages and monthly salary are the two main components of the total compensation. Employee details such as name, address, phone number (both landline and mobile), email, date of birth, salary type (monthly or daily), and other related information are entered into this module.

Sales Bill

This module records the information about the bill number, Date and Time of the item purchased, party /customer name and the payment methods such as cash or credit or UPI payments.

Ledger

In this module all, the transactions are required on the basis of timing, where we can see the actual price and MRP price separately with the percentage of Tax. Basically, there are two types of ledgers such as ledger book and multi ledger.

Current System

In order to convert data intake, processing, output, storage, and control, the current system was examined and analysed in terms of its usage of hardware, software, networks, and human resources. The system that unifies a company's many operations. Purchase management, sales management, material management, payroll, and a host of other functions are all part of running a business, no matter how big or little. The goal of enterprise resource planning (ERP) software is to centralise data management for an organization's many operations into a single database. All users will be able to write to or read from a single database, which will make it easier to show the combined information of different functions. You can provide a comprehensive overview of your company because all the functions are managed and integrated in one database.

The important functions of ERP systems. i9

- Production Management: Enterprise Resource Planning (ERP) systems aid in the planning and optimisation of manufacturing processes by analysing demand and consumption patterns in the past to determine the best use of manufacturing capacity, parts, components, and material resources, among other things.
- Here, ERP systems simplify the acquisition of stock and other supplies, which is a key component of purchasing management.
- The ERP system plays a crucial role in inventory management by ensuring that the right amount of inventory is always on hand.
- Improved process efficiency from order to invoice to cash is the goal of sales management software.

Data Flow Diagram

A data flow diagram shows the way information flows through a process or system. It includes data inputs and outputs, data stores, and the various sub processes the data moves through. A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system.

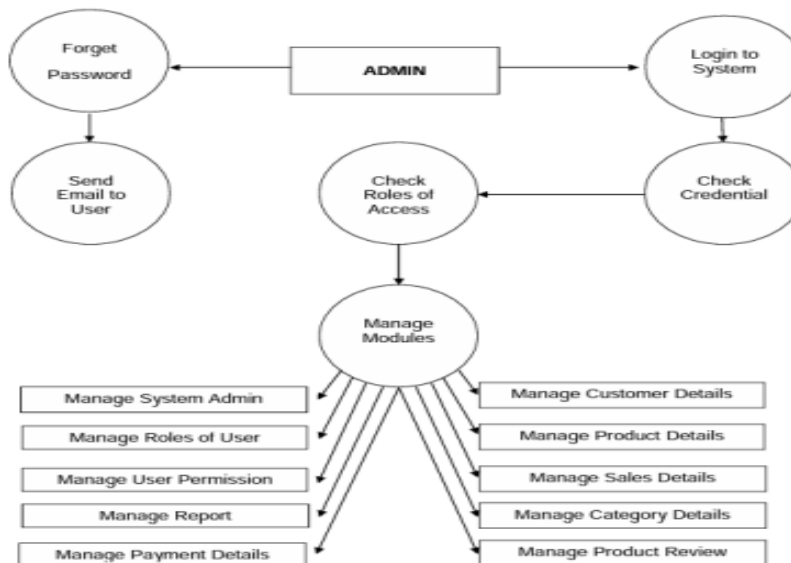


Fig. 1: Data Flow Diagram for Dennis Hypermarket

System Specification

Software Environment

A system requirements specification is generally prepared in response to a user requirements specification or other expression of requirements and is then used as the basis for system design. In terms of both breadth and depth, the requirements expression differs from the system requirements specification. The latter may encompass the future system and its operating environment, but it may fail to hone many overarching ideas. System requirements and specifications have typically been documented in a more traditional, text-based format.

Hardware Requirement

The required system configuration for software development and software implementation is used in this project are,

Table 1: Hardware Specification

System	HCL/HP
System Type	32-bit Operating System
Processor	Intel® Core™i3-4170T CPU 320GHz
RAM	4.00 GB (3.14 Usable)

Software Requirements

The project uses three basic software requirements the platform in which the project is developed, the front-end tool that provides the interaction with the users and the back- end tool that stores the data in the windows 7 OS version System.

Table 2: Software Specification

Operating System	Windows 7
Frontend	SQL Express (default)
Backend	Visual Basic.Net

Overview of Frontend

To create interactive web pages, web developers often turn to Visual Basic.NET, a platform for server-side web applications. Microsoft created it so that developers could create interactive websites, apps, and services for the web. It is the next generation of Microsoft's visual basic (VB) technology and was initially launched in January 2002 with the .NET Framework version 1.0. Thanks to its foundation in the Common Language Runtime (CLR), Visual Basic for .NET makes it possible for developers to use any .NET language to create ASP.NET applications. To enable VB.NET components to handle SOAP messages, the framework provides an extension for VB.NET called VB.NET SOAP.

Custom Controls

In addition, VB.NET allows programmers to create their own controls. These controls are different from user controls in that they are built into a dynamic link library (DLL) rather than using an ASCX markup file. These bespoke controls are highly versatile and may be utilised in a variety of Visual Studio projects and online apps.

User Controls

For purposes of vb.NET, etc., user controls are essentially encapsulations of page parts that may be registered and utilised as controls.

In-process Mode

It is within the ASP.NET process that the session variables are kept. This is the quickest option, but it also deletes all variables once the ASP.NET process is recycled or terminated.

Session State

A group of session variables set by the user remain in memory throughout the session and hold the server-side session state. Every instance of a session has its own set of variables that may be accessed through the Session collection. You have the option to have the variables deleted automatically after a certain amount of time, regardless of whether the session ends or not. Two methods exist for keeping a user's session alive on the client side: cookies and URL encoding of the session ID.

Rendering Technique

A rendering approach called "visited composites" is used by VB.NET. The initialization function constructs a control tree (the composite) that represents the original template by compiling the template file. Instances of the Literal control class include literal text, while instances of a specified control class represent server controls. A page-specific class is generated by combining the initialization code with user-written code, typically through the assembly of many partial classes. To top it all off, the page is also the control tree's root. There are a lot of steps involved in processing actual page requests. To begin, the initialization code is executed and a page class instance is generated during the initialization phases. In the steps that follow, the page's methods usually manipulate the initial control tree that this produces. The code has the ability to modify both the structure of the tree and the properties and methods of the individual nodes since every node in the tree is a control that is represented as an instance of a class. In the end, the rendering process involves sending a visitor to each node in the tree and instructing them to render themselves using the visitor's methods. The client receives the HTML output that has been generated.

Upon completion of the request, the control tree and the instance of the page class are discarded. For inexperienced VB.NET developers, this means that every time a page is requested and returned, the members of the class instance are lost.

Application

A set of shared user-defined variables holds the application state. Upon initialization of the first application instance, these are set and initialised in the Application_OnStart event. They remain available until the last application instance departs. A wrapper for the application state, the Applications collection offers access to application state variables. There is a system in place for naming application state variables.

State Server Mode

A standalone Windows service is used by VB.NET to manage the state variables. The VB.NET engine uses .NET Remoting to retrieve data, which causes state management to occur outside of the VB.NET process, making VB State slower than In-Process. Using this mode, a VB.NET application can be made to scale across numerous servers and load balance. Session's variables can be preserved even when VB.NET processes are closed, thanks to the state management service's ability to operate independently of VB.NET. But there is still a single point of failure with session state due to the fact that session state server operates as an instance. There are limitations on the types that can be saved in session variables and load-balancing is not possible for the session-state service.

Overview of Back End

Microsoft SQL Server Express

You can download or share Microsoft SQL Server Express, a version of SQL Server, a relational database management system, for free. It is comprised of a database that is designed for smaller-scale and embedded applications. The product's origins can be found in SQL Server 2000's Microsoft Database Engine (MSDE). Since SQL Server 2005 was released, the 'Express' branding has been in use. For embedded application clients, light Web apps, and local data stores, Microsoft SQL Server Express Edition (SQL Server Express) provides robust capabilities, data safety, and performance. You are free to share SQL Server Express with applications; it is designed for easy deployment and rapid prototyping. It is also accessible at no cost. Integrating SQL Server Express with your existing server infrastructure investments is made easy because it is a component of the Microsoft Windows Server System. The SQL Server Express Edition is ideal for lightweight application development or application embedding due to its 10-gigabyte database size limit, support for one CPU, and 1GB of RAM.

Capabilities

You may access a lot of the functionality of Microsoft SQL Server, a database management system, with SQL Server Express, which is free of charge. But certain large-scale installations can't use it because of its technical limitations. The Express product differs in a number of ways. For example, in SQL Server 2012 and 2008 R2 Express, the maximum database size is 10 GB per database, but in SQL Server Express 2005 and prior, it was 4 GB, and in the previous MSDE, it was 2 GB. Users can access additional data through the use of numerous interconnected databases in specific cases, although this limit applies per database (log files excepted).

Hardware-utilization Limits

Single physical CPU, but multiple cores allowable 1 GB of RAM (runs on system with any RAM amount, but uses only at most 1 GB)

Unlike the predecessor product, MSDE, the Express product does not include a concurrent workload-governor to "limit performance if the database engine receives more work than is typical of a small number of users."

SQL Server Express includes several GUI tools for database management. These include:

- SQL Server Management Studio Express
- SQL Server Configuration Manager
- SQL Server Surface Area Configuration tool
- SQL Server Business Intelligence Development Studio

The predecessor product MSDE generally lacked basic GUI management tools, Features available in SQL Server "Standard" and better editions but absent from SQL Server Express include:

- Analysis Services

Features

In our desktop billing software, you can unlock many unlimited features that automatically reveal ways to attain peak performances on your sales via this billing system without any huge investments. Take a look at our products, which fits all circumstances to deliver high-standard solutions. So, we can assure you to buy our software license with the lifetime free services from 'Optech'.

User Friendliness

- Preview our whole design system while in the free demo session and clear your queries by experiencing Optech's digital dashboard.
- In our navigation system, we optimized the UI to be straightforward and comprehend for all sets of people so you & your employees grasp this entire operation in less than an hour of training.
- Hundreds of in-built templates are available in our billing software to impress or attract your clients with clear & stylish designs.
- Generate some unique invoice templates and quotation sheets with multiple themes which suit your business model and build an unusual vision from other brands. In Optech software, you can even print your brand logo on your bills & invoices seamlessly at any time of statements.

Customizable Bill

- Hundreds of in-built templates are available in our billing software to impress or attract your clients with clear & stylish designs.
- Generate some unique invoice templates and quotation sheets with multiple themes which suit your business model and build an unusual vision from other brands. In Optech software, you can even print your brand logo on your bills & invoices seamlessly at any time of statements.

Cost Effective

- Financial relation between Optech & our customers is well treated from your software purchasing time to the nth number of services. Constant behaviours and responses you will receive from our team whenever you need any technical correction on our billing software without any deny & charging prices.
- We are restricted with high price packages so even small start-ups can easily purchase at a minimal and acceptable fee wholeheartedly.

Security

- A billing software must have bank-level security or encryption to deter the leaks of customers' data, money, and information via online hacks.
- Here at Opech, we have raised our billing software's security protocols to a mighty standard level with the latest power tools & we arranged a dedicated team to avert security mishandling.

Accounts Management

Any solid financial firm would have integrated accounting and finance management. The process is made easier with multi-position grouping of accounts and built-in automatic tally posting. As an example, the system will automatically create a payment entry whenever you create a new entry. Optech provides the resources you need to analyse and enhance your profitability.

ERP Software

ERP software streamlines the order management system from order to invoice to cash, which increases process efficiency. Additionally, ERP software streamlines the process of purchasing stock and other supplies with its thorough tracking ability.

Any company relies on its purchase and sales procedures, thus it's critical that ERP software can adapt to different needs. Why? Because every company has its own unique way of handling orders. Even within the same company, procedures can vary depending on the season, the type of product, the type of party involved, or even the sales cycle.

There are several moving parts in the ERP purchasing process, including requests for customisation and vendor capabilities that are not always clear. It is typical practice, and often required for enterprise vendors, to seek out third-party assistance when implementing an enterprise resource planning system.

Research and Discussion

System Design

The goal of systems design is to define the data, architecture, components, and their interfaces as well as the system's modules in accordance with the requirements. It is the method by which a company or organization's unique demands and requirements are defined, developed, and designed into a system.

Input Design

Data that is processed in an information system is called input. Developers need to think about input devices like PCs, MICRs, OMRs, etc., while they're doing the input design. That is why, it is the input quality that dictates the output quality of a system. Impressively crafted

The suggested system relies solely on menus for operation. When it comes to interactive design, it's a powerful tool. As an added bonus, it keeps the user from picking the wrong option by making it easier for them to understand the variety of choices. You can interact with any of the entering screens. All of the end-user requirements have been carefully considered during the design process.

Input forms and screens have following properties:

- It should serve specific purpose effectively such as storing, recording, and retrieving the information.
- It ensures proper completion with accuracy.
- It should be easy to fill and straightforward.
- It should focus on user's attention, consistency, and simplicity.

Table Design

A well-structured database

- Saves disk space by eliminating redundant data.
- Maintains data accuracy and integrity.
- Provides access to the data in useful ways.

Designing an efficient, useful database is a matter of following the proper process, including these phases

- Requirements analysis, or identifying the purpose of your database
- Organizing data into tables
- Specifying primary keys and analysing relationships
- Normalizing to standardize the tables

Common data types include

- CHAR - a specific length of text
- VARCHAR - text of variable lengths
- TEXT - large amounts of text
- INT - positive or negative whole number
- FLOAT, DOUBLE - can also store floating point numbers
- BLOB - binary data

Table 3: Customer Table

Field name	Data type	Constrains	Description
C_id	Int	Primary key	Customer id
Name	Varchar		Customer name
Contact_no	Int		Contact number
Address	Char		Address
Email	Varchar		Mail id

This table 3 describes the Customer details. Customer detail is a primary key and the table includes following attributes like cust_id, cust_name, Contact_no, address, email.

Table 4: Supplier Table

Field name	Data type	Constrains	Description
Sup_id	Int	Primary key	Supplier id
SName	Varchar		Supplier name
Contact_no	Int		Contact number
Address	Char		Address
Email	Varchar		Mail id

This table 4 describes the supplier details. supplier detail is a primary key and the table includes following attributes like sup_id, sup_name, Contact_no, address, email.

Table 5: Sales Table

Field name	Data type	Constrains	Description
S_id	Int(11)	Not Null	Sales id
F_id	Int(11)	Not Null	Fruit id
fname	Varchar(25)	Not Null	Fruit name
c_id	Int(11)	Not Null	Customer id
cname	Varchar(25)	Not Null	Customer name
Qty	Int(10)	Not Null	Quantity
rt	Int(10)	Not Null	Rate
tamt	Int(10)	Not Null	Total Amount

The Table 5 describes about the sales details. The table consist of the following attributes S_id, f_id, fname, c_id, cname, Qty, rt, tamt.

Table 6: Billing Table

Field name	Data type	Constrains	Description
b_no	Int(11)	Not Null	Bill number
F_id	Int(11)	Not Null	Fruit id
Fname	Varchar(25)	Not Null	Fruit name
c_id	Int(11)	Not Null	Customer id
Cname	Varchar(25)	Not Null	Customer name
Qty	Int(10)	Not Null	Quantity

The table 6 describe about the bill details. The table consist of the following attributes b_no, f_id, fname, c_id, cname, Qty.

Output Design

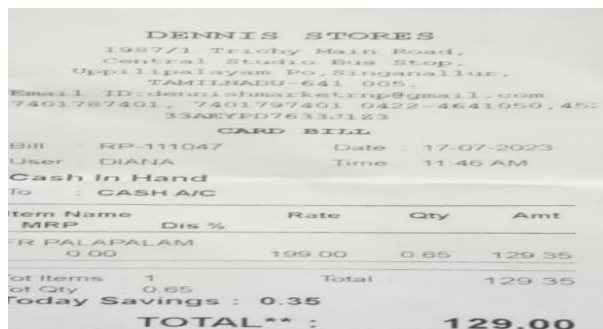
Computer output is the most important & direct source of information to the user. The system is accepted by the user only by the quality of its output. If the output is not of good quality, the user is likely to reject the system. Therefore, an effective output design is the major criteria for deciding the overall quality of the system.

Some of the output design objectives are

- Designing output to serve the intended purpose.
- Designing output to fit the user.
- Delivering the appropriate quantity of output.
- Making sure the output is where it is needed.
- Providing the output on time.

- Choosing the right output method.

Output Form



DENNIS STORES
1987/1 Trichy Main Road,
Central Studio Bus Stop,
OPP: Lipalayam Dr, Singanailur,
TAMILNADU-641 005.
Email ID:dennismarketrop@gmail.com
7401787401 : 7401787401 9422-4641050, 48:
33AEYED7633J123

CARD BILL
Bill : RP-111047 Date : 17-07-2023
User : DIANA Time : 11:46 AM

Cash In Hand
To : CASH A/C

Item Name	MRP	Dis %	Rate	Qty	Amt
R PALAPALAM	0.00		199.00	0.65	129.35

of Items : 1 Total : 129.35
of Qty : 0.65
Today Savings : 0.35
TOTAL : 129.00**

Fig. 2: Item Entry Screen

This fig 2 describes the number of items and total amount calculated through bill.

Conclusion

By this report and training I have attended the internship in the mentioned company which helped me to improve my skills and its functions performed in the company. I undergone the training and learnt about the ERP billing Software developed by Optech software using VB.Net and its usage. I learnt about the existing system, its features. They conclude in a nutshell thanking our institution and the company that provided me hostage teaching the skills for my improvement.

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