



ATMIYA UNIVERSITY

(Established under the Gujarat Private University Act 11, 2018)

Yogidham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

Project Report

On

“MIDWEST MACHINERY”

Under subject of

MAJOR PROJECT

B.Tech, Semester – VII

(Department of Information Technology)

Submitted by:

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Prof. Darshan Jani

(Head of the Department)

Academic Year

(2022-23)



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CANDIDATE'S DECLARATION

We hereby declare that the work presented in this project entitled “**MIDWEST MACHINERY**” submitted towards completion of project in 7th **Semester** of B. Tech. (Information Technology) is an authentic record of our original work carried out under the guidance of “**Prof.Piyush Kashiyani**”.

We have not submitted the matter embodied in this project for the award of any other degree.

Semester: 7th

Place: Atmiya University, Rajkot

Signature:

Harsh Mungalpara (190004025)

Harshil Devmurari(190004007)



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CERTIFICATE

Date:

This is to certify that the “**MIDWEST MACHINERY**” has been carried out by **Harsh Mungalpara** under my guidance in fulfillment of the subject Major Project in Information Technology (7th Semester) of Atmiya University, Rajkot during the academic year 2022-23.

Prof.Piyush Kashiyan

(Project Guide)

Prof. Darshan Jani

(Head of the Department)



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Prof. Piyush Kashiyani

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We even thank and appreciate to our colleague in developing the project and people who have willingly helped us out with their abilities.

Harsh Mungalpara (190004025)

Harshil Devmurari (190004007)

ABSTRACT

This Report describes all the requirements for the project. The purpose of this research is to provide a virtual image for the combination of both structured and unstructured information of my project “Midwest machinery”. The abstract factory pattern provides a way to encapsulate a group of individual factories that have a common theme without specifying their concrete classes.^[1] In normal usage, the client software creates a concrete implementation of the abstract factory and then uses the generic interface of the factory to create the concrete objects that are part of the theme. The client does not know (or care) which concrete objects it gets from each of these internal factories, since it uses only the generic interfaces of their products.^[1] This pattern separates the details of implementation of a set of objects from their general usage and relies on object composition, as object creation is implemented in methods exposed in the factory interface.

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CHAPTER – 1

INTRODUCTION

1.1 Purpose

Many argue that agile software development has been derived from borrowing processes and ideologies from manufacturing. In many ways, software engineering can be compared to factory work. In IT terminology, a 'software factory' refers to a software product line that can configure tools, processes and content extensively through a schema-based template.

Software factories in effect can automate the development and maintenance of different variants of a typical product. It does so by adapting, assembling, and configuring framework-based component pieces.

1.2 Scope

One of the customers that we work with delivers electrical solutions to building contractors. The contractor provides a blueprint they received from an architectural design firm that includes the electrical plan. The builder doesn't know exactly what products it needs, but it knows it needs to deliver 240 volts at 80 amps from the main feed all the way over to the far corner of the building, and it needs to adhere to all applicable electrical building codes. The manufacturer has electrical engineers in its sales department who are tasked with taking the blueprint and turning it into a Bill of Materials that satisfies these electrical specifications and is then passed on for quoting. This "take-off" process adds value far beyond simply the product components that make up that BOM. It saves the builder time and headache, as they can move on to the next area of concern knowing electrical is in good hands. The electrical manufacturer has turned to Zilliant to ensure this relationship value-add is accounted for in its project pricing.

1.3 Technology and tools

Introduction to Salesforce

Salesforce is a **Cloud-Based** software company. Salesforce focuses on Customer Relationship Management and Enterprise applications. Salesforce features include customer service, automation for marketing, tracking and analytics, and custom application development.

- **Visual force** - Views that the user sees. Can leverage HTML, Javascript, CSS, etc, along with some additional Salesforce.com specific tags. Also allows binding to/from Apex controllers. Apex - Language similar to Java written to back Visualforce controllers or do business logic. This gets compiled and saved as metadata in database tables, and then executed on demand via user input.
- **SOQL/SOSL** - Query language

-
- **Database** : SOQL.SOS
 - **UI** = Visualforce pages(similar to html) , In VF pages you can use HTML, CSS, JavaScript, JQuery
 - **Lightning pages** (In lightning we are using all web technologies along with lightning tags).

Back End Technology used in the application:

1.Sales force Backend:

- Salesforce Developers use Apex for server side Application development. Apex is an Object Oriented Programming (OOP) Language and is similar to Java.
- As a Developer, you should be aware of the Salesforce Object Query Language (SOQL) – a language or statement specifically built to search for information in Salesforce data. You can also use SOQL in connection with Apex statements and Visualforce controllers. Keep in mind, you will need to understand certain limits regarding using SOQL. For example, executing more than 100 synchronous queries of SOQL in a single operation is not allowed.
- Also, you should keep in mind that Salesforce uses Oracle to work and operate with its Database(s). While this statement may seem doubtful with the passage of time, as Salesforce Architecture is constantly changing, the statement still holds weight for Developers.
- Salesforce also uses Triggers, Web Services, and REST/SOAP API in its backend infrastructure. To conclude, the whole combination of Salesforce Backend Languages include candidates for Salesforce Developers, as well as the ones that power up the Salesforce Platform as a Service (PaaS).
- Moreover, Salesforce products include ones that run on Amazon Web Services (AWS), a Cloud Computing Platform run by Amazon. Having that clarified, building custom applications with AWS and Salesforce even further improves your business Transactions.

2. PROJECT MANAGEMENT

2.1 Project Planning:

Project Planning is concerned with identifying and measuring the activities, milestones and deliverables produced by the project. Project planning is undertaken and completed sometimes even before any development activity starts. Project planning consists of following essential activities:

- Scheduling manpower and other resources needed to develop the system.
- Staff organization and staffing plans.
- Risk identification, analysis, and accurate planning.
- Estimating some of the basic attributes of the project like cost, duration and efforts. The effectiveness of the subsequent planning activities is based on the accuracy of these estimations.
- Miscellaneous plans like quality assurance plan, configuration management plan, etc.

Project management involves planning, monitoring and control of the people, process, and the events that occurs as the software evolves from a preliminary concept to an operational implementation. Cost estimation is a relative activity that is concerned with the resources required to accomplish the project plan.

2.2 Project Scheduling:

The scheduling is the peak of a planning activity, a primary component of software project management. When combined with estimation methods and risk analysis, scheduling establishes a roadmap for project management. The characteristics of the project are used to adapt an appropriate task set for doing work.

2.3 Risk Management:

Risk management consists of a series of steps that help a software development team to understand and manage uncertain problems that may arise during the course of software development and can plague a software project.

Risks are the dangerous conditions or potential problems for the system which may damage the system functionalities to very high level which would not be acceptable at any cost. So in order to make our system stable and give its 100% performance we must have identify those risks, analyze their occurrences and effects on our system and must prevent them to occur.

2.3.1 Risk Identification:

Risk identification is a first systematic attempt to specify risks to project plan, Scheduling resources, project development. It may be carried out as a team process using brainstorming approach

Technology risk:

Unsuccessful data classification

Precious few Salesforce users have successfully classified their data. In fact, the average Org has classified a total of zero fields within Salesforce. This is a huge problem. Data classification is a foundational exercise—you must know what data exists in Salesforce before you can properly protect it.

We've found that organizations know they need Salesforce data security and most have a data classification policy, but the vast majority haven't identified—in a fine-grained, actionable manner—what data requires protection.

Major gaps between InfoSec & Salesforce teams

Line-of-business units (LOBs) drive SaaS proliferation throughout an organization and the priority is always to innovate faster, without being constrained by InfoSec or Audit. Supporting those LOBs, Salesforce teams are often finding themselves at odds with InfoSec. There is both a knowledge and language gap between the two teams: InfoSec doesn't know the nuances of Salesforce, and Salesforce teams are only speaking to control findings, instead of risks.

Because Salesforce is designed to give unprecedented visibility into customer records, it's important for internal teams to understand that Orgs will *always* contain sensitive information, and that Salesforce must be treated like any other SaaS application. As businesses continue their rush to the cloud, InfoSec and Salesforce teams need to find ways to come together and facilitate conversations about risks surrounding the people, processes, and technology that interact with the platform.

Too many privileged users in productio

General Risks:

General Risks are the risks, which are concerned with the mentality and resources.

- Lack of resources can cause great harm to efficiency and timely productivity.
- Rapidly changing requirements.
- Changes in requirements can cause a great harm to implementation, designing and schedule of developing the system.
- Insufficient planning and task identification.

2.3.2 Risk Analysis

“Risk analysis = risk assessment + risk management + risk communication.” Risk analysis is employed in its broadest sense to include:

Risk assessment:

Involves identifying sources of potential harm, assessing the likelihood that harm will occur and the consequences if harm does occur.

For this project It might be :- • System Crash.

Risk management:

Evaluates which risks identified in the risk assessment process require management and selects and implements the plans or actions that are required to ensure that those risks are controlled.

Precautions taken to make risks minimal are as under:-

- Periodical backups are taken to avoid major loss in case of system crash.

Risk communication:

Involves an interactive dialogue between stakeholders and risk assessors and risk managers which actively informs the other processes.

3. SYSTEM REQUIREMENTS STUDY

3.1 Hardware and Software Requirement

This shows minimum requirements to carry on to run this system efficiently.

3.1.1 Hardware Requirements

For the fastest and most stable experience, we recommend:

- An Octane 2.0 score of 30,000 or greater
- Network latency of 150 ms or less
- Download speed of 3 Mbps or greater
- At least 8 GB of RAM, with 3 GB available for Salesforce browser tabs

Minimum requirements are:

- An Octane 2.0 score of 20,000 or greater
- Network latency of 200 ms or less
- Download speed of 1 Mbps or greater
- At least 5 GB of RAM, with 2 GB available for Salesforce browser tabs

3.1.2 Software Requirements

Browsers

The two latest released versions of the following browsers are supported for the best experience:

- Google Chrome
- Safari
- Mozilla Firefox
- Microsoft Edge

Mobile and Desktop Operating Systems

- **Mac:** macOS 10.14 (Mojave) or later
- **Windows:** Windows 7 or later
- **IOS:** iOS 13 or later
- **Android:** Android 5.0 (Lollipop) or later

3.1.3 Client side Requirement

- **Mac:** macOS 10.14 (Mojave) or later
- **Windows:** Windows 7 or later
- **IOS:** iOS 13 or later
- **Android:** Android 5.0 (Lollipop) or later

3.2 Constraints

3.2.1 Hardware Limitations

The major hardware limitations faced by the system are as follows:

If the appropriate hardware is not there like processor, RAM, hard disks

-The problem in processing requests of client

-If appropriate storage is not there our whole database will crash due to less storage because our main requirement is large storage.

3.2.2 Reliability Requirements

Since many users can access the server simultaneously, load on the server becomes very high. Hence, the server should be of enough high configurations. There should be high back up storage and management of huge data for overall ideas, videos , images, multiple countries, multiple user profile.

The Reliability requirements are the validations used to protect the system against one or more incorrect activities. Without proper validation of the system, the failure possibilities of it grow higher so it is must to understand the proper validation of the system and must implement them. All the required validator controls spend very good role to keep the system secure from any unauthorized or incorrect information. In all these validation actions if system found one or more entries violating validation rules then user will be warned by proper error messages and the details or the record is not going to be saved until corrections are made to them.

4. SYSTEM ANALYSIS

4.1 Study Current System

Implementation is the stage where the theoretical design is turned into a working system. The most crucial stage in achieving a new successful system and in giving confidence on the new system for the users that it will work efficiently and effectively.

The system can be implemented only after thorough testing is done and if it is found to work according to the specification.

It involves careful planning, investigation of the current system and its constraints on implementation, design of methods to achieve the change over and an evaluation of change over methods a part from planning. Two major tasks of preparing the implementation are education and training of the users and testing of the system.

The more complex the system being implemented, the more involved will be the systems analysis and design effort required just for implementation.

The implementation phase comprises of several activities. The required hardware and software acquisition is carried out. The system may require some software to be developed. For this, programs are written and tested. The user then changes over to his new fully tested system and the old system is discontinued.

4.2 Problem and weakness of current system

- Inconsistency in data entry and generate errors
- System is fully dependent on skilled individuals
- Time consuming and costly to produce reports
- Entry of false information
- Duplication of data entry

4.3 Requirements of New System

4.3.1 User Requirements:

The user requirement for this system is to make the system fast, flexible, less prone to error, reduce expenses and save the time.

4.3.2 System Requirements:

- **Functional System Requirement:**

This section gives a functional requirement that applicable to the Gaming application system. In this gaming application there is no need for the log in requirements.

- **Non-Functional System Requirements:**

- i. **EFFICIENCY REQUIREMENT:**

When a game android application implemented user can play the game

- ii. **RELIABILITY REQUIREMENT:**

The system should provide a reliable environment to users. All actions should be performed without any errors.

- iii. **USABILITY REQUIREMENT:**

The android application is designed for user friendly environment and ease of use.

- iv. **IMPLEMENTATION REQUIREMENT:**

Implementation of the system using xml in front end with java as back end and it will be used for database connectivity. Responsive android designing is used for making the application compatible for any type of screen.

v. **DELIVERY REQUIREMENT:**

The whole system is expected to be delivered in four months of time with a weekly evaluation by the project guide.

4.4 Feasibility Study

The feasibility study of any system is mainly intended to study and analyze the proposed system and to decide whether the system under consideration will be viable or not after implementation. That is it determines the usability of the project after deployment. To come to result a set of query is answered keeping the efficiency of the software and its impact on the domain for which it was developed.

Technical Feasibility:

In technical feasibility, we study all technical issues regarding the proposed system. It is mainly concerned with the specifications of the equipments and the software, which successfully satisfies the end-user's requirement. The technical needs of the system may vary accordingly but include:

- ♣ The feasibility to produce outputs in a given time.
- ♣ Response time under certain conditions.
- ♣ Ability to process a certain volume of the transaction at a particular speed.
- ♣ Facility to communicate data

5. System Design

5.1 Input /output interface

- **Interface:**

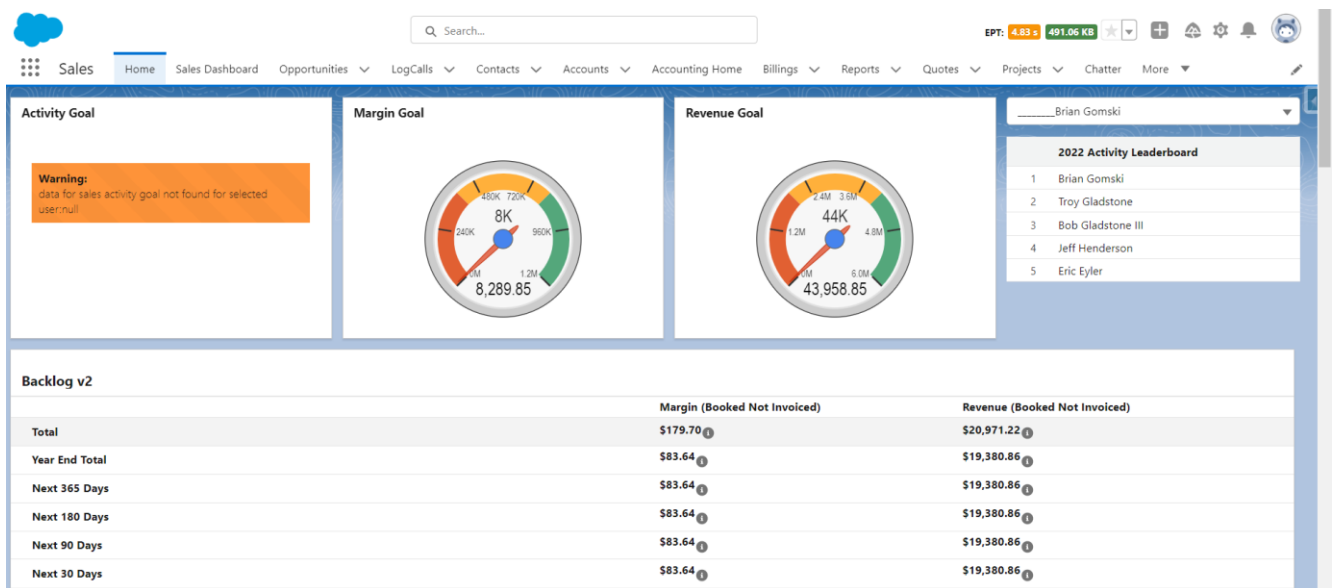


Figure 5.1.1 interface

Edit Field Mapping: Travel Approvals

Your file has been auto-mapped to existing Salesforce fields, but you can edit the mappings if you wish. Unmapped fields will not be imported.

Edit	Mapped Salesforce Object	CSV Header	Example	Example	Example
Map	Unmapped	Department	Office of Communi	Disability Determin	Division of Disability and Rehabilitative Services
Change	Destination State	Destination State	FL	OK	OK
Change	Purpose of Trip	Purpose of Trip	White-Kutch	Runolfsson, Bogisi	Homenick, Waters and Gusikowski
Change	Trip Start Date	Trip Start Date	6/14/19	10/1/19	4/3/19
Change	Trip End Date	Trip End Date	6/15/19	10/1/19	4/6/19
Change	Status	Status	Approved	Approved	Rejected

Browser tabs: New Contact | Salesforce, Contact Edit: New Contact, IS22-1266-51-2 | Account..., Account | Salesforce, Data Export, Developer Console

URL: midwest.my.salesforce.com/003/e?retURL=%2F003%2Fo

Search: Search

Switch to Lightning Experience | Nilesch Badrakiya | Setup | Help & Training | Sales

Home | Sales Dashboard | Opportunities | Visit Reports | **Contacts** | Accounts | Leads | Reports | Dashboards | Products | Sales Rep Goals | SharePoint Errors | Search Equipment Serial Numbers

Contact Edit

Save Save & New Cancel

Contacts not associated with accounts are private and cannot be viewed by other users or included in reports.

Contact Information Required Information

Salutation	--None--	Contact Owner	Nilesch Badrakiya
First Name	<input type="text"/>	Reports To	<input type="text"/>
Last Name	<input type="text"/>	Department	<input type="text"/>
Account Name	<input type="text"/>	Fax	<input type="text"/>
Title	<input type="text"/>		
Email	<input type="text"/>		
Phone	<input type="text"/>		
Extension	<input type="text"/>		
Mobile	<input type="text"/>		
Job Level 1	External Contact		
Job Level 2	--None--		
Job Level 3	--None--		
Job Level 4	--None--		
Business Website	<input type="text"/>		

Address Information

Mailing Street

34°C Good air | 15:43 07-10-2022

Project Edit

Save Cancel

PO Number Required Information

Do you have PO Number? --None--

Quote Information

Project Name	<input type="text" value="Jeff Cris"/>	Receipt of Order Date	<input type="text" value="8/8/2022"/>
Project Bid Date	08/08/2022	Est. Last Ship or Invoice Date	<input type="text" value="8/8/2022"/>

Enter your best guess when we will send out the last invoice or shipment on this project.

Save Cancel

Sandbox: Quoting

Search...

EPT: 4.5B 452.95 KB

Sales Home Sales Dashboard Opportunities LogCalls Contacts Accounts Accounting Home Billings Reports Quotes Projects Custom Approval Request More

Custom Approval Request

Related To	Payment Type	Expense type	Expense Amount	Expense Description	Log Description	Contact	Account	Opportunity
SR-00082	Company Expense	Donations	\$17.00					
SR-00041	Company Expense		\$187.00		To test for Log A Call Ext...	Al Shields, Brian Gomski	Test Billing, Murphy Co...	Test Niles12345567889...
SR-00016	Company Expense				asasda	Tawana Sides, Josh Beck		
SR-00034	Personal Expense	Fuel	\$20.00		Test of logACall ,Task , E...	Brian Gomski, Donald A...	Test Billing	Test Niles12345567889...
SR-00083	Company Expense	Donations	\$120.00			Brian Gomski	SPX Heat Transfer	Test Niles12345567889...
SR-00083	Personal Expense	Entertainment w/ Custo...	\$60.00					Massac County HS
SR-00038	Company Expense	Travel - Airfare	\$200.00					Test Niles12345567889...
SR-00044	Personal Expense	Donations	\$10.00			Brian Gomski	Murphy Company	Test Niles12345567889...
SR-00045	Personal Expense	Donations	\$256.00			Brian Gomski		Test Niles12345567889...
SR-00047	Personal Expense	Entertainment w/Emplo...	\$256.00			Brian Gomski	Murphy Company	Test Niles12345567889...
SR-00063	Personal Expense		\$0.00					
SR-00043	Company Expense	Entertainment w/ Custo...	\$1,000.00	golf		Brian Flory	Lippert Mechanical	
SR-00063	Company Expense		-\$523.00					
SR-00076	Company Expense							Mike..
SR-00079	Company Expense	Meals w/customers	\$45.00	boubon street steak wit...	Al has 10 jobs for us	Al Shields	Murphy Company	
SR-00080	Company Expense				Al has 10 jobs for us	Al Shields	Murphy Company	
SR-00081	Company Expense	Parking	\$130.00		log Test	Brian Gomski, Al Shields	Midwest Machinery KC ...	
SR-00040	Personal Expense	Donations	\$751.00		I am form contact	Mason Patel	Midwest Machinery KC ...	

31°C Partly sunny 18:42 29-09-2022

Salesman Backlog

	Margin (Booked Not Invoiced)	Revenue (Booked Not Invoiced)
Total	\$123	\$123
Year End Total	\$123	\$123
Next 360 Days	\$123	\$123
Next 180 Days	\$123	\$123
Next 90 Days	\$123	\$123
Next 30 Days	\$123	\$123

6. Code Implementation

6.1 Implementation Environment

Challenges identified for successful design and implementation of this project are dominated by:

- Complexity, reliability/availability, transparent data access. The project was a result of a group consensus. The team was having two members. The team was guided by project manager. The team structure depends on the management style of the organization, the no. of people in the team, their skill levels and the problem difficulty.

6.2 Program/Module Specification

- System GUI must be as simple and user friendly as anyone can use it. At front side we implemented Player Name Page to access the game.
- A Session is maintained throughout the system when a particular user enters their names into the system.

6.3 Coding Standards

- Normally, good software development organization requires their programmers to maintain some well-defined and standard style of coding called coding standard.

6.3.1 Comment Standards:

- The comment should describe what is happening, how it is being done, what parameters mean, which global are used and which are modified, and any registration or bugs.

The standards I have followed are:

- Comment may also be used to explain individual sections or lines of codes to easily get access and easily review or manage the classes or properties for the pages.
- Inline comments should be made with the //. Comment style and should be indented at the same level as the code described.
- For multiple line comments we write between /* */.

7. Testing

7.1 Testing Strategy

A strategy for software testing integrates software test case design method into a well-planned series of steps that result in the successful construction of the software. The strategy provides the roadmap that describes the steps to be conducted as a part of testing, then these steps are planned and then undertaken, and how much effort, time and resource will be required.

7.2 Testing Method

7.2.1 Unit Testing

The unit testing is meant for testing smallest unit of software. There are two approaches namely bottom-up and top-down. In bottom up approach the last module is tested and then moving towards the first module while top down approach reverses the action. In present work we opt for the first one. The bottom up approach for the current project is carried out as shown in.

7.2.2 Validation Testing

After the integration testing software is completely assembled as a package, interfacing error have been uncovered and corrected, and then validation testing may begin. Validation can be defined in many ways but a simple definition is what a validation succeeds when software functions in a manner that can be reasonably accepted by the user.

7.2.3 Integration Testing

The integration testing is meant to test all the modules simultaneously because it is possible that all the modules may function correctly when tested individually. But they may not work altogether and may lead to unexpected outcome.

8. Limitations and Future Enhancement

8.1 Limitations:

Though I tried my best in developing this system but as limitations are mere parts of any System so are of my system. Some limitations of game application system are as under:

- Low storage capacity.

8.2 Future Enhancement:

There is always a scope for enhancements in any developed system, especially when our nature of the project is iterative waterfall which allows us to rethink on the method of development to adopt changes in the project. Below mentioned are some of the changes possible in the future to increase the adaptability, and efficiency of the system.

- More attractive GUI (Graphical user interface).
- Communication options like chat.
- Online payment options for game coins.

9. Conclusion

The challenge western manufacturing industry faces from offshore competition is immense. In several countries whole industries have been eliminated. Manufacturing management must therefore change considerably in order to meet these new challenges and to ensure future viability. Many experts are convinced that manufacturing management approaches will change more over the next 10 years than they have over the last 100 years. Central to this change is the application of Just In Time systems. As has been stated throughout this book, a successful JIT implementation may provide significant benefits for the operation of the whole company. There have now been a sufficient number of JIT implementations to demonstrate that JIT, when successfully implemented, will:

- reduce inventory levels, probably by about 50 per cent
- improve quality levels
- reduce scrap and rework rates
- reduce manufacturing lead times probably by 50-75 per cent
- improve customer service levels
- improve employee morale

These benefits are, of course, dependent on a successful implementation. Almost all JIT implementations will lead to some improvements, but the major benefits of JIT will probably only come about if the implementation is carried out in an informed and professional manner.

10. Reference

Websites:

- <https://trailhead.salesforce.com/today>
- <https://nsforce.in/>

Books:

- Java: A beginners Guide
- Software Engineering by Roger Pressman