GOVERNMENT POLYTECHNIC, JALGAON

PROJECT REPORT
ON
INDUSTRIAL TRAINING COMMITTED
AT
SUMAGO INFOTECH PVT. LTD, NASHIK

INDUSTRIAL REPORT 2023

📘 _COLLEGE

📍 **Government Polyechnic, Jalgaon**
- Principal : Dr. P. N. Patil
- Dept : Computer Engineering Dept
- HOD : Dr. P. P. Chaudhari

🏷️ _COMPANY

Sumago Infotech Pvt. Ltd.

Sumago Infotech aims to reach out to the common people across the globe and making Information Technology a tool for the **MASS** along with the tool for the **CLASS**. Creating innovative IT solutions and provide IT-enabled services to delight customers worldwide and build Relationships based on Trust, Values and Professionalism. We **Strive with Technology** to provide the most effective and affordable service that fulfills our customer needs and budget.

Services Provided

@ Website Development
@ Mobile App Development
@ Software Development
@ Social Media Marketing

Mentor :
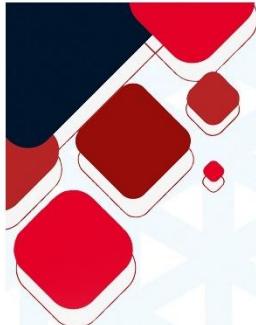
Prof. Amol Chaudhari Sir

Report By :

Kandarp Patil

Roll no : 62

CERTIFICATE

Sumago Center Of Practical Excellence

SCOPE

Igniting Minds Enhancing Skills...!

CERTIFICATE OF COMPLETION

IS PROUDLY PRESENTED TO

Kandarp Patil

For Successful Completion of Six Weeks

Industrial Training

Date: 7th June to 22nd July 2023

Mrs. Dipti Pawar
Business Analyst

Mr. Amol Pawar
L &D Head
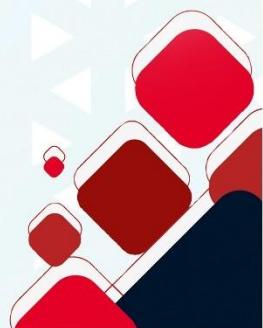
Mrs. Sonali Gorade
CEO

Sumago Infotech Pvt. Ltd.
Strive With Technology...!

Certificate No.: SIPL 2023 | 131

ACHIEVEMENTS

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

GOVERNMENT POLYTECHNIC, JALGAON
(0018/1567)

Program Name and Code : Computer Engineering (CO)

Course Name and Code : Industrial Training

Academic Year : 2023-24

Semester : Fifth

A Report On Implant Training

Duration : Six weeks (07/06/2023 – 22/07/2023)

Name of Industry : **Sumago Infotech Pvt. Ltd, Nashik**

Submitted By :

Sr. No.	Roll No.	Name of student	Enrollment No.	Seat No.
1	62	Kandarp Subhash Patil	2100180274	

Under the guidance of
Prof. Amol Chaudhari Sir
(Lecturer in Computer Department)

Department of Computer Engineering

Government Polytechnic, Jalgaon - 425001

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

CERTIFICATE

This is to certify that **Kandarp Subhash Patil** have successfully and satisfactorily completed the report on **Sumago Infotech Pvt. Ltd, Nashik** and presented their report in the partial fulfilment of requirement for Diploma in Computer Engineering from Government Polytechnic, Mumbai under the guidance of **Prof. Amol Chaudhari Sir** in the academic year 2023- 2024

Place : **Jalgaon**   Enrollment No : **2100180274**

Date : ……../…..…/……   Exam. Seat No : ……………

_____   _____

   Faculty Mentor   **External Examiner**

_____   _____

Head of Department   **Principal**

Seal of
institution

Government Polytehcnic Jalgaon

SUBMISSION

I **KANDARP SUBHASH PATIL**, Roll no. **62** as a student of 5 Sem/Year of the Programmer Information Technology humbly submit that I have completed from time to time the Practical/Micro-Project work as described in this report by my own skills and study between the period from 2023 and 2024 as per instructions/guidance of Ashwini Lokhande Mam.

And that following students were associated with me for this work, however, quantum of my contribution has been approved by the Lecturer.

And that I have not copied the report on its any appreciable part from any other literature in contravention of the academic ethics.

Date: /   /   **Signature of Student**

Evaluation Sheet for the Industrial Training

Academic Year: 2023-24   **Name of the Mentor :** <u>Prof. Amol Chaudhari Sir</u>

Course: CO   **Semester:** V

Training in : <u>**Full Stack Development in Java**</u>

COs addressed by Micro Project:

A. Write the problem/task specification in existing system related to the occupation

B. Logically choose relevant possible solution.

C. Consider the ethical issues related to the project.

……………………………………………………………………………………

Roll No	Student Name	Marks out of 6 for performance in group activity (D5 Col.8)	Marks out of 4 for performance in oral/ presentation (D5 Col.9)	Total out of 10
62	Kandarp Subhash Patil			

(Signature of Faculty)

PREFACE

In this internship report I will describe my experiences during my internship period. The internship report contains an overview of the internship company and the activities, tasks and projects that I have worked on during my internship. Writing this report, I also will describe and reflect my learning objects and personal goals that I have set during my internship period. In compiling this report I have intended to provide a synthesis of theoretical approaches and methods of implementing them in the world of business. I have tried to discover the relationship between theoretical and practical type of knowledge. I have tried to bridge the gap between theoretical assumption sand practical necessities.

During the entire course of our academic study, we remain engaged in theoretical learning where the primary objective is academic success. A concise knowledge of the modern business arena can only be attained through the pragmatic implementation of hypothetical ideas, which we learn from our academic activities. With these objectives, I have made all possible efforts and the necessary investigations to submit this report in an enlightened for min a very short time. I have tried my level best to eliminate errors from the report.

As I had to complete my internship within a short period of time so the study admits its limitations. The report first shall give an overview of the company in which we have worked, tasks completed during the period of internship with technical details. Then the results obtained shall be discussed and analyzed. I have tried my best to keep report simple yet technically correct. I hope I succeed in my attempt.

ACKNOWLEDGEMENT

The satisfaction that companies that the successful completion of any task would be incomplete without the mention of people whose ceaseless co-operation made it possible, whose constant guidance and encouragement crown all efforts with success.

First, I would like to thank **Sumago Infotech Pvt. Ltd, Nashik** for giving me the opportunity to do an internship with the organization. I also would like to thank all the people that worked along with me at **Sumago Infotech Pvt. Ltd, Nashik** with their patience and openness they created an enjoyable working environment.

It is indeed with a great sense of pleasure and immense sense of gratitude that I acknowledge the help of these individuals.

I would like to thank our Principal, **Dr. P. M. Patil Sir** for creating the required academic environment which made our task appreciable.

I would like to thank my Head of the Department **Prof. P. P. Chaudhari Sir** for his helping nature and Constant Motivation throughout my training period.

I would like to thank **Prof. Amol Chaudhari Sir**, Faculty Mentor for In-Plant Training for their support and advices to get and complete internship in above said organization.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this In-Plant Training.

TABLE OF CONTENTS

TITLE	CONTENTS
Weekly Diary	The work done by the students every day in a week. And tasks performed in a week.
Chapter I Introduction of the Industry	Location, Turn over, Man power, Technical, Non-technical Skilled personnel, marketing strategies software services and products.
Chapter II Organizational structure	Hierarchy, communication system and Categories of communication between personnel and department, Learning experience, work culture, company approach.
Chapter III Learning materials collected	Photographs, charts, diagrams, pictures, Specifications, research papers
Chapter IV Report on In-Plant Training	Detailed report on the specialized work, task, project, assignments, etc. undertaken during In Plant training.
Chapter V Conclusion	Overall learning outcome inform of gain in the area of Technical knowledge, behavioral changes, personal gains, etc. from In Plant training.
References	The references include websites, videos, tutorials etc.

ABSTRACT

Industrial training is an important phase of a student life. A well planned, properly executed and evaluated industrial training helps a lot in developing a professional attitude. It develop an awareness of industrial approach to problem solving, based on a broad understanding of process and mode of operation of organization. The aim and motivation of this industrial training is to receive discipline, skills, teamwork and technical knowledge through a proper training environment, which will help me, as a student in the field of Information Technology, to develop a responsiveness of the self-disciplinary nature of in computer engineering field.
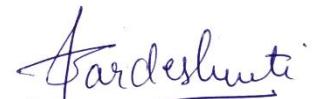
In my internship period at **Sumago Infotech Pvt. Ltd, Nashik** as a **Full Stack Development** Intern, I learnt and explored many things. I learnt the entire **ADVANCE JAVA, JDBC, Working with Databases like MySQL, Basics of HTML, CSS**, **BOOTSTRAP** etc. It was an amazing experience to work in that company where the work culture and all the people were co- operative and supportive and very helpful.

WEEKLY DAIRY

WEEK 1 :

Day	Date	Description/Activities
Day 1	07/6/2023	Introduction to the Company, Welcome Kit Distribution
Day 2	08/6/2023	Features of Java, Installation of JDK and Eclipse Compiler
Day 3	09/6/2023	First Java Program and Shopkeeper Management System - mini project
Day 4	10/6/2023	**FUN ACTIVITY**

*

WEEK 2 :

Day	Date	Description/Activities
Day 1	12/6/2023	Loops and Features of OOP
Day 2	13/6/2023	Introduction to classes & objects, constructors, and Inheritance

Day 3	14/6/2023	Polymorphism and Exception Handling
Day 4	15/6/2023	Introduction to Advance Java, GUI, JAVA AWT Components, Containers, Steps to create frame
Day 5	16/6/2023	Layout Managers (Border Layout, Flow Layout, Grid Layout, Card Layout, Box Layout)
Day 6	17/6/2023	**FUN ACTIVITY**
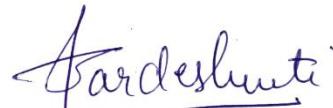
WEEK 3 :

Day 1	19/6/2023	Event Handling and Java ActionListener interface
Day 2	20/6/2023	MouseListener, KeyListener
Day 3	21/6/2023	Introduction to SWING, Methods, JFrame, JPassword, JRadioButton, JComboBox
Day 4	22/06/2023	JTable, Jlist, JOptionPane, JMenuBar, JMenu, JMenuItem
Day 5	23/06/2023	Java Progress bar, Java Pop-up menu, Java Graphics chooser, Java JTabbedPane, Java JEditorPane
Day 6	24/06/2023	**EXPERT TALK & FUN ACTIVITY**
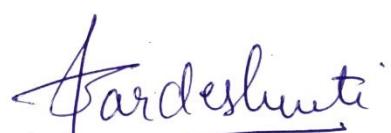
WEEK 4 :

Day 1	26/06/2023	Tasks Performing
Day 2	27/06/2023	Introduction to JDBC, JDBC driver, Crud operations, Steps to connect to the database
Day 3	28/06/2023	Inserting into database through Java
Day 4	29/06/2023	Updating the database through Java
Day 5	30/06/2023	Deleting and Selecting the database through Java
Day 6	01/07/2023	**FUN ACTIVITY**
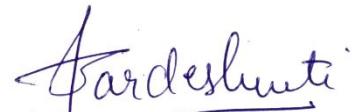
WEEK 5 :

Day 1	03/07/2023	Introduction to HTML, Paragraph tag, Headings in HTML, Attributes, etc
Day 2	04/07/2023	Marque tag, Text Formatting, Images, Lists, Tables
Day 3	05/07/2023	CSS, Adding CSS, Properties of CSS
Day 4	06/07/2023	Introduction to Bootstrap CSS
Day 5	07/07/2023	Introduction to TAS (JAVA APPLICATION SERVER)
Day 6	08/07/2023	**EXPERT TALK & FUN ACTIVITY**

WEEK 6 :

Day 1	10/07/2023	Introduction to DOM (DOCUMENT OBJECT MODEL)
Day 2	11/07/2023	Introduction to Servlet & installation of Tomcat
Day 3	12/07/2023	Website – Type of Websites
Day 4	13/07/2023	Servlet Container
Day 5	14/07/2023	Request Dispatcher
Day 6	15/07/2023	**FUN ACTIVITY**
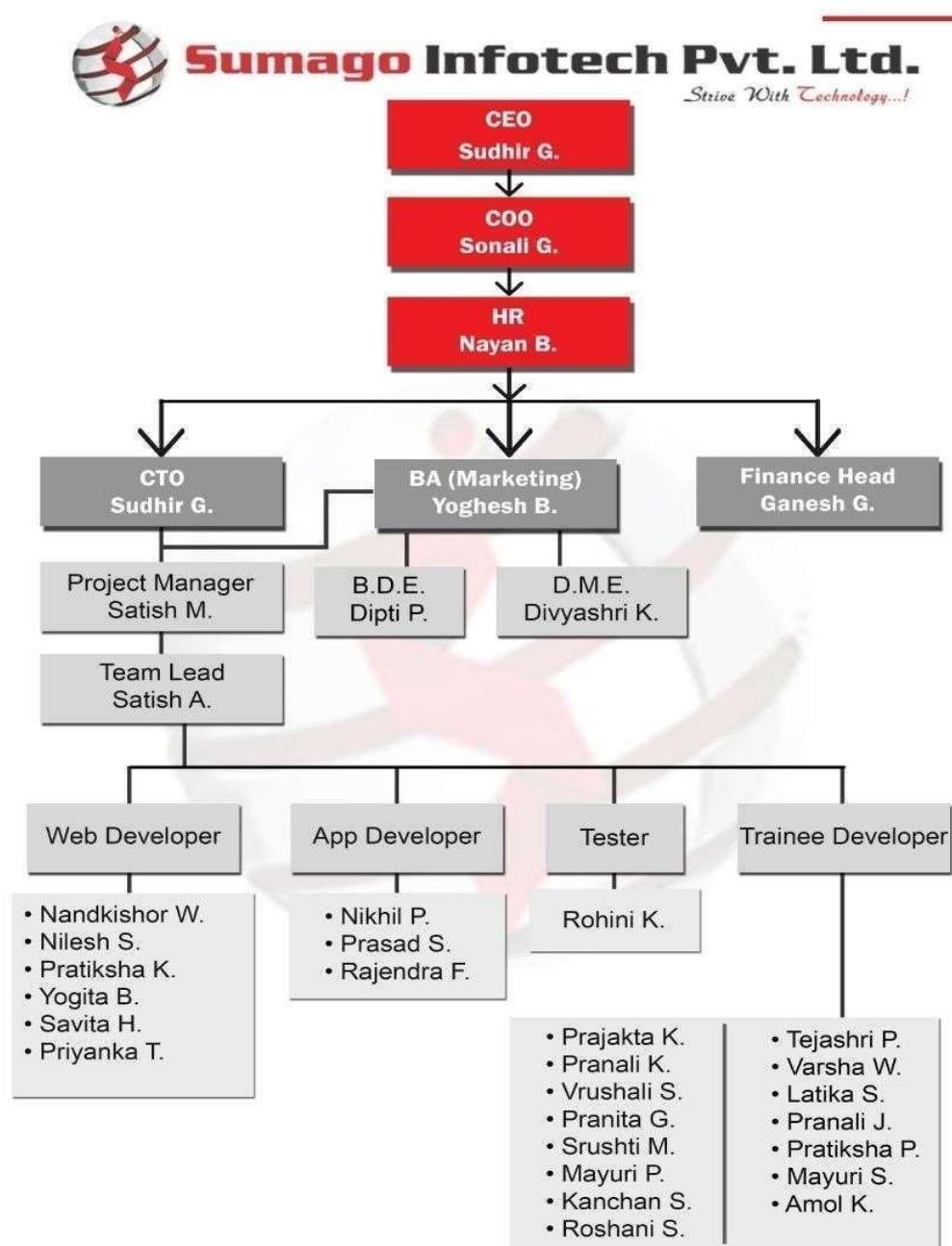
LAST WEEK :

Day 1	17/07/2023	SendRedirect method explanation and example
Day 2	18/07/2023	CRUD operations
Day 3	19/07/2023	**EXPERT TALK**
Day 4	20/07/2023	SUBMISSION OF THE ENTIRE TRAINING WORK
Day 5	21/07/2023	Rehersal of the Validictory Function
Day 6	22/07/2023	*VALIDICTORY FUNCTION*

Chapter 1 : <u>Organizational Structure of Sumago Infotech and General Layout</u>

Sumago Infotech Pvt. Ltd.
Strive With Technology...!

CEO
Sudhir G.

COO
Sonali G.

HR
Nayan B.

CTO
Sudhir G.

BA (Marketing)
Yoghesh B.

Finance Head
Ganesh G.

Project Manager
Satish M.

B.D.E.
Dipti P.

D.M.E.
Divyashri K.

Team Lead
Satish A.

Web Developer

App Developer

Tester

Trainee Developer

- Nandkishor W.
- Nilesh S.
- Pratiksha K.
- Yogita B.
- Savita H.
- Priyanka T.

- Nikhil P.
- Prasad S.
- Rajendra F.

Rohini K.

- Prajakta K.
- Pranali K.
- Vrushali S.
- Pranita G.
- Srushti M.
- Mayuri P.
- Kanchan S.
- Roshani S.

- Tejashri P.
- Varsha W.
- Latika S.
- Pranali J.
- Pratiksha P.
- Mayuri S.
- Amol K.

Organization Structure

Chapter 2 : Introduction of Sumago Infotech, Types of Product and Services , History, Number of Employees.

Sumago Infotech is a company established in Oct 2013. It has industry-specific software expertise in technology, healthcare, financial, media, manufacturing and many other sectors. This company specializes in offering Web Designing, Web Application Development, Mobile App Development, Software Development, Digital Marketing, Software Testing, Quality Assurance Services and much more.

Sumago Infotech aspire to be the global sourcing choice of the world market and revolutionizes the way service processes function. To reach out to the common people across the globe and making Information Technology a tool for the "MASS" along with the tool for the "CLASS". Creating innovative IT solutions and provide ITenabled services to delight customers worldwide and build relationship based on Trust, Values and Professionalism.

We are a team of committed innovative, client-sensitive and experienced software professionals who always strive to deliver customized, cost- effective and long- term software solutions that complement our client's objective and result in a satisfied customer.

At Sumago Infotech, we "Strive with Technology" to provide the most effective and affordable service that fulfills our customer needs and budget. We provide customized websites and software solutions that suit customer's company objectives. We always keep involving our customers in an entire process starting from design through deployment, so that your ideas can be incorporate into our work.

After deploying website or software we keep working with you to provide continuous support. We also help to promote your businesses by our digital marketing services. Our focus is always on giving a quality product to a customer for which we design attractive websites, by combining creative strategies with innovative technology.

Services provided by Sumago Infotech :

A. WEBSITE DEVELOPMENT

Sumago Infotech is a web design studio that offers corporate web design and custom web design. Our website designers offer cheap website design that is user-friendly at the same time easily customizable.

Our experience and expertise in the field of websites designing and development make us far more superior. We can make your website rich with designs and can also provide it with a perfect search engine ranking. Our website designers offer our clients with custom web design services that are cheap and affordable.

We create and design sites above your imaginations. Our services are unique and distinct from other web designing companies. Our web design solutions include Complete Site Design from Scratch, Redesign of your existing website, Error correction in your website, New Sections in your current website, Complete revamp of your present website with old/new content and Daily site content maintenance.

B. MOBILE APP DEVELOPMENT

Android is the Latest technology. Most Companies Prefer using Android development because it is cheap and efficient with respect to speed and execution. Many Mobile Apps are developed in android because it provides a wide range of functionality, Software on Android application is used widely because it is available on every mobile, iPad and tablets. Android application is developed in cheap charges due to free availability with respect to other tools.

C. SOFTWARE DEVELOPMENT

We at Sumago Infotech, provide a full range of software development services, covering the entire product lifecycle from needs analysis and system architecture, through design, development, and quality assurance, up to and including long-term maintenance.

Sumago Infotech is an established name in the field of Software Development. Sumago Infotech comprises of a team of seasoned software professionals dedicated to providing a reliable and cost-

effective end product. Our Application Development model is a result of various innovations and

enhancements, and is engineered to deliver a product that not only fulfils client's requirements, but also adheres to global standards of software engineering.

D. WEB HOSTING

Web hosting is a service that allows organizations and individuals to post a website or web page onto the Internet. A web host, or web hosting service provider, is a business that provides the technologies and services needed for the website or webpage to be viewed in the Internet. Websites are hosted, or stored, on special computers called servers. When Internet users want to view your website, all they need to do is type your website address or domain into their browser. Their computer will then connect to your server and your webpages will be delivered to them through the browser.

E. SOCIAL MEDIA MARKETING

Social media is the collective of online communications channels dedicated to community-based input, interaction, content-sharing and collaboration. Websites and applications dedicated to forums, microblogging, social networking, social bookmarking, social duration, and wikis are among the different types of social media.

Creative and Interaction design
- Brand Identity
- web UI/UX
- Graphic Design
- Marketing Collaterals

Product Development
- Product that tells your story and meets your goals.
- We can build Responsive and Mobile Websites
- Mobile Apps
- SocialMedia Apps
- Web Services and Apps

Digital Marketing
- Relevant optimized and precise communications.
- We can help you with: Search Engine Optimization Search Engine
- Marketing Contextual Display Advertising
- In-app Mobile Marketing

Products of Sumago Infotech
- Online Examination System
- ERP

- Magic Bricks Application
- Food Delivery Application
- Online Service Provider Application
- Home Automation System
- E-commerce Application

Chapter - 3
Types of major Equipment Instruments/Machines/Computer Systems/Software Used in Industry with their specification, approximate cost and specific use and their routine maintenance.

Computer Systems:
Count: 40
Configuration:
- Processor: Intel i5
- Memory: 4GB
- HD: 240GB
- OS: Windows

Software: Editors :
- VS Code
- Eclipse

Server :
- Tomcat server

Technology listing
- Html
- CSS
- Bootstrap
- MySql

Chapter 4 : Manufacturing And Development Process along with production /software development planning and control / implementation method.

Software Development Process
Communication
This is the first step where the user initiates the request for a desired software product. He

contacts the service provider and tries to negotiate the terms. He submits his request to the service providing organization in written format.

Planning

The team comes up with a rough plan of software process. At this step the team analyzes if a software can be made to fulfill all requirements of the user and if there is any possibility of software being no more useful. It is found out, if the project is financially, practically and technologically feasible for the organization to take up. There are many algorithms available, which help the developers to conclude the feasibility of a software project.

Designing

Next step is to bring down whole knowledge of requirements and analysis on the desk and design the software product. The inputs from users and information gathered in requirement gathering phase are the inputs of this step. The output of this step comes in the form of two designs; logical design and physical design. Engineers produce meta-data and data dictionaries, logical diagrams, data- flow diagrams and in some cases pseudo codes.

Coding

This step is also known as programming phase. The implementation of software design starts in terms of writing program code in the suitable programming language and developing error-free executable programs efficiently

Chapter 5 :
Testing of System Configuration, Network And necessary Tools for S/W development and complete software along with quality assurance procedure

Testing

An estimate saysthat 50% of whole software development processshould be tested. Errors may ruin the software from critical level to its own removal. Softwaretesting is done while coding by the developers and thorough testing is conducted bytesting experts at various levels of code such as module testing, program testing, product testing, in-house testing and testing the product at user's end. Early discovery of errors and their remedy is the key to reliable software.

Tools used for Software Testing

- **Manual Testing**

Manual testing is the process of using the functions and features of an application as an end user would in order to verify the software is working as required. With manual testing, a tester manually conducts tests on the software by followinga set of pre-defined test cases. In order to

successfully conduct manual tests, you first need to understand the requirements of the software.. This is a crucial part of manual testing as the main goal is to make sure the software is bug free

- **Selenium**

Selenium is a portable framework for testing web applications. Selenium provides a playback (formerly also recording) tool for authoring functional tests without the need to learn a test scripting language (Selenium IDE). It also provides a test domainspecific language to write tests in a number of popular programming languages, including C#, Groovy, Java, Perl, PHP, Python, Ruby and Scala. The tests can then run against most modern web browsers. Selenium deploys on Windows, Linux, and macOS platforms.

Chapter 6 :
Deployment Strategy Used by industry, Documentation Methods and end user Support.

Deployment
The objective of deployment phase is to make the developed software operational in a live environment. A deployment in the operational environment comes only after the product is fully tested and accepted by the business in the acceptance stage of the testing phase. Here we may need to provide training to the real time users and post-deployment review is done in this phase.

Maintenance & Support
This phase confirms the software operation in terms of more efficiency and less errors. If required, the users are trained on, or aided with the documentation on how to operate the software and how to keep the software operational. The software is maintained timely by updating the code according to the changes taking place in user end environment or technology. This phase may face challenges from hidden bugs and real-world unidentified problems.

Feedback
We provide customized websites and software solutions that suit customer's company objectives. We always keep involving our customers in an entire process starting from design through deployment, so that your ideas can be incorporated into our work. After deploying website or software we keep working with you to provide continuous support. We also help to promote your businesses by our digital marketing services. Our focus is always on giving a quality product to a customer for which we design attractive websites, by combining creative strategies with innovative technology

Chapter 7 :
Safety Procedure followed and safety gear used (Preventive Measures – s/w development process)

- Failure modes, including hardware, software, human and system are addressed in the design of the software.
- Sound software engineering practices and documentation are used in the development of the software.
- Software is designed for human machine interface, ease of maintenance and modification or enhancement.
- Software with safety-critical functionality must be thoroughly verified with objective analysis

Chapter 8 :
Particulars of Practical Experiences in Industry / Organization is any in production /Assembly /Testing / maintenance.

- We learned how to work in a team on a large Project.
- Learned different tools and Software's which are used by company to develop applications.
- We learned how to take requirement from client and prepare SRS.
- Learned how to design project flow from client requirements.
- We learned how to develop Static Websites as per client requirements.
- We studied entire process of software development life cycle.
- We went through different products developed by company and understood features of that product.
- We learned the concept of Domain Registration and Web Hosting
- We saw live demonstration of server Configuration.
- We studied all services provided by Sumago Infotech.

Chapter 9 :
Short report/description of the project :

Technologies Used During Training –

The project asked for learning Front End Technologies for designing & development, Middleware for core development, Back End & Database technology for retrieval and storage of data.

The main question was:
- Why are we using the specific technology?
- Can a specific technology achieve the goals and objectives of the project?
- Difficulty level of understanding?
- Is the technology feasible technically, economically and performance wise?

The project has three layers in design and development

a. **FrontEnd**

b. **MiddleWare**

c. **Backend / Database**

1) **Front End Technologies** –

a) **HTML :**

- HTML (Hypertext Markup Language) is the set of markup symbols or codes inserted in a file intended for display on a World Wide Web browser page. The Markup tells the Web browser how to display a Web page's words and images for the user.
- HTML plays a couple of significant roles in a web page. First, we use the structure created by our HTML code to reference, enhance, and manipulate elements on a web page using CSS and JavaScript.

b) **CSS :**

- CSS is the language for describing the presentation of Web pages, including colors, layout,

and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers.

☐ CSS or Cascading Style Sheet plays an important role in web design. Style Sheet is a reference

to the document itself but it is the term cascading that gives CSS its unique quality. CSS is concerned with elements of presentation such as layout, font and color.

2) **MiddleWare Technologies-**

❖ *JAVA :*

▪ Java is a **programming language** and a **platform**. Java is a high level, robust, object-oriented and secure programming language.

▪ Java was developed by *Sun Microsystems* (which is now the subsidiary of Oracle) in the year 1995. *James Gosling* is known as the father of Java. Before Java, its name was *Oak*. Since Oak was already a registered company, so James Gosling and his team changed the name from Oak to Java.

❖ Application :

• According to Sun, 3 billion devices run Java. There are many devices where Java is currently used. Some of them are as follows:

• Desktop Applications such as acrobat reader, media player, antivirus, etc.

• Web Applications such as irctc.co.in, javatpoint.com, etc.

• Enterprise Applications such as banking applications.

• Mobile

• Embedded System

• Smart Card

• Robotics,etc.

➤ **JSP (Java Server Page)-**

• **JSP** technology is used to create web application just like Servlet technology. It can be thought of as an extension to Servlet because it provides more functionality than servlet such as expression language, JSTL, etc.

- A JSP page consists of HTML tags and JSP tags. The JSP pages are easier to maintain than Servlet because we can separate designing and development. It provides some additional features such as Expression Language, Custom Tags, etc.

3) **Backend/ Database-**

a) **MySql :**

- A database is a separate application that stores a collection of data. Each database has one or more distinct APIs for creating, accessing, managing, searching and replicating the data it holds.

- MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is developed, marketed and supported by MySQL AB, which is a Swedish company. MySQL is becoming so popular because of many good reasons −

  - MySQL is released under an open-source license. So you have nothing to pay to use it.
  - MySQL is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages.
  - MySQL uses a standard form of the well-known SQL data language.
  - MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.
  - MySQL is an open-source relational database management system.

Description of the project :

PROJECT ON

CANTEEN MANAGEMENT SYSTEM
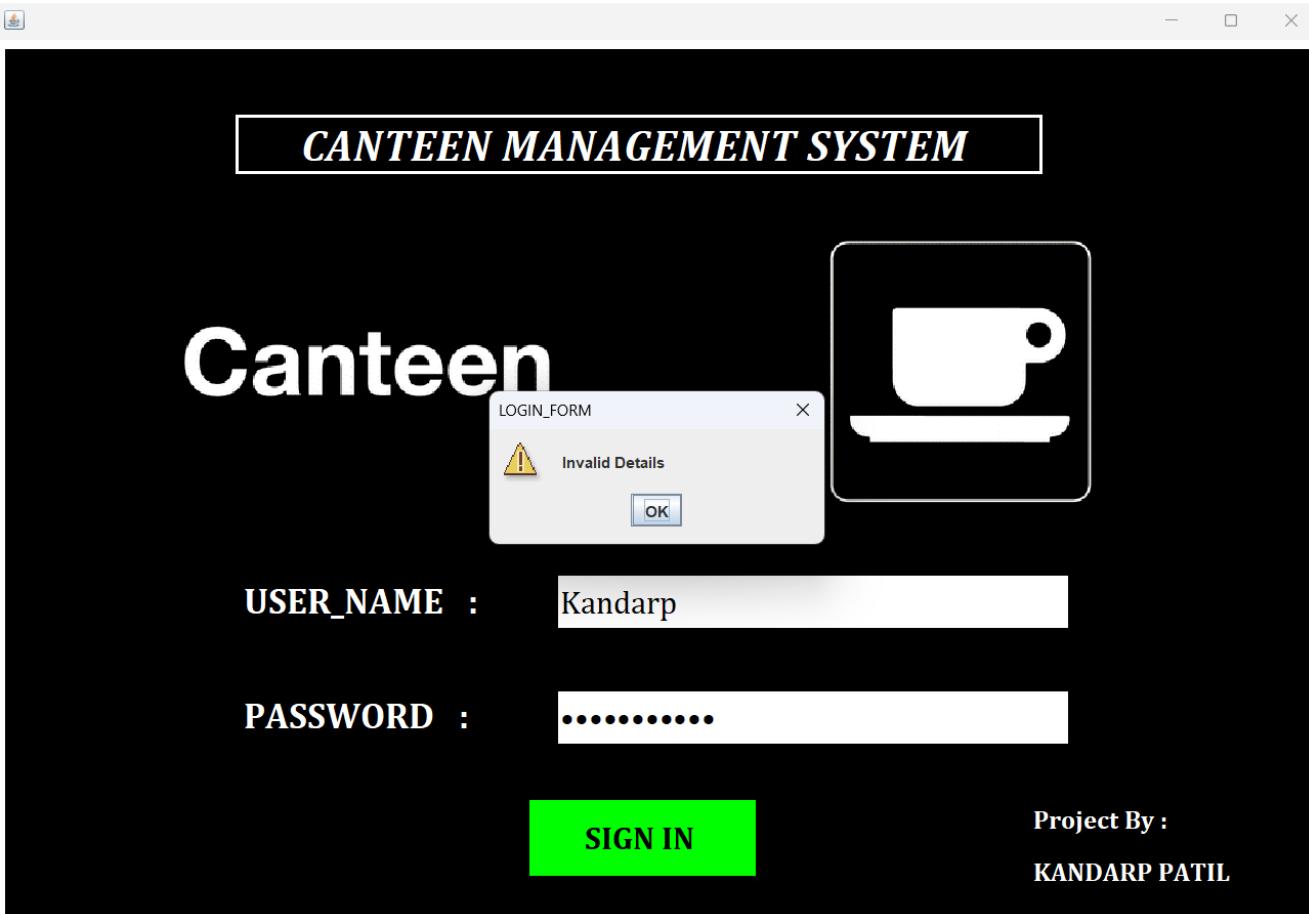
The name of the project is **CANTEEN MANAGEMENT SYSTEM**. This project was allocated to me by our training company **Sumago Infotech Pvt. Ltd, Nashik**
The project perspective to manage all the canteen related activities.
It mainly focuses on managing the canteen data and performing various operations onto that data.

LOGIN :
The project starts with a login page, where we need to input the username and password of the canteen authority. The input of the username and the password is checked and verified with the actual username and the password of the canteen.
If the username and the password is found to be correct then we get login into the canteen management system software and whereas if the input is found to be incorrect or incomplete then a message is popped as **INVALID DETAILS** or **PLEASE FILL THE REQUIRED DETAILS** respectively

CANTEEN MANAGEMENT SYSTEM

Canteen

LOGIN_FORM

⚠ Invalid Details

OK

USER_NAME : Kandarp

PASSWORD : ••••••••••

SIGN IN

Project By :

KANDARP PATIL

CANTEEN MANAGEMENT SYSTEM

Canteen

Message

ⓘ Please fill the required Details

OK

USER_NAME : Kandarp

PASSWORD :

SIGN IN

Project By :

KANDARP PATIL
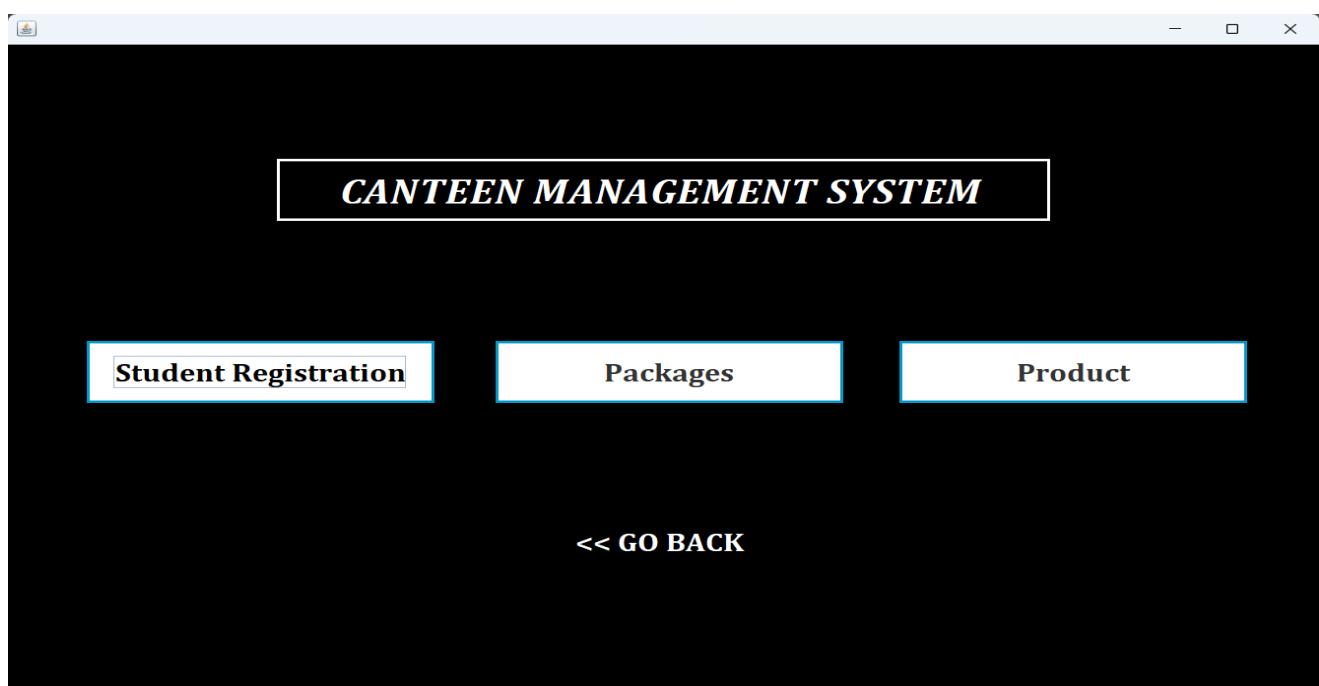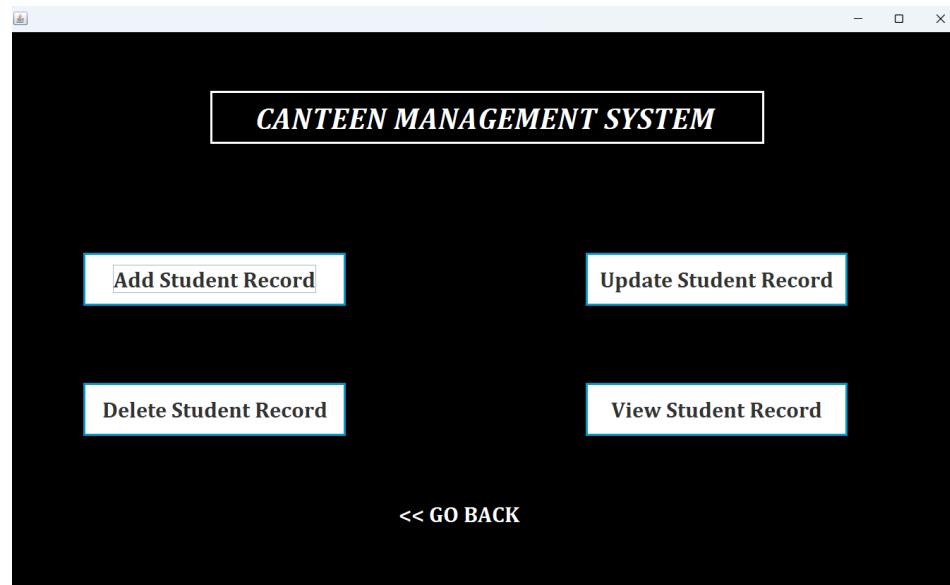
MODULE SELECTION :

Once we are logged in, we are provided with 3 options for selection of the module (Student Registration, Packages, Product)

Each specification selection redirects us to the specific page

1) Student Registration :
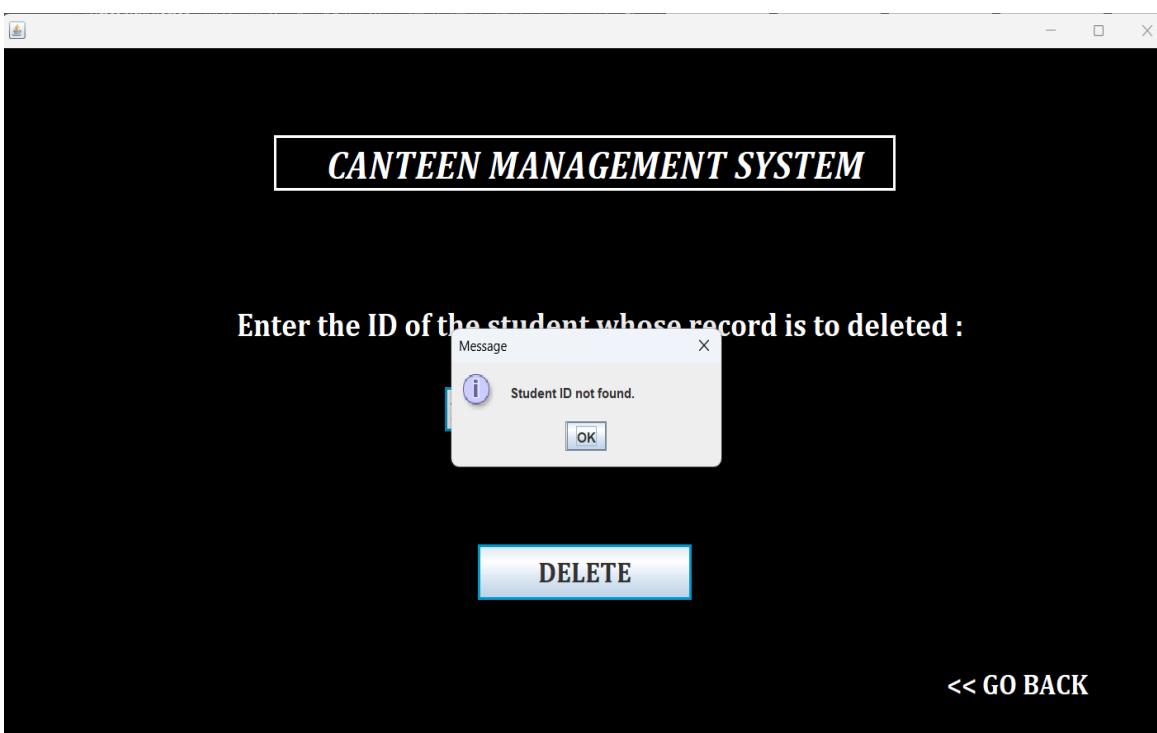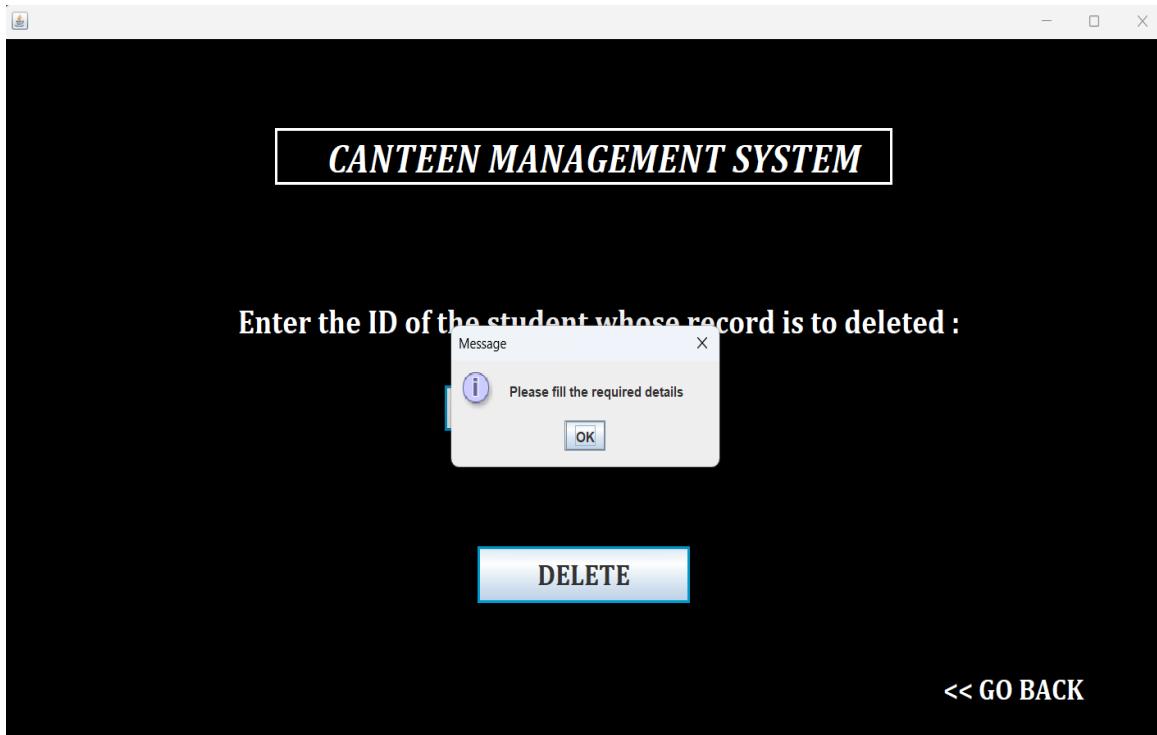
On selection of the Student Registration module. We are provided with four buttons as ADD STUDENT, DELETE STUDENT, UPDATE STUDENT, VIEW STUDENT Record respectively.
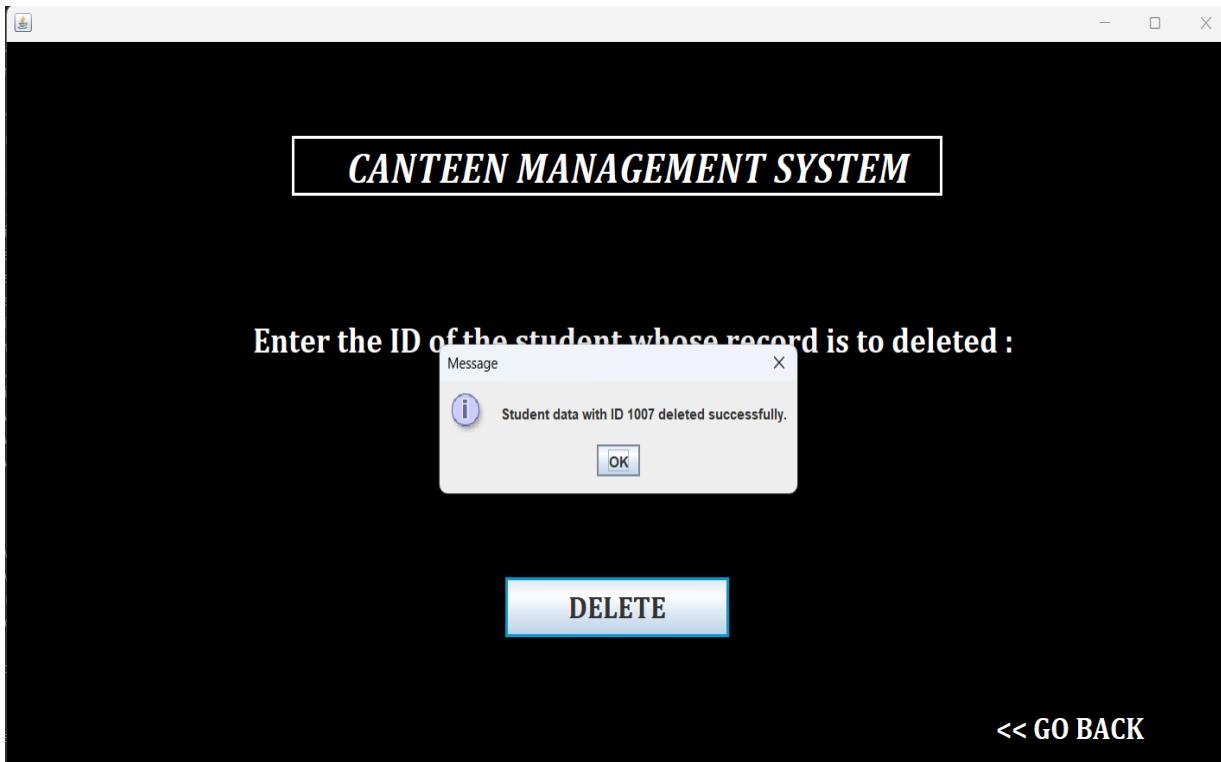
- **Add Student Record :** On clicking onto the Add Student Record, we are redirected to the next frame where we need to fill the various basic details of the student to be added into the system.

  Also at the end of the frame we are asked whether the student needs to purchase the package or not. If yes, then we need to click on to the YES option whereas if no, then we need to click on to the NO option.

  On selecting the YES option, we are displayed the various packages that the canteen has, and are asked to select one of the package with the particular ID.
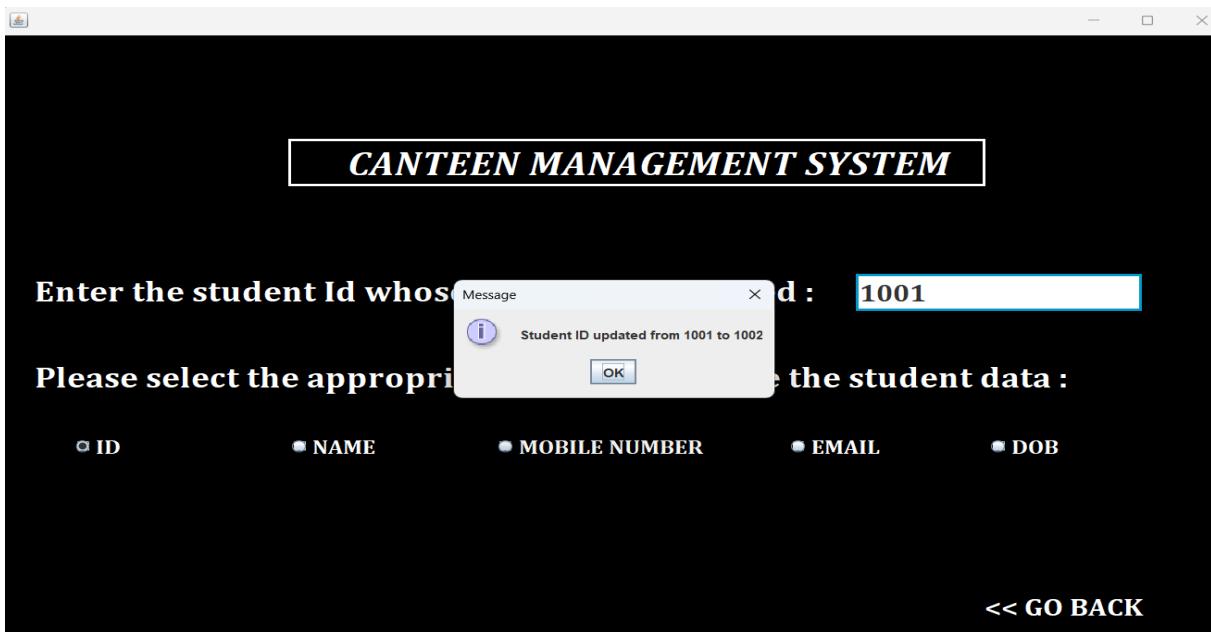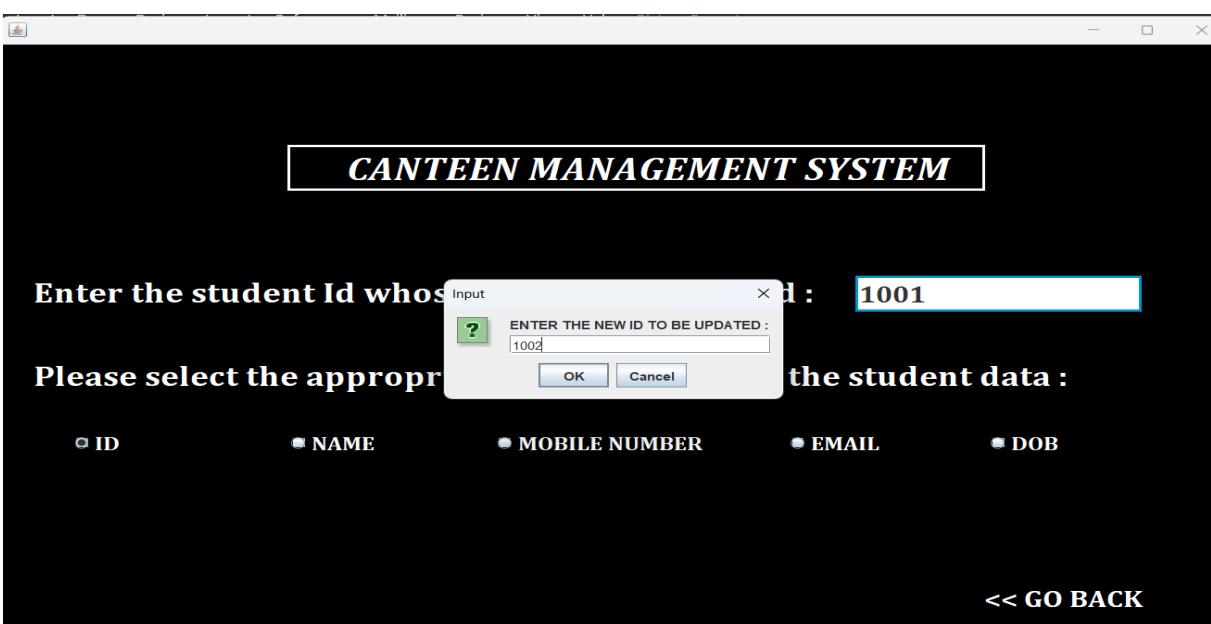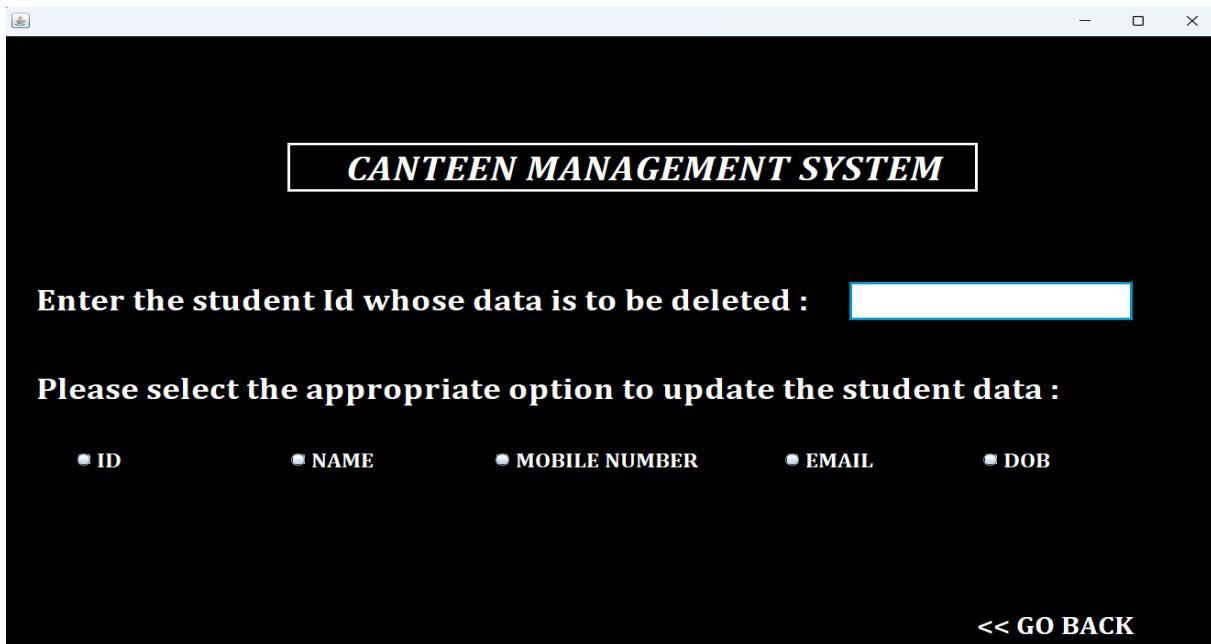
- **Delete Student Record :** On clicking onto the Delete Student Record, we are redirected to the next frame where we are asked the ID of the student whose record is to be deleted. If the ID is found into the database then, the student record with that particular ID is deleted and whereas if the ID is not found into the database then a pop message show casing "Student Record not found" is displayed.

  Also, if we do not provide the required student_id details properly, then a message show casing "Please fill the required details" is displayed.
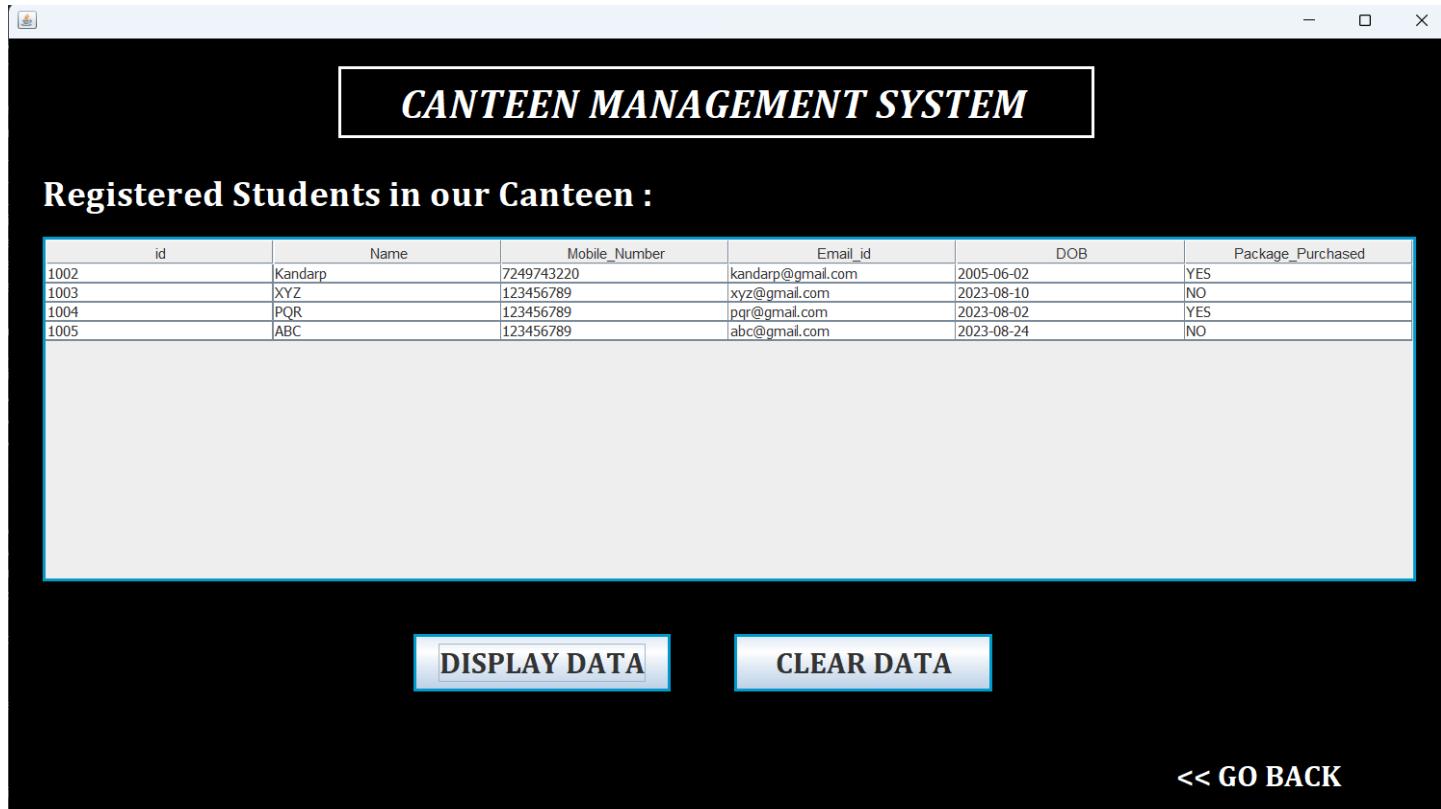
- **Update Student Record :** On clicking onto the Update Student Record, we are redirected to the next frame where we are asked the ID of the student whose record is to be updated. Also we are provided with various choices as ID, NAME, EMAIL, DOB, MOB_NO. etc, and we need to choose the appropriate option which is to be updated.
  On selecting any of the given options we are asked for the new value of that particular field which is to be assigned.
  For example : In case of NAME field, we are asked for the new NAME that is to be updated.
  Also the checking of the input type is performed, since the name can only be of the string type, then it is checked whether the provided input is also of string type only.
  A pop-up message displaying invalid input type is displayed if the proper input is not provided.
  Also, if we try to update the various fields without entering the required ID of the student whose details are to be updated, then a pop-up message displaying "Please fill the required details" is displayed

CANTEEN MANAGEMENT SYSTEM

Enter the student Id whose data is to be deleted :

Please select the appropriate option to update the student data :

● ID　　　　● NAME　　　　● MOBILE NUMBER　　　　● EMAIL　　　　● DOB

<< GO BACK

CANTEEN MANAGEMENT SYSTEM

Enter the student Id whos　　　d :　1001

Input ✕
? ENTER THE NEW ID TO BE UPDATED :
1002
[OK]　[Cancel]

Please select the appropr　　　the student data :

◉ ID　　　　● NAME　　　　● MOBILE NUMBER　　　　● EMAIL　　　　● DOB

<< GO BACK

CANTEEN MANAGEMENT SYSTEM

Enter the student Id whos　　　d :　1001

Message ✕
ⓘ Student ID updated from 1001 to 1002
[OK]

Please select the appropri　　　the student data :

◉ ID　　　　● NAME　　　　● MOBILE NUMBER　　　　● EMAIL　　　　● DOB

<< GO BACK

- **View Student Record :** On clicking onto the View Student Record, we are redirected to the next frame where we are provided with two buttons displaying the text as "DISPLAY DATA" and "CLEAR DATA" respectively.

  On clicking onto the "DISPLAY DATA" button, the entire records of the students in the canteen is displayed in the table format
  And whereas, clicking onto the "CLEAR DATA" button resets the table displaying the data.
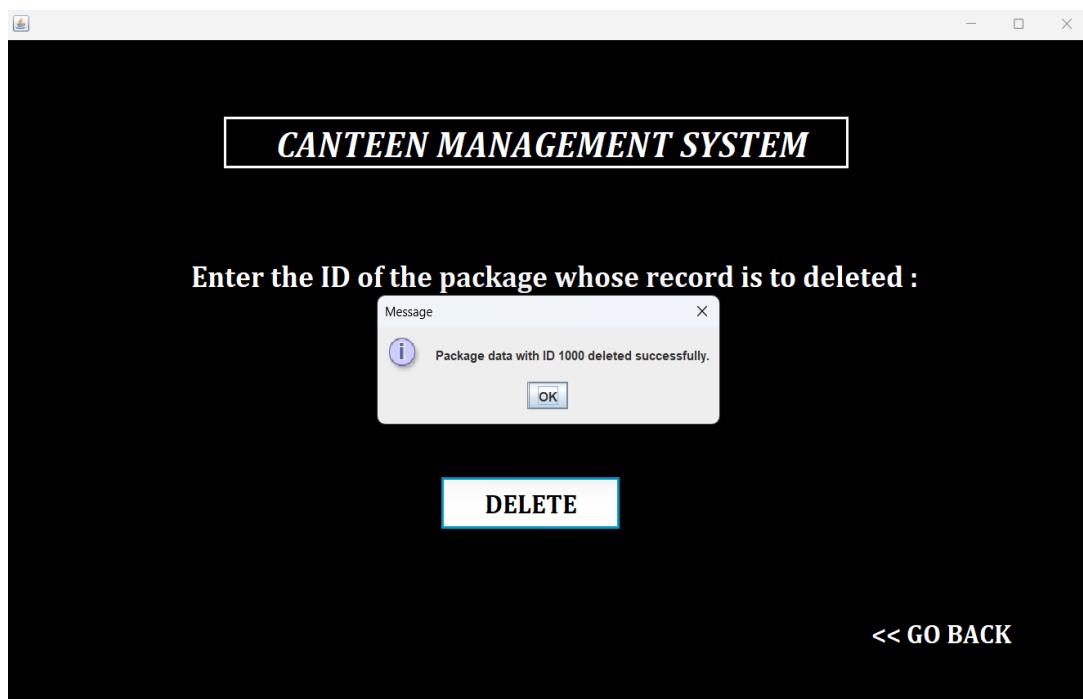
2) **Packages :** On selection of the Packages module. We are provided with four buttons as ADD PACKAGE, DELETE PACKAGE, UPDATE PACKAGE, VIEW PACKAGE respectively
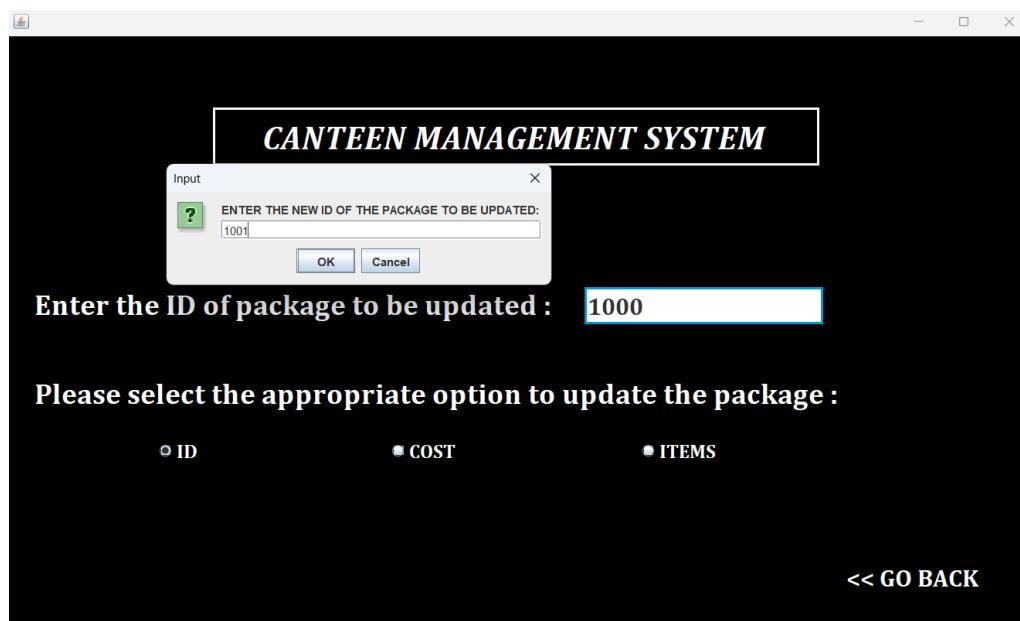
   - **Add Packages :** On clicking onto the Add Package button, we are redirected to the next frame where we need to fill the various basic details of the package to be added into the canteen system.

- **Delete Packages :** On clicking onto the Delete Package, we are redirected to the next frame where we are asked the ID of the package that is to be deleted. If the ID is found into the database then, the package with that particular ID is deleted and whereas if the ID is not found into the database then a pop message show casing "Package ID not found" is displayed.
  Also, if we do not provide the required package_id details properly, then a message show casing "Please fill the required details" is displayed.
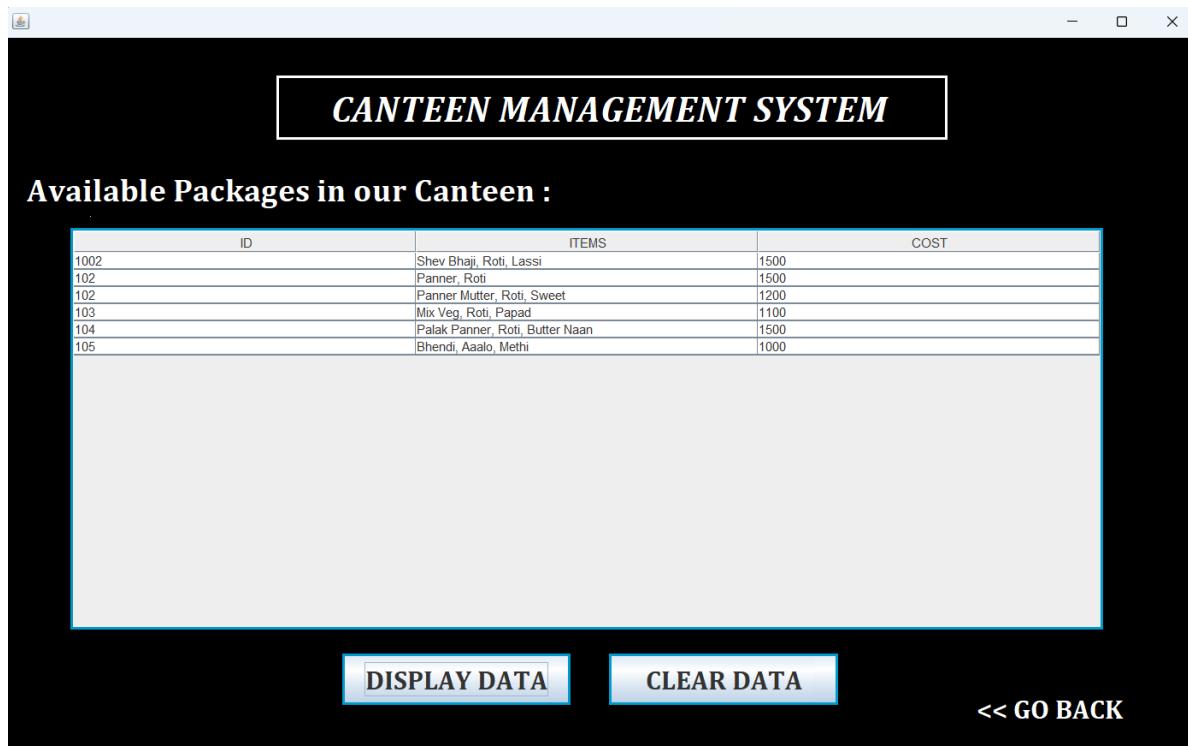
- **Update Packages :** On clicking onto the Update Package button, we are redirected to the next frame where we are asked the ID of the package which is to be updated. Also we are provided with various choices like ID, COST, ITEMS, etc, and we need to choose the appropriate option which is to be updated.

  On selecting any of the given options we are asked for the new value of that particular field which is to be assigned.

  For example : In case of ITEMS field, we are asked for the new ITEMS that are to be updated.

  Also the checking of the input type is performed, since the item can only be of the string type, then it is checked whether the provided input is also of string type only.

  A pop-up message displaying invalid input type is displayed if the proper input is not provided.

  Also, if we try to update the various fields without entering the required ID of the package which is to be updated, then a pop-up message displaying "Please fill the required details" is displayed
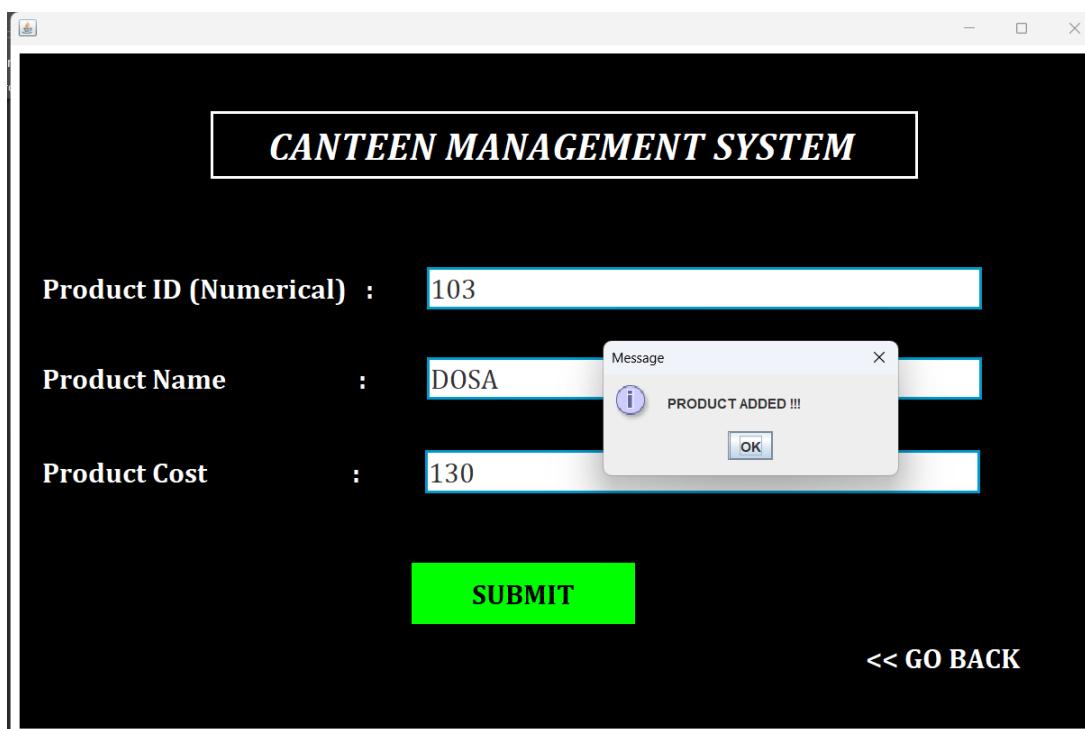
- **View Packages :** On clicking onto the View Package, we are redirected to the next frame where we are provided with two buttons displaying the text as "DISPLAY DATA" and "CLEAR DATA" respectively.

  On clicking onto the "DISPLAY DATA" button, the entire records of the packages in the canteen is displayed in the table format

  And whereas, clicking onto the "CLEAR DATA" button resets the table displaying the data.

CANTEEN MANAGEMENT SYSTEM

Available Packages in our Canteen :

ID	ITEMS	COST
1002	Shev Bhaji, Roti, Lassi	1500
102	Panner, Roti	1500
102	Panner Mutter, Roti, Sweet	1200
103	Mix Veg, Roti, Papad	1100
104	Palak Panner, Roti, Butter Naan	1500
105	Bhendi, Aaalo, Methi	1000

DISPLAY DATA   **CLEAR DATA**

<< GO BACK
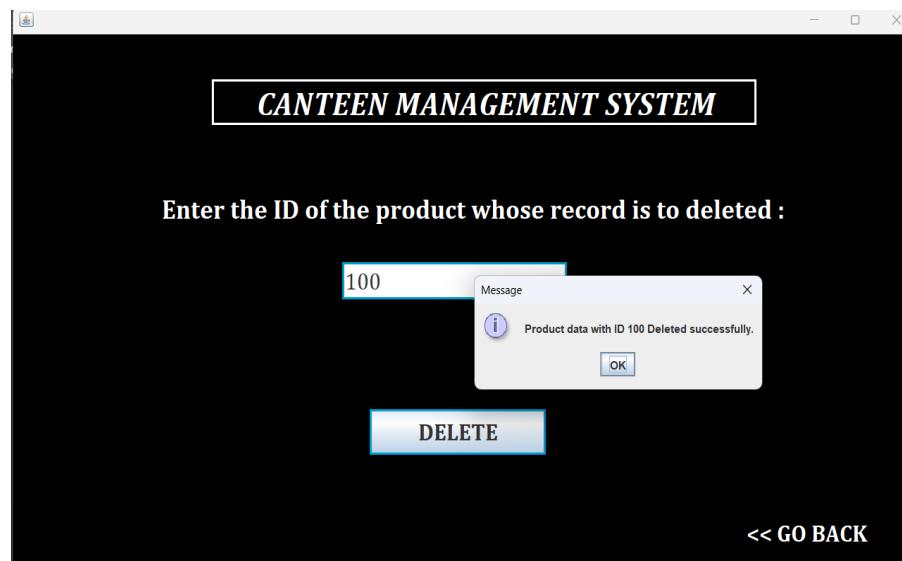
3) Product : On selection of the Product module. We are provided with four buttons as ADD PRODUCT, DELETE PRODUCT, UPDATE PRODUCT, VIEW PRODUCT respectively
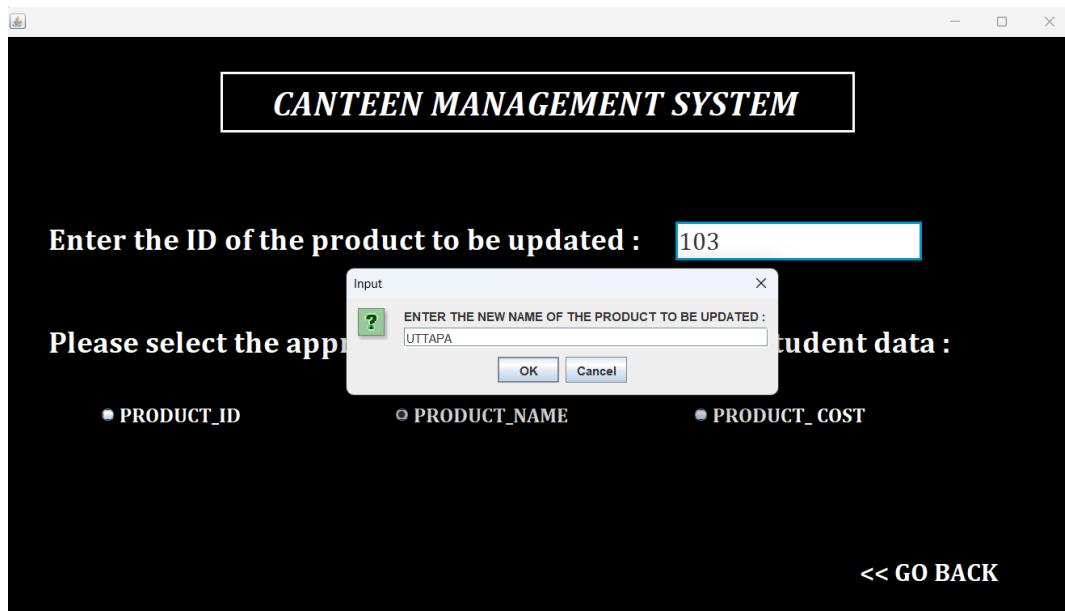
- **Add Product :** On clicking onto the Add Product button, we are redirected to the next frame where we need to fill the various basic details of the product to be added into the canteen system.

**CANTEEN MANAGEMENT SYSTEM**

Product ID (Numerical)   :   103

Product Name   :   DOSA

Message

(i)   PRODUCT ADDED !!!

OK

Product Cost   :   130

SUBMIT

<< GO BACK

- **Delete Product :** On clicking onto the Delete Product, we are redirected to the next frame where we are asked the ID of the product that is to be deleted. If the ID is found into the database then, the product with that particular ID is deleted and whereas if the ID is not found into the database then a pop message show casing "Product ID not found" is displayed.
  Also, if we do not provide the required product_id details properly, then a message show casing "Please fill the required details" is displayed.

- **Update Product :** On clicking onto the Update Product button, we are redirected to the next frame where we are asked the ID of the product which is to be updated. Also we are provided with various choices like ID, NAME, COST etc, and we need to choose the appropriate option which is to be updated.
  On selecting any of the given options we are asked for the new value of that particular field which is to be assigned.
  For example : In case of PRODUCT_ID field, we are asked for the new ID that is to be updated.
  Also the checking of the input type is performed, since the ID can only be of the numeric type, then it is checked whether the provided input is also of numeric type only.
  A pop-up message displaying invalid input type is displayed if the proper input is not provided.
  Also, if we try to update the various fields without entering the required ID of the product which is to be updated, then a pop-up message displaying "Please fill the required details" is displayed

- **View Product :** On clicking onto the View Product, we are redirected to the next frame where we are provided with two buttons displaying the text as "DISPLAY DATA" and "CLEAR DATA" respectively.

  On clicking onto the "DISPLAY DATA" button, the entire records of the products in the canteen is displayed in the table format
  And whereas, clicking onto the "CLEAR DATA" button resets the table displaying the data.

Chapter 10 : Special/Challenging experiences encountered during training

- Variety of technologies are available in market, so it becomes difficult to adapt all technologies.
- We need to give consistent time in order to learn software development. It was bit complicated to learn different things in a limited amount of time.
- As the training period was only for 45 days, so we were not able to learn various concepts like (Front-end designing) HTML, CSS in detail.

CONCLUSION :

This internship has been an excellent and rewarding experience. I can conclude that there have been a lot I've learnt from my work at **Sumago Infotech Pvt. Ltd, Nashik**. I have been able to meet and network with so many people that I am sure it will help me with opportunities in the future. Needless to say, the technical aspects of the work I've done are not flawless and could be improved provided enoughtime. Two main things that I've learned the importance of our time-management skills and self-motivation.

In Technical Knowledge I have learned many new things related to Full Stack Development. How the project should be ideally built such that it will match up with the client requirements. I also learned how to solve the issue we face during the development. Adapting new changes is hard at the starting of any new thing. I also found it hard at start but then slowly learning new skills became more interesting.

When we are in the real industry, we have to face clients with such a positive approach/ attitude so they can believe us and invest their valuable time and money. During our academic studies the only interaction done is between student and teacher so there is lack of such attitude. But due to this In-plant training we got opportunity to develop this behavioral attribute. I had many meetings with different client. So, I had to be very polite and a good listener to properly understand their requirements and be very descriptive to explain the idea/theme/design to them. If there is any lack of communication between client and us it creates very chaotic condition and I have experienced it in one of the projects.

One thing I realized in this internship period was that it is not the language that affect the communication nor your own attitude, it's the confident that does the work either make it good or worse. If you have confidence own yourself then you will not hesitate to talk in either Hindi, English or any language you arefamiliar with. This Internship gave me very good confidence to believe in myself and my skills.

References :

Following are the references which I had used to learn various new things during my training period

- https://www.w3schools.com/
- https://www.javatpoint.com/
- https://chat.openai.com/