



GUJARAT TECHNOLOGICAL UNIVERSITY
(Established under Gujarat Act No. 20 of 2007)
ગુજરાતટેકનોલોજીકલ યુનિવર્સિટી
(ગુજરાત અધિનિયમ ક્રમાંક: ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

Web Development

An INTERNSHIP REPORT

Submitted by

SAKSHI. S. PATEL

GTU Enrolment Number: 180050131542

In partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

in

**Computer Science &
Engineering**

Babaria Institute of Technology

NH #8, Varnama, Vadodara



Gujarat Technological University, Ahmedabad

[May, 2022]



Appendix 2



Babaria Institute of Technology
NH #8, Varnama, Vadodara

CERTIFICATE

This is to certify that the Internship report submitted along with the Internship entitled **Web Development** has been carried out by **SAKSHI. S. PATEL** under my guidance in partial fulfillment for the degree of Bachelor of Engineering in Computer Science & Engineering, 8th Semester of Gujarat Technological University, Ahmadabad during the academic year 2021-22.

Sign

Bhagyesha Pandhi

Internal Guide

Sign

Prof. Dr. Avani Vasant

Head of the Department



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Appendix 3



**GARIMA SYSTEM
SOLUTIONS PVT LTD**
CIN: U74999GJ2018PTC103138

Dated: 8/4/2022

TO WHOSOEVER IT MAY CONCERN

This is to certify that Ms. Sakshi Patel, a student of 4th year from Department of Computer Science and Engineering, Babaria Institute of Technology , has successfully completed her internship from 3.1.2022 to 8.4.2022 at our Organization.

During the period of her internship Program with us, she was found to be punctual, intelligent, hard-working and inquisitive.

We wish her every success in professional life.

Hiral Patel
CHRO
Garima System Solutions Pvt.Ltd.





Appendix 4
Industry Letter Head

Date: 08/04/2022

TO WHOM IT MAY CONCERN

This is to certify that SAKSHI. S. PATEL, a student of Babaria Institute of Technology has successfully completed his/her internship in the field of Web Development from 03/01/22 to 08/04/22

Total number of Weeks: 12 Weeks under the guidance of Dhananjay Vyas.

Her internship activities include

1. Understanding the flow of the entire Gravy Production
2. Arranging the web screens according to the process flow
3. Preparing the database design and documenting it for the Web Design
4. Designing ERD for the database
5. Screen Designing
6. Testing and debugging the created web pages

During the period of her internship program with us, she had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish her every success in her life and career.

For Garima System Solutions Pvt Ltd.

Authorized Signature with Industry Stamp



GUJARAT TECHNOLOGICAL UNIVERSITY
(Established under Gujarat Act No. 20 of 2007)
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Appendix 5

 **GARIMA SYSTEM
SOLUTIONS PVT LTD**
CIN: U78899GJ2016PTC103738

21.10.2021

To,

**Head of Department,
Computer Science Engineering,
Babaria Institute of Technology,
Vadodara**

Sub: Internship for Student of B.E. (Computer Science)

Resp. Madam/Sir

We are happy to confirm our willingness to offer Internship from 3.1.2022 to 8.4.2022 to the student ,details are as under.

1. Ms. Sakshi Patel

As part of her curriculum, the student will be required to come to the organization regularly during stipulated working hours (09:00 to 18:00). The student must abide by the rules and regulations of the organization.

All documentation related to the project will have to be created by the student. The responsibility of this organization is to guide the student on the project and help him get acquainted with the norms prevalent in the industry. All submission requirements of the college will be the responsibility of the student only.

During the course of the training certain business-related information may be revealed to the student, and the student must agree to non-disclosure of such information or software to outside entities except for the purpose of this training.

We request you to give us your concurrence under your official seal with a recent photograph of the student attached.

Thanking you,

For Garima System Solutions Pvt Ltd.

Hiral Patel



302 Purushottam Avenue, Beside HDFC bank, Radha Krishna cross road, Akota, Vadodara 390 007, INDIA
Web: www.garimasystem.com E-mail: info@garimasystem.com
Mob: +91 982 535 1702

Simplified Technology, Enabling Solutions



Appendix 6



Babaria Institute of Technology

NH #8, Varnama, Vadodara

DECLARATION

We hereby declare that the Internship report submitted along with the Internship entitled **Web Development** submitted in partial fulfillment for the degree of Bachelor of Engineering in Computer Science & Engineering to Gujarat Technological University, Ahmedabad, is a bonafide record of original internship work carried out by me / us at Garima System Solutions Pvt Ltd. under the supervision of Dhananjay Vyas and that no part of this report has been directly copied from any students' reports or taken from any other source, without providing due reference.

Name of the Student

1 SAKSHI. S. PATEL

Sign of Student



Appendix 7

Acknowledgement

I/We wish to express our sincere gratitude to our External guide **Mr. Dhananjay Vyas** for continuously guiding me at the company and answering all my doubts with patience. I/We would also like to thank my/our Internal Guide **Prof. Bhagyesha Pandhi** for helping us through our internship by giving us the necessary suggestions and advices along with their valuable co-ordination in completing this internship.

We also thank our parents, friends and all the members of the family for their precious support and encouragement which they had provided in completion of our work. In addition to that, we would also like to mention the company personals who gave us the permission to use and experience the valuable resources required for the internship.

Thus, in conclusion to the above said, we once again thank the staff members of **Garima System Solutions Pvt Ltd.** for their valuable support in completion of the internship.

Thank You
Sakshi Patel



Appendix 8

Abstract

Garima System Solutions are a team of Technology Professionals who provide solutions to problems of businesses, industries, government agencies and educational institutions using a combination of advanced tools like Internet of Things (IoT), Near-Field Communication (NFC), Radio Frequency (RF), Bluetooth Low Energy (BLE), Low Power Wide Area Network (LPWAN), Artificial Intelligence (AI) and Big Data, Web Services and Windows Services APIs.

We provide Information Technology Solutions & Services. Instead of merely providing what a customer wants, we try to understand their needs, and with their understanding, consent and approval, build and provide what they actually need.

They help create custom-made technology systems, enhancement of the existing system to suit current & future needs, integrating disparate technology systems built on different platforms and provide a platform for off-shoring development work.



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- Fig 6 - Code 2
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- Fig 9 - Code 5
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- Fig 14 -Wireframe
- Fig 15 - IIS Manager
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- Fig 19 - Testing Output 2
- Fig 20 - Testing Output 3
- Fig 21 - Testing Output 4



Appendix 10

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List of Abbreviations

- HTML: Hyper Text Markup language
- CSS: Cascading Style Sheets
- IIS Manager: Internet Information Services
- SQL management Studio: Structured Query Language
- ERD: Entity Relationship Diagram
- UX: User Experience



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Appendix 12

Chapter 1: Overview of the Company

1.1 Introduction of the company

Garima System Solution (GSS) is young and ambitious Technology Company, who partners with Clients to provide Solutions to improve Efficiency, Business Visibility and Analytics

Garima System Solutions are a team of Technology Professionals who provide solutions to problems of businesses, industries, government agencies and educational. We provide Information Technology Solutions & Services. Instead of merely providing what a customer wants, we try to understand their needs, and with their understanding, consent and approval, build and provide what they actually need. They help create custom-made technology systems, enhancement of the existing system to suit current & future needs, integrating disparate technology systems built on different platforms and provide a platform for off-shoring development work.

Vision:

To provide an Optimum, Simplified Solution and a Great User Experience through Innovation and Technology

- Simple Design
- Great User Experience
- Best Technology Fit



Appendix 13

1.2 Milestones

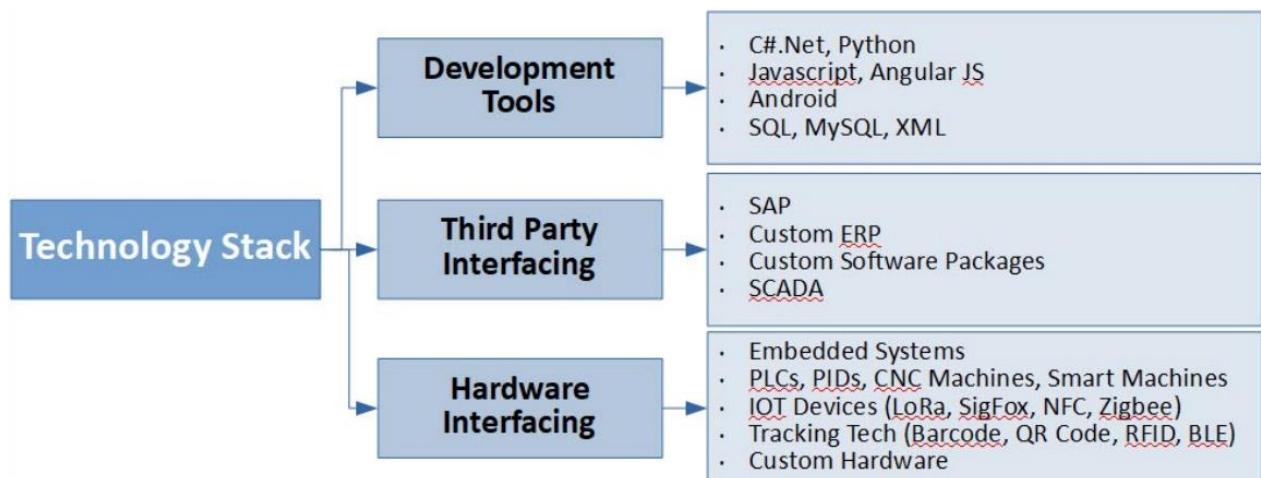
Our journey so far...

- 2008 – Started as Banyan Tree Software Solutions with 3 Employees
- 2008 – Delivered first Custom Web Application
- 2010 – Ventured into Device Interfacing Systems
- 2013 - MoU with M/s eSec Security Consultants for Security & Access Control related Solutions
- 2015 – Selected by Open Automation System (USA) for OPC Integration in India
- 2016 – First IOT Based Solution provided to Dairy Industry
- 2018 – Garima System Solutions Pvt Ltd formally registered
- 2020 – IOT Based Material Tracking System for M/s Linde Engineering



Appendix 14

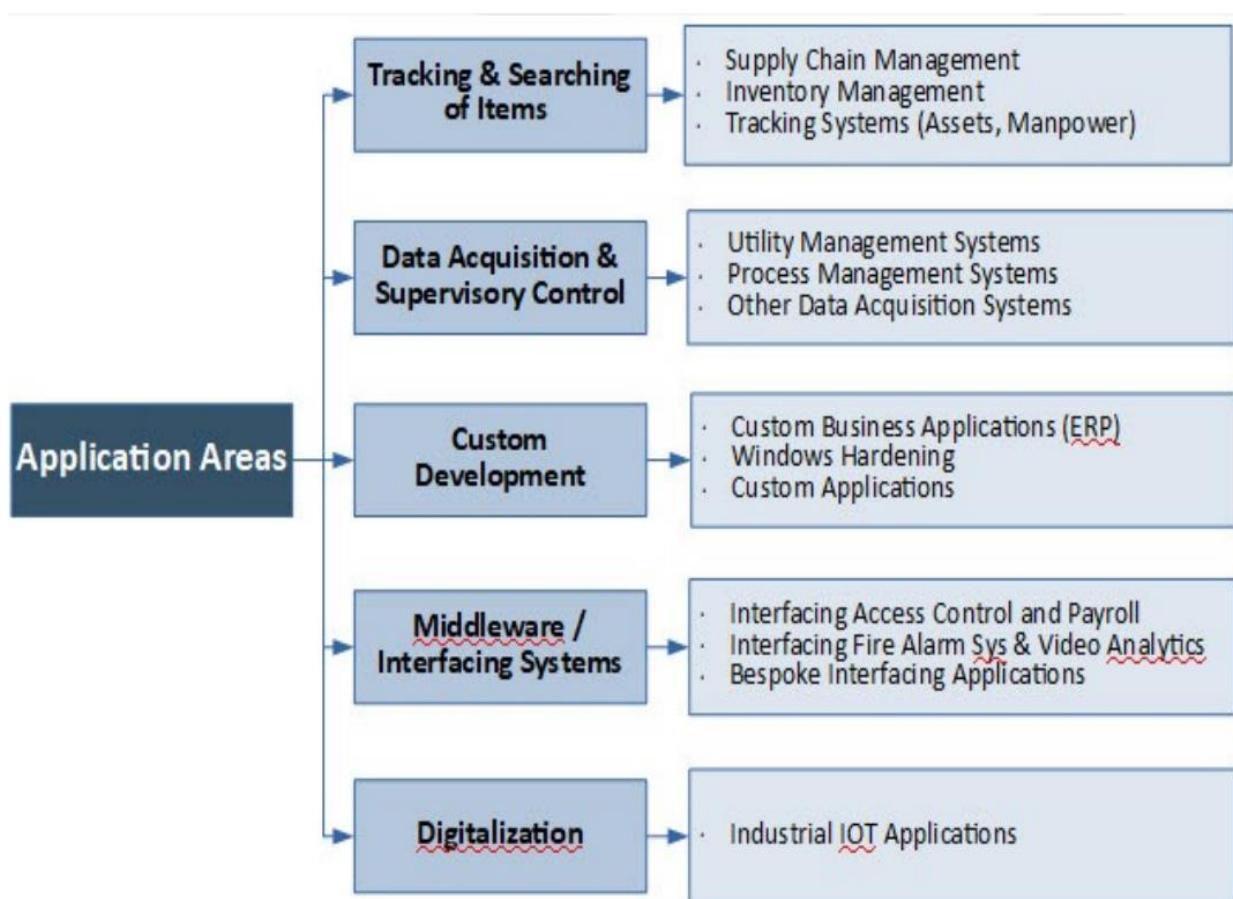
1.3 Technology Stack





Appendix 15

1.4 Application Area





Appendix 16

Chapter 2: Introduction to Internship

2.1 About Internship

Garima System Solutions Pvt. Ltd. (GSSPL) is a fast-growing company whose core objective is to provide world class technology solutions with a touch of creativity and sincerity. They provide end to end solutions which are enduring, effective and timely, and fulfil the clients' needs and expectations. I chose this organization because I find their mission to be important and relevant to my career goals.

My role at **GSSPL** as an intern was to follow the daily routine and complete the tasks we were assigned. I worked directly with developing team, who were working on an ongoing project.

During this internship I acquired deeper knowledge concerning my technical skills. Currently HTML is a common part of web applications, and it is one of the most popular languages for web designing used by professionals worldwide. If we surf internet, we can see millions of websites designed with HTML and CSS. Indeed, I grew more independent in work and also in everyday life. I realized that I could do more things than I thought, like learning new things by myself. There are huge opportunities available for the students who want to work in this field. Many private and public organizations hire web designer for their online work and website development. With the rapid advent of online industry, the demand of web development professionals is increasing, and this has created a huge job opportunity for the aspirants in the upcoming days. Also, an experienced person in this field can also work as a freelancer; there are many online companies which provide online projects to the individuals.

During my internship experience with **GSSPL** I was able to develop my [Html, CSS, SQL_Database, Testing, Er-diagram, Use Case Diagram]. I particularly found [Html, Testing, Er-diagram, Use Case Diagram] to be useful in improving my Web Developing skills. Although I found Html to be challenging, I found it to be valuable in developing my Coding skill.



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While I had many useful experiences at this company, I feel that I still need to develop my confidence levels with Coding. I would have enjoyed giving more time to Web Testing. I personally also benefited in learning some soft skills. And

moreover, what I've learned is, the importance of time-management skills and self-motivation.

In a nutshell, 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 **Garima System Solutions**. Needless to say, the technical aspects of the work I've done are not flawless and could be improved provided enough time. As someone with no prior experience with Web Development, I believe my time spent in research and discovering it was well worth it.



Appendix 18

2.2 Project Definition

- Inventory Management System - Vangi Foods

- Vangi Foods is a Gravy Producing Company based in Karamsad, Gujarat.

- Inventory management is the practice of planning the buying, storing and selling of stock—whether it's raw materials, parts or finished goods—to ensure the right type and amount of stock is available without holding excess stock and thereby tying up cash. When done correctly, inventory management saves companies money

- The primary purpose of inventory management is to ensure there is enough goods or materials to meet demand without creating overstock, or excess inventory.



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2.3 Objective

The following are the benefits & Objectives inventory management:

- **Better Inventory Accuracy:** With solid inventory management, you know what's in stock and order only the amount of inventory you need to meet demand.
- **Reduced Risk of Overselling:** Inventory management helps track what's in stock and what's on backorder, so you don't oversell products.
- **Cost Savings:** Stock costs money until it sells. Carrying costs include storage handling and transportation fees, insurance and employee salaries. Inventory is also at risk of theft, loss from natural disasters or obsolescence.
- **Avoiding Stockouts and Excess Stock:** Better planning and management helps a business minimize the number of days, if any, that an item is out of stock *and* avoid carrying too much inventory. Learn more about solving for stockouts in our “Essential Guide to Inventory Control.”
- **Greater Insights:** With inventory tracking and stock control, you can also easily spot sales trends or track recalled products or expiry dates.
- **Better Terms with Vendors and Suppliers:** Inventory management also provides insights about which products sell and in what volume. Use that knowledge as leverage to negotiate better prices and terms with suppliers.



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- **More Productivity:** Good inventory management solutions save time that could be spent on other activities.

- **Increased Profits:** A better understanding of both availability and demand leads to higher inventory turnover, which leads to greater profits.

- **A More Organized Warehouse:** An efficient warehouse with items organized based on demand, which items are often sold together and other factors reduces labour costs and speeds order fulfilment.

- **Better Customer Experience:** Customers that receive what they order on time are more loyal.



Appendix 21

2.4 Project Details

1. Understanding the flow of the entire Gravy Production
2. Arranging the web screens according to the process flow
3. Preparing the database design and documenting it for the Web Design
4. Designing ERD for the database

5. Screen Designing
6. Testing and debugging the created web pages



Appendix 22

2.5 Technology Used

- Html
- SQL Management Server
- Draw.io
- CSS



Appendix 23

2.6 Daily Tasks & Activities

Table 1:

| Day | Date | Activities/ Projects |
|-----|------------|-------------------------------------------------------------------|
| 1 | 03-01-2022 | Introduction about the Company |
| 2 | 04-01-2022 | Knowing about the Technologies they are using in their projects |
| 3 | 05-01-2022 | Knowing about more technologies: SAP, SCADA, LORA gateway. |
| 4 | 06-01-2022 | Knowing about more technologies: NFC, RFID, GPS Zigbee, Lora Wan. |
| 5 | 07-01-2022 | Knowing about more technologies: BLE, MQTT, Mod Bus, Sigfox. |
| 6 | 08-01-2022 | Html form editing / Screen Designing |
| 7 | 09-01-2022 | Holiday |
| 8 | 10-01-2022 | Html form editing / Screen Designing |
| 9 | 11-01-2022 | Html form editing / Screen Designing |
| 10 | 12-01-2022 | Html form editing / Screen Designing |
| 11 | 13-01-2022 | Html form editing / Screen Designing |
| 12 | 14-01-2022 | Holiday |
| 13 | 15-01-2022 | Holiday |
| 14 | 16-01-2022 | Holiday |
| 15 | 17-01-2022 | Re-Correcting Html form/ screen Designing |
| 16 | 18-01-2022 | Re-Correcting Html form/ screen Designing |
| 17 | 19-01-2022 | Re-Correcting Html form/ screen Designing |
| 18 | 20-01-2022 | Html form editing / Screen Designing |
| 19 | 21-01-2022 | Html form editing / Screen Designing |
| 20 | 22-01-2022 | Html form editing / Screen Designing |
| 21 | 23-01-2022 | Holiday |
| 22 | 24-01-2022 | Html form editing / Screen Designing |
| 23 | 25-01-2022 | Database Designing |



Appendix 24

| | | |
|----|------------|----------------------------------------------------------|
| 24 | 26-01-2022 | Holiday |
| 25 | 27-01-2022 | Database Designing |
| 26 | 28-01-2022 | Database Designing/ /Html form Editing /Screen Designing |
| 27 | 29-01-2022 | Database Designing |
| 28 | 30-01-2022 | Holiday |
| 29 | 31-01-2022 | Re-Correcting & Designing: Html form/ screen Designing |
| 30 | 01-02-2022 | Database Entries |
| 31 | 02-02-2022 | Database Entries |
| 32 | 03-02-2022 | Database Entries |
| 33 | 04-02-2022 | Database Entries |
| 34 | 05-02-2022 | Re-Correcting & Designing: Html form/ screen Designing |
| 35 | 06-02-2022 | Holiday |
| 36 | 07-02-2022 | Database Designing |
| 37 | 08-02-2022 | Html form editing / Screen Designing |
| 38 | 09-02-2022 | Database Designing |
| 39 | 10-02-2022 | Html form editing / Screen Designing |
| 40 | 11-02-2022 | Database Designing |
| 41 | 12-02-2022 | Database Entries |
| 42 | 13-02-2022 | Holiday |
| 43 | 14-02-2022 | Html form editing / Screen Designing |
| 44 | 15-02-2022 | Web Software Testing/ Screen Testing |
| 45 | 16-02-2022 | Database Designing |
| 46 | 17-02-2022 | Html form editing / Screen Designing |
| 47 | 18-02-2022 | Database Designing |
| 48 | 19-02-2022 | Database Entries |
| 49 | 20-02-2022 | Holiday |
| 50 | 21-02-2022 | Web Software Testing/ Screen Testing |
| 51 | 22-02-2022 | Database Entries |
| 52 | 23-02-2022 | Database Entries |
| 53 | 24-02-2022 | Database Entries |
| 54 | 25-02-2022 | Database Entries |
| 55 | 26-02-2022 | Web Software Testing/ Screen Testing |
| 56 | 27-02-2022 | Holiday |



Appendix 25

| | | |
|----|------------|-------------------------------------------|
| 57 | 28-02-2022 | Database Designing |
| 58 | 01-03-2022 | Er-Diagram/ Use Case Diagram |
| 59 | 02-03-2022 | Er-Diagram/ Use Case Diagram |
| 60 | 03-03-2022 | Web Software Testing/ Screen Testing |
| 61 | 04-03-2022 | Database Designing |
| 62 | 05-03-2022 | Web Software Testing/ Screen Testing |
| 63 | 06-03-2022 | Holiday |
| 64 | 07-03-2022 | Web Software Testing/ Screen Testing |
| 65 | 08-03-2022 | Web Software Testing/ Screen Testing |
| 66 | 09-03-2022 | Database Entries |
| 67 | 10-03-2022 | Checking Test Cases |
| 68 | 11-03-2022 | Checking Test Cases |
| 69 | 12-03-2022 | Web Software Testing/ Screen Testing |
| 70 | 13-03-2022 | Holiday |
| 71 | 14-03-2022 | Html form editing / Screen Designing |
| 72 | 15-03-2022 | Database Designing |
| 73 | 16-03-2022 | Er-Diagram |
| 74 | 17-03-2022 | Re-Correcting Html form/ screen Designing |
| 75 | 18-03-2022 | Holiday |
| 76 | 19-03-2022 | Web Software Testing/ Screen Testing |
| 77 | 20-03-2022 | Holiday |
| 78 | 21-03-2022 | Er-Diagram |
| 79 | 22-03-2022 | Html form editing / Screen Designing |
| 80 | 23-03-2022 | Er-Diagram |
| 81 | 24-03-2022 | Database Designing |
| 82 | 25-03-2022 | Er-Diagram |
| 83 | 26-03-2022 | Er-Diagram |
| 84 | 27-03-2022 | Holiday |
| 85 | 28-03-2022 | Database Entries |
| 86 | 29-03-2022 | Database Entries |
| 87 | 30-03-2022 | Er-Diagram |
| 88 | 31-03-2022 | Web Software Testing/ Screen Testing |
| 89 | 01-04-2022 | Web Software Testing/ Screen Testing |
| 90 | 02-04-2022 | Er-Diagram |
| 91 | 03-04-2022 | Holiday |
| 92 | 04-04-2022 | Database Entries |



Appendix 26

| | | |
|----|------------|--------------------------------------|
| 93 | 05-04-2022 | Web Software Testing/ Screen Testing |
| 94 | 06-04-2022 | Web Software Testing/ Screen Testing |
| 95 | 07-04-2022 | Er-Diagram |
| 96 | 08-04-2022 | Database Designing |



Appendix 27

2.7 Roles & Responsibilities in Internship

- 1). Discuss progress and engage in discussion of topics relevant to the operation and philosophical perspective of the office and functional area in general.
- 2). Carry out established activities and any additional responsibilities which are mutually agreed upon by the student and supervisor.
- 3). Ful fill agreed upon time commitments.
- 4). Conduct oneself in a responsible and professional manner.
- 5). Understand the task and ask doubts if there are any problem while



Appendix 28

Chapter 3: System Design

3.1 Database Design

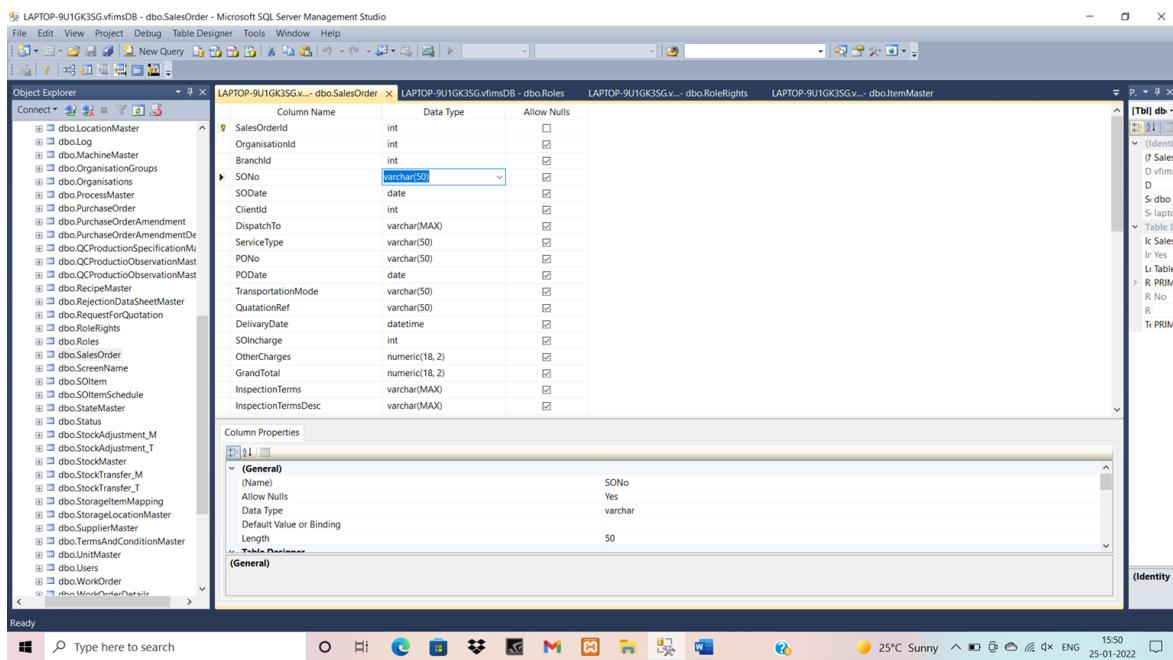


Fig 1: SQL Management Studio

The screenshot shows a Microsoft Word document titled 'VangFood Database Design Document - V0.3 (Compatibility Mode)'. The Word ribbon is visible at the top. Below the ribbon, there are two tables. The first table is for the 'ItemMaster' table:

| Column | Data Type | Constraints | Description | Validation |
|------------------|---------------|------------------|-----------------------|------------|
| ItemCategoryID | Int | Primary Key (PK) | | |
| ItemCategoryName | varchar(70) | | Name of Item Category | |
| Description | VARCHAR (150) | | | |
| IsDeleted | Int | | | |
| CreatedBy | Int | | | |
| CreatedDate | datetime | | | |
| LastModifiedBy | Int | | | |
| LastModifiedDate | datetime | | | |

A note below the table states: "This is ItemMaster Table for Master entry of item list, Insert data into table via manual entry screen of Item master."

The second table is for the 'QCProductionSpecificationMaster' table:

| Column | Data Type | Constraints | Description | Validation |
|------------------|--------------|------------------|---------------------------------|------------|
| ItemID | Int | Primary Key (PK) | | |
| ItemCategoryID | Int | | FK for Item Category Master | |
| ItemName | varchar(70) | | Item Name Category Wise | |
| ItemCode | nvarchar(50) | | Code of Item Category from Item | |
| IsDeleted | Int | | | |
| CreatedBy | Int | | | |
| CreatedDate | datetime | | | |
| LastModifiedBy | Int | | | |
| LastModifiedDate | datetime | | | |

A note below the table states: "This is QCProductionSpecificationMaster Table for Master entry of QC Production Specification"

Fig 2: Database Design



Appendix 29

3.2 ERD

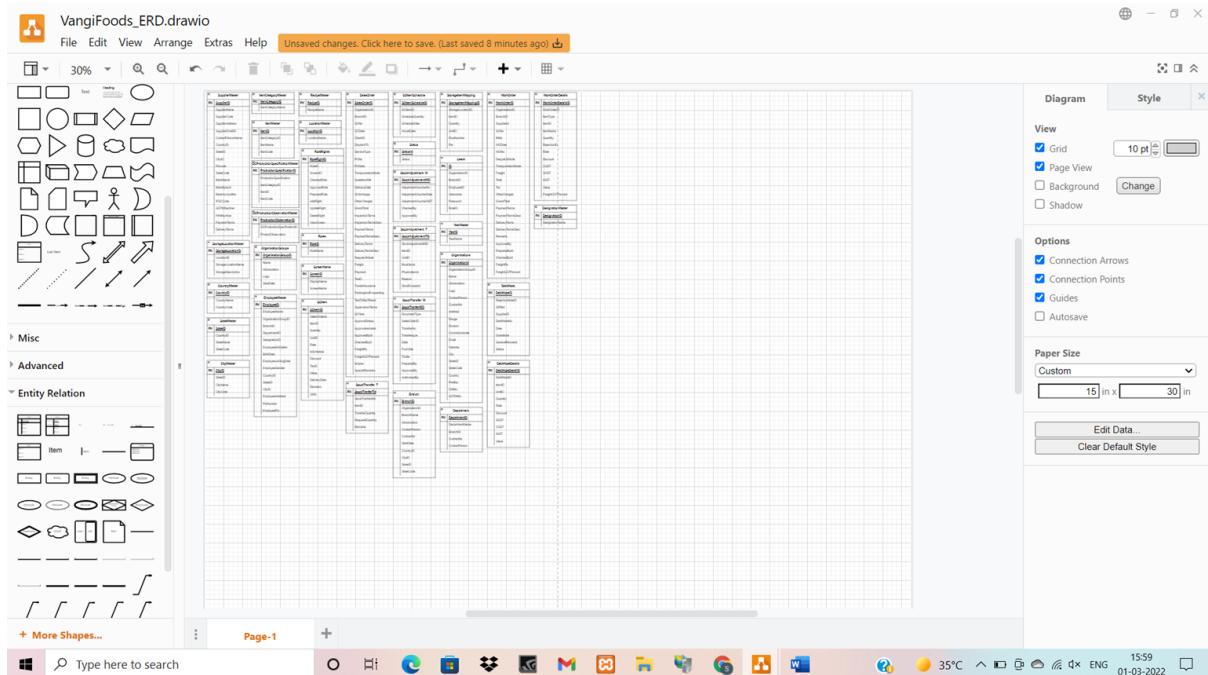


Fig 3: ERD

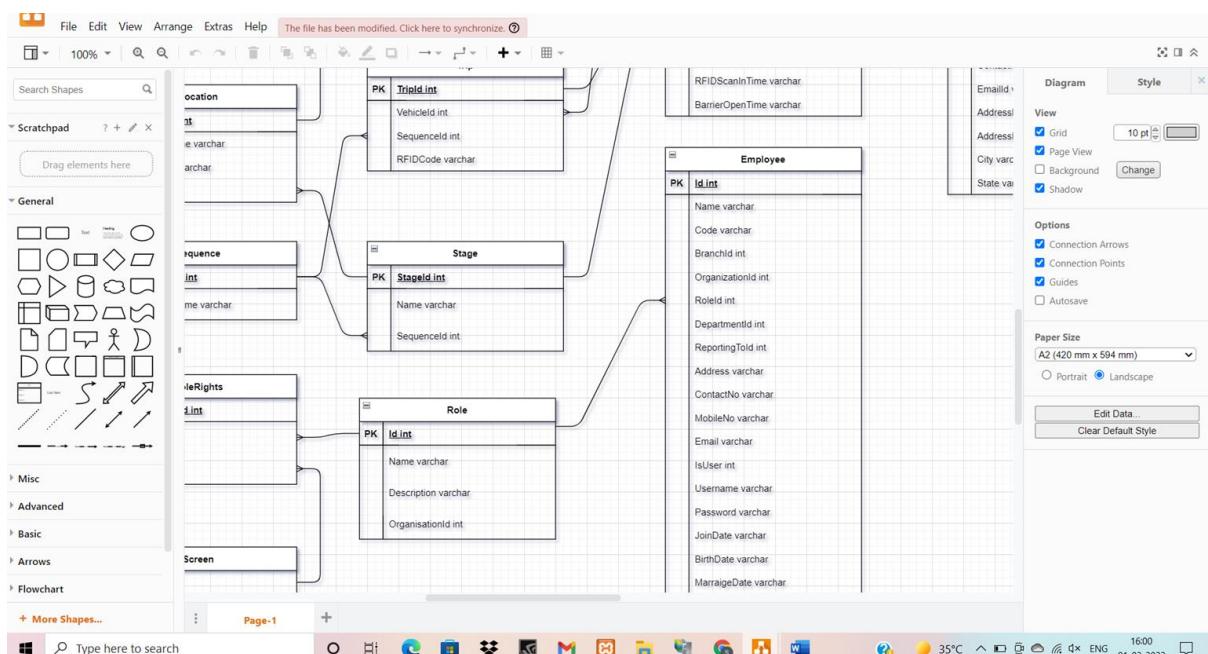


Fig 3: ERD



Appendix 30

3.3 UX - Use Case Diagram

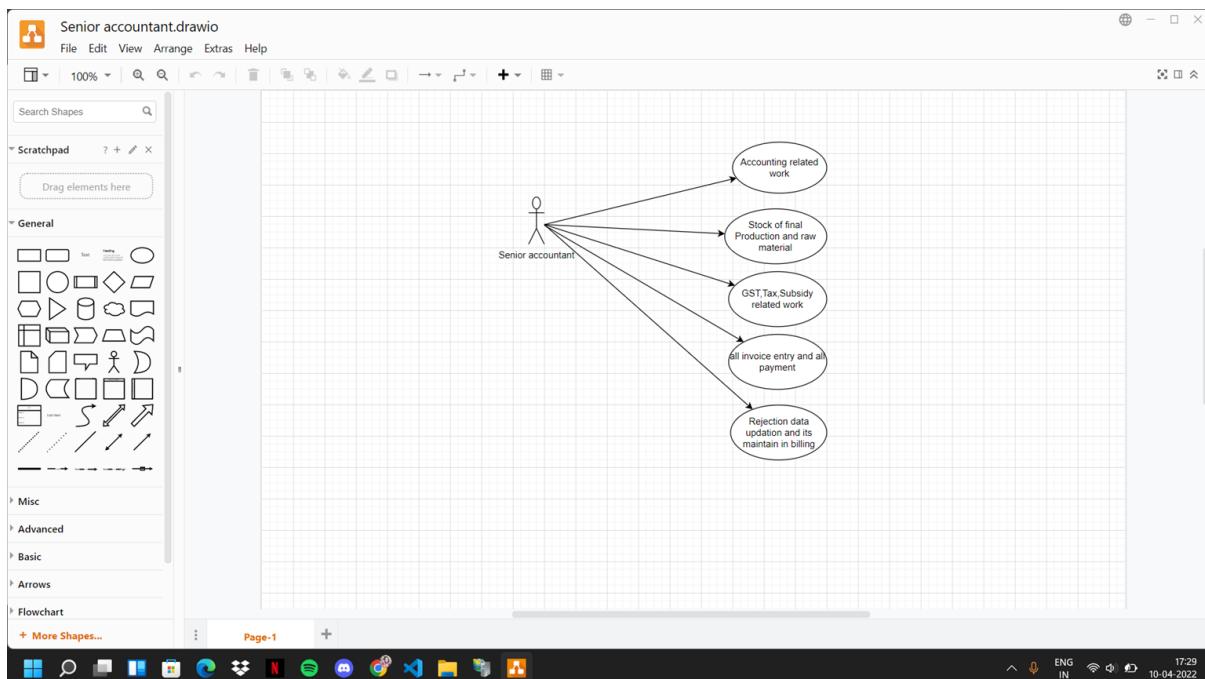


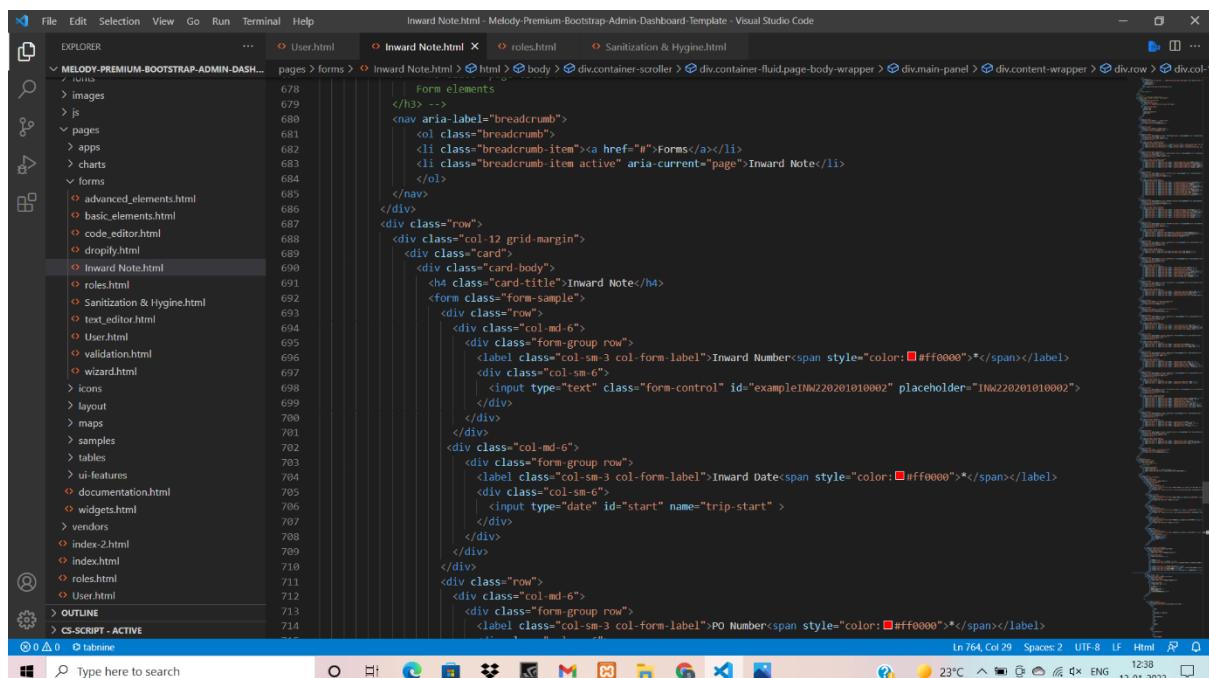
Fig 4: UX – Use Case Diagram



Appendix 31

3.4 Screen Testing

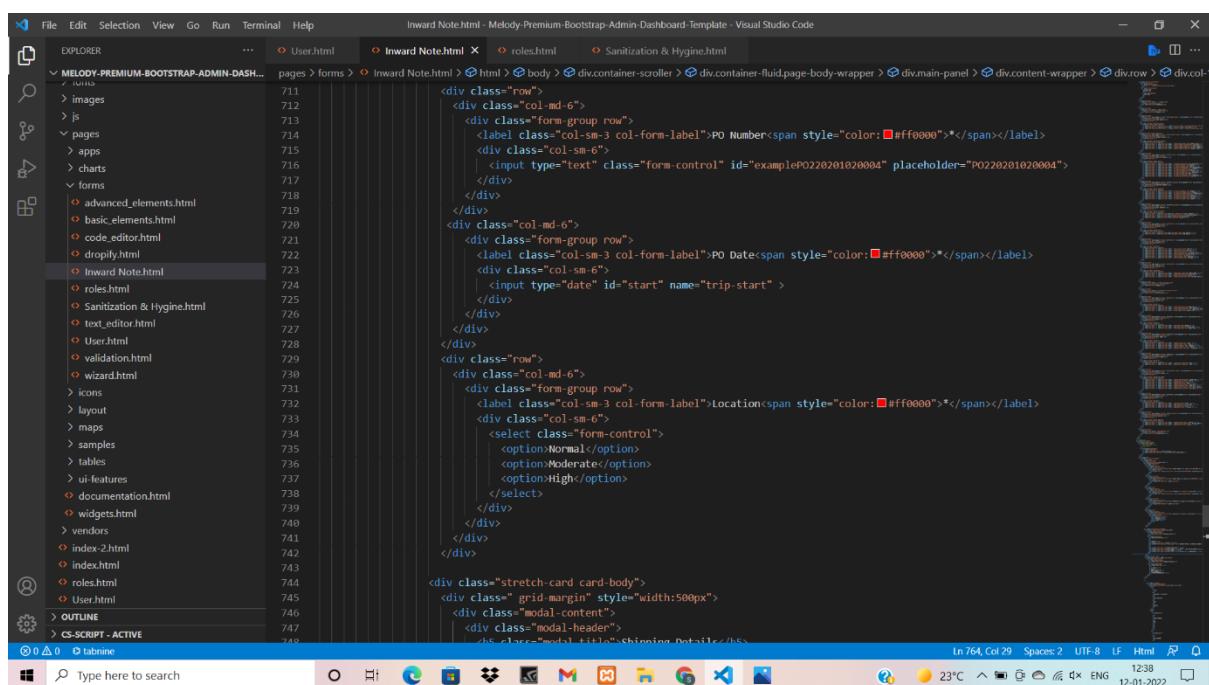
Code:



The screenshot shows the Visual Studio Code interface with the file "Inward Note.html" open. The code is a template for an inward note form. It includes sections for Inward Number, Inward Date, PO Number, PO Date, and Location. The code uses Bootstrap classes like col-md-6 and col-sm-3 for layout, and form-control for input fields.

```
</div> -->
<nav aria-label="breadcrumb">
  <ol class="breadcrumb">
    <li class="breadcrumb-item"><a href="#">Forms</a></li>
    <li class="breadcrumb-item active" aria-current="page">Inward Note</li>
  </ol>
</nav>
<div class="row">
  <div class="col-12 grid-margin">
    <div class="card">
      <div class="card-body">
        <h4 class="card-title">Inward Note</h4>
        <form class="form-sample">
          <div class="row">
            <div class="col-md-6">
              <div class="form-group row">
                <label class="col-sm-3 col-form-label">Inward Number<span style="color: #ff0000;">*</span></label>
                <div class="col-sm-6">
                  <input type="text" class="form-control" id="exampleINw220201010002" placeholder="INw220201010002">
                </div>
              </div>
            <div class="col-md-6">
              <div class="form-group row">
                <label class="col-sm-3 col-form-label">Inward Date<span style="color: #ff0000;">*</span></label>
                <div class="col-sm-6">
                  <input type="date" id="start" name="trip-start" >
                </div>
              </div>
            </div>
          <div class="row">
            <div class="col-md-6">
              <div class="form-group row">
                <label class="col-sm-3 col-form-label">PO Number<span style="color: #ff0000;">*</span></label>
                <div class="col-sm-6">
                  <input type="text" class="form-control" id="examplePO220201020004" placeholder="P0220201020004">
                </div>
              </div>
            </div>
          </div>
        </form>
      </div>
    </div>
  </div>
</div>
```

Fig 5: Code 1



The screenshot shows the Visual Studio Code interface with the file "Inward Note.html" open. The code is a template for an inward note form. It includes sections for Inward Number, Inward Date, PO Number, PO Date, and Location. The code uses Bootstrap classes like col-md-6 and col-sm-3 for layout, and form-control for input fields. This version appears to have more detailed validation or styling than Fig 5.

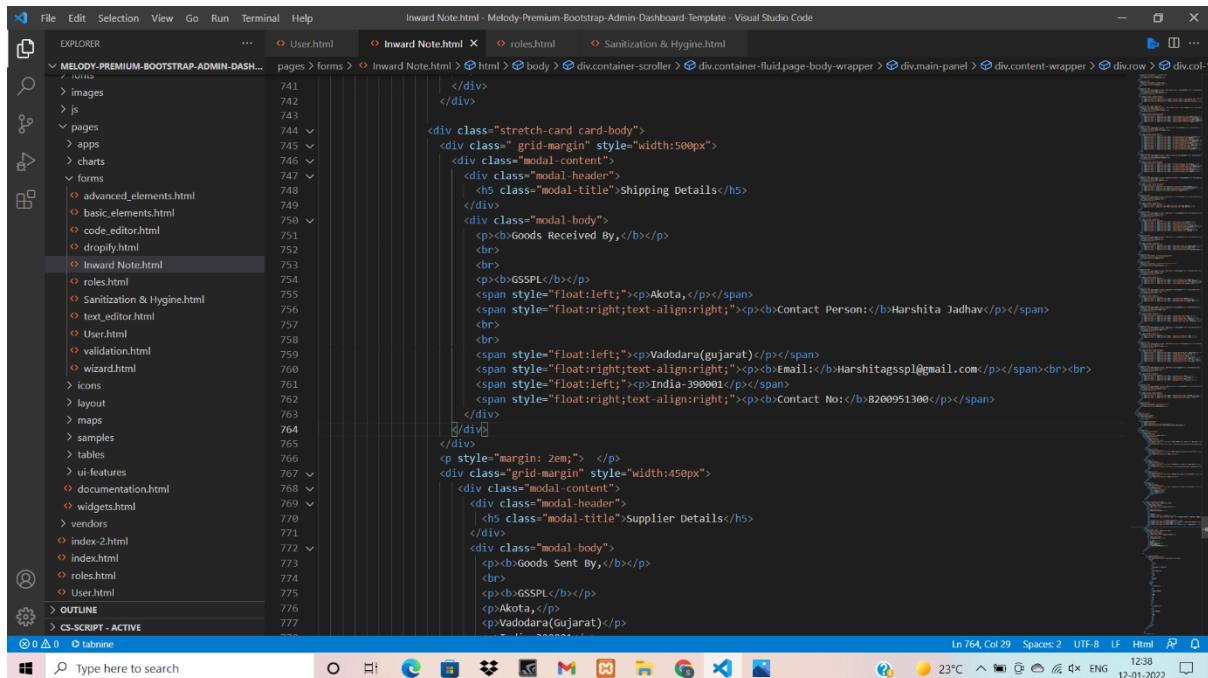
```
<div class="row">
  <div class="col-md-6">
    <div class="form-group row">
      <label class="col-sm-3 col-form-label">PO Number<span style="color: #ff0000;">*</span></label>
      <div class="col-sm-6">
        <input type="text" class="form-control" id="examplePO220201020004" placeholder="P0220201020004">
      </div>
    </div>
  <div class="col-md-6">
    <div class="form-group row">
      <label class="col-sm-3 col-form-label">PO Date<span style="color: #ff0000;">*</span></label>
      <div class="col-sm-6">
        <input type="date" id="start" name="trip-start" >
      </div>
    </div>
  </div>
</div>
<div class="row">
  <div class="col-md-6">
    <div class="form-group row">
      <label class="col-sm-3 col-form-label">Location<span style="color: #ff0000;">*</span></label>
      <div class="col-sm-6">
        <select class="form-control">
          <option>Normal</option>
          <option>Moderate</option>
          <option>High</option>
        </select>
      </div>
    </div>
  </div>
</div>
<div class="stretch-card card-body">
  <div class="grid margin" style="width:500px">
    <div class="modal-content">
      <div class="modal-header">
        <h4 class="modal-title" style="margin:0">Shipment Details</h4>
      </div>
```

Fig 6: Code 2



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Appendix 32

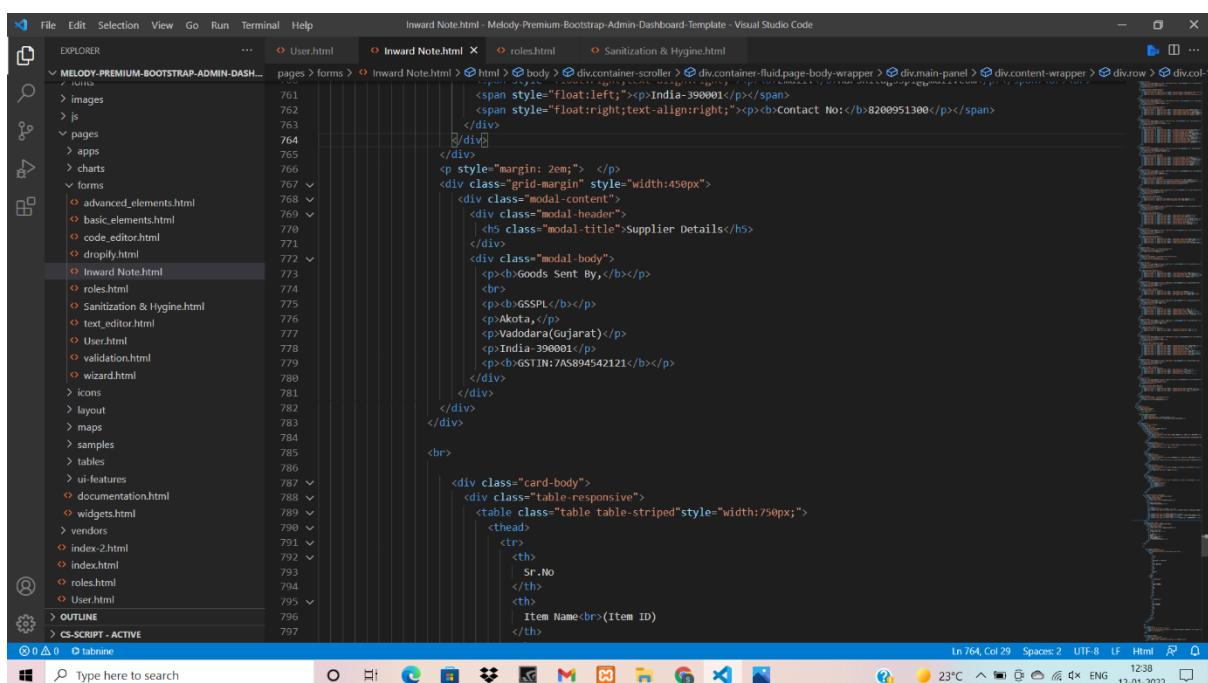


The screenshot shows the 'Inward Note.html' file in Visual Studio Code. The code is a modal dialog for shipping details. It includes fields for 'Goods Received By' (Akota), 'Contact Person' (Harshita Jadhav), 'Email' (Harshitagsspl@gmail.com), 'India' (390001), 'GSTIN' (AS894542121), and 'Contact No.' (8200951300). The code uses Bootstrap classes like 'grid-margin' and 'grid-content'.

```
<div class="stretch-card card-body">
<div class="grid-margin" style="width:500px">
<div class="modal-content">
<div class="modal-header">
<h5 class="modal-title">Shipping Details</h5>
</div>
<div class="modal-body">
<p><b>Goods Received By</b></p>
<br>
<p><b>GSSPL</b></p>
<span style="float:left;"><p>Akota,</p></span>
<span style="float:right;text-align:right;"><p><b>Contact Person:</b>Harshita Jadhav</p></span>
<br>
<br>
<span style="float:left;"><p>Vadodara(gujarat)</p></span>
<span style="float:right;text-align:right;"><p><b>Email:</b>Harshitagsspl@gmail.com</p></span><br><br>
<span style="float:left;"><p>India-390001</p></span>
<span style="float:right;text-align:right;"><p><b>Contact No:</b>8200951300</p></span>
</div>
</div>
<p style="margin: 2em;"> </p>
<div class="grid-margin" style="width:450px">
<div class="modal-content">
<div class="modal-header">
<h5 class="modal-title">Supplier Details</h5>
</div>
<div class="modal-body">
<p><b>Goods Sent By,</b></p>
<br>
<p><b>GSSPL</b></p>
<p>Akota,</p>
<p>Vadodara(gujarat)</p>
<p>India 390001</p>
<p><b>GSTIN:</b>AS894542121</p>
</div>
</div>
<br>
<div class="card-body">
<div class="table-responsive">
<table class="table table-striped" style="width:750px;">
<thead>
<tr>
<th>Sr.No</th>
<th>Item Name<br>(Item ID)</th>
</tr>

```

Fig 7: Code 3



The screenshot shows the 'Inward Note.html' file in Visual Studio Code. The code is identical to Fig 7, but it includes a table header with columns for 'Sr.No' and 'Item Name
(Item ID)'.

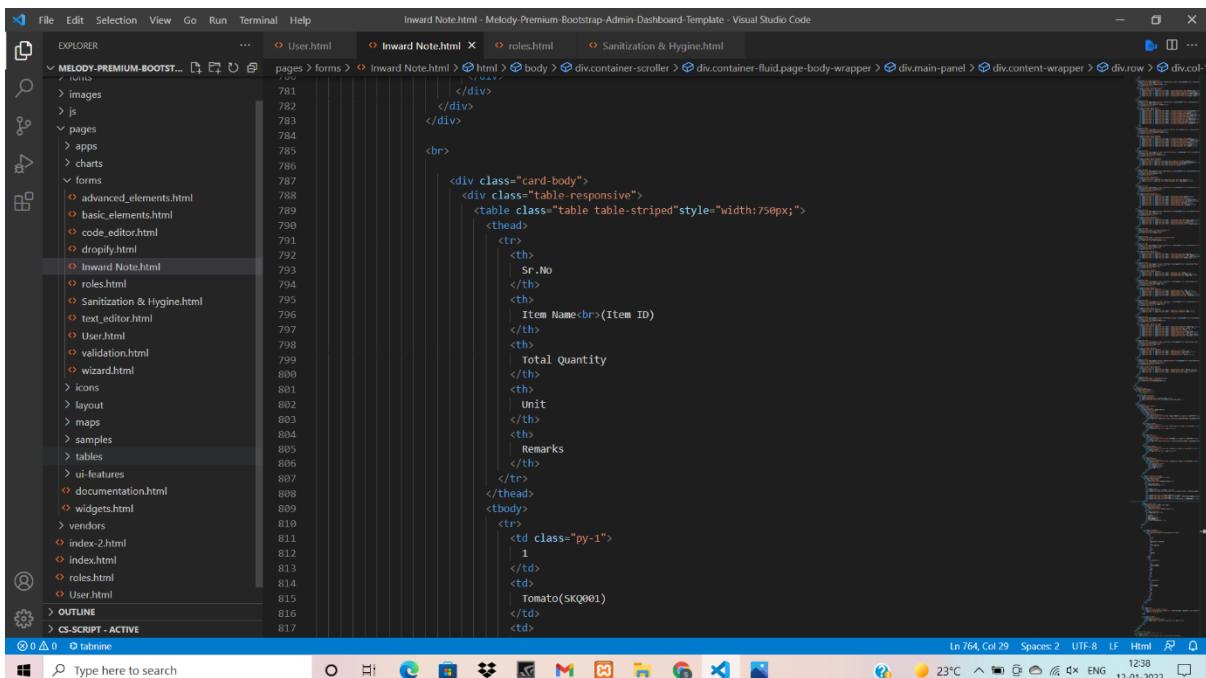
```
<thead>
<tr>
<th>Sr.No</th>
<th>Item Name<br>(Item ID)</th>
</tr>
```

Fig 8: Code 4



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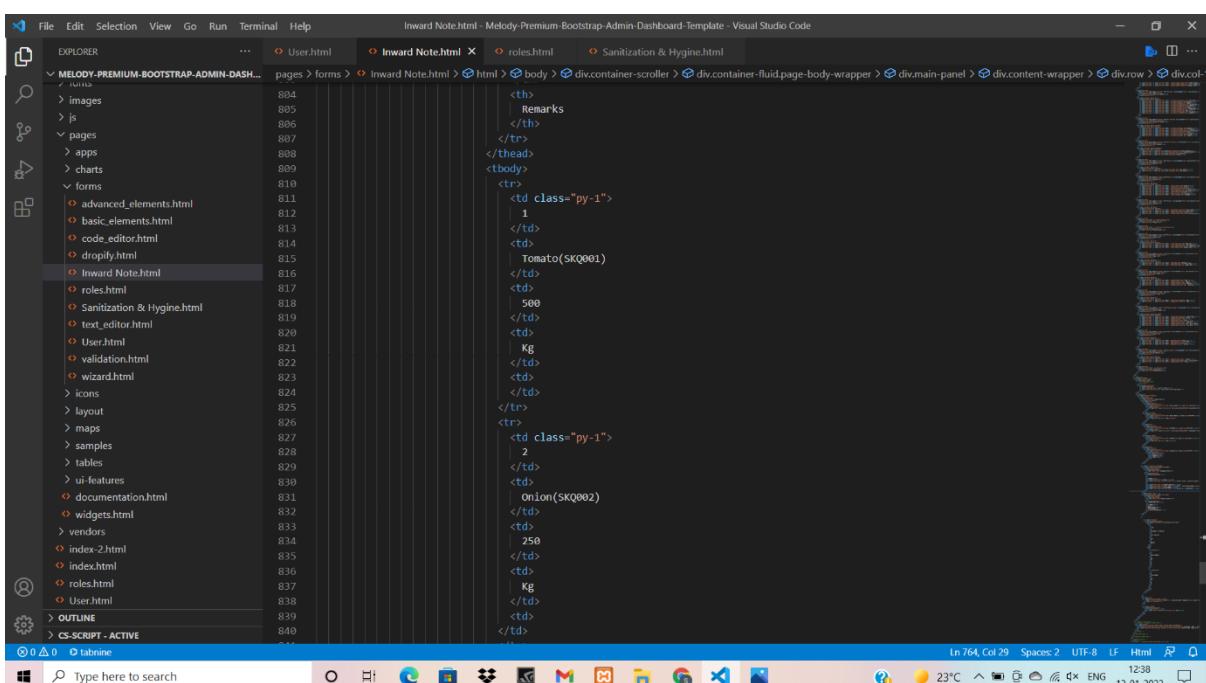
Appendix 33



```
<div class="card-body">
<div class="table-responsive">
<table class="table table-striped" style="width:750px;">
<thead>
<tr>
<th>Sr.No</th>
<th>Item Name<br>(Item ID)</th>
<th>Total Quantity</th>
<th>Unit</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td class="py-1">1</td>
<td>Tomato(SKQ001)</td>
</tr>
<tr>
<td class="py-1">2</td>
<td>Onion(SKQ002)</td>
</tr>

```

Fig 9: Code 5



```
<th>Remarks</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tomato(SKQ001)</td>
<td>Kg</td>
<td>500</td>
</tr>
<tr>
<td>Onion(SKQ002)</td>
<td>Kg</td>
<td>250</td>
</tr>

```

Fig 10: Code 6



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Appendix 34

File Edit Selection View Go Run Terminal Help Inward Note.html - Melody-Premium-Bootstrap Admin Dashboard-Template - Visual Studio Code

EXPLORER ... User.html Inward Note.html roles.html Sanitization & Hygine.html

MELODY-PREMIUM-BOOTSTRAP-ADMIN-DASH... pages > forms > Inward Note.html > html > body > div.container-scroller > div.container-fluid.page-body-wrapper > div.main-panel > div.content-wrapper > div.row > div.col

> icons 827 <td class="py-1">

> images 828 2

> js 829 </td>

> pages 830 <td>

> apps 831 | onion(SK002)

> charts 832 </td>

> forms 833 <td> 250

> advanced_elements.html 834 <td> kg

> basic_elements.html 835 <td>

> code_editor.html 836 <td>

> dropify.html 837 <td>

> Inward Note.html 838 <td>

> roles.html 839 <td>

> Sanitization & Hygine.html 840 <td>

> text_editor.html 841 <td>

> User.html 842 <td>

> validation.html 843 <td>

> wizard.html 844 <td>

> icons 845 <td>

> layout 846 <td>

> maps 847

> samples 848

> tables 849 <div class="row">

> ui-features 850 <div class="col-sm-6 col-md-4 col-lg-3">

> documentation.html 851 <div class="fa Security Guard's signature"></i>Security Guard's Signature

> widgets.html 852 <div class="fas fa-upload"></i>

> vendors 853 </div>

> index-2.html 854 </div>

> index.html 855 <div class="col-md-9">

> roles.html 856 <div class="form-group row">

> User.html 857 <label class="col-sm-9"> </label>

> OUTLINE 858 <button type="submit" class="btn btn-primary mb-2">Save</button>

> CS-SCRIPT - ACTIVE 859 </div>

0 △ 0 tabnine

Type here to search

In 764 Col 29 Spaces: 2 UTF-8 LF HTML

23°C 1238 ENG

Fig 11: Code 7

Fig 12: Code 8



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Appendix 35

Output

Forms / Inward Note

Inward Note

| | | | |
|----------------|-----------------|--------------|----------------------------------------------------|
| Inward Number* | INW220201010002 | Inward Date* | dd-mm-yyyy <input type="button" value="Calendar"/> |
| PO Number* | PO220201020004 | PO Date* | dd-mm-yyyy <input type="button" value="Calendar"/> |
| Location* | Warehouse 1 | | |

Shipping Details

Goods Received By,
GSSPL
Akota,

Contact Person: Harshita Jadhav

Supplier Details

Goods Sent By,
GSSPL
Akota,
Vadodara(Gujarat)

Fig 13: Output

| | | |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| GSSPL Akota, Vadodara(gujarat) India-390001 | Contact Person: Harshita Jadhav Email: Harshitagsspl@gmail.com Contact No: 8200951300 | GSSPL Akota, Vadodara(Gujarat) India-390001 GSTIN: 7AS894542121 |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|

| Sr.No | Item Name (Item ID) | Total Quantity | Unit | Remarks |
|-------|---------------------|----------------|------|---------|
| 1 | Tomato(SKQ001) | 500 | Kg | |
| 2 | Onion(SKQ002) | 250 | Kg | |

Security Guard's Signature*

Save

Fig 13: Output



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Appendix 36

- Corresponding Wireframe

The wireframe shows the layout of the Inward Note application. At the top, there is a header bar with the Vangi logo, the title "Inward Note", and icons for notifications and user profile. Below the header, there are input fields for "INW220201010002" (Inward ID), "PO220201020004" (Purchase Order ID), and "Location". To the right of these fields are "Inward Date" and "PO Date" with calendar icons. Under the "Shipping Details" section, it lists "Goods Received By" (GSSPL, Akota, Vadodara (Gujarat), India - 390001) and "Contact Person" (Harshita Jadhav, Email: harshita.gsspl@gmail.com, Contact No: 8200951300). Under the "Supplier Details" section, it lists "Goods Sent By" (GSSPL, Akota, Vadodara (Gujarat), India - 390001) and "GSTIN: 7AS894542121". A table below shows the received items:

| Sr. No | Item Name (Item ID) | Total Quantity | Unit | Remarks |
|--------|---------------------|----------------|------|---------|
| 1 | Tomato | 500 | Kg | |
| 2 | Onion | 250 | Kg | |

At the bottom, there is a "Security Gaurd's Signature" field with a camera icon, a "Save" button, and a "Cancel" button.

Fig 14: Wireframe



Appendix 37

3.5 Environment Used

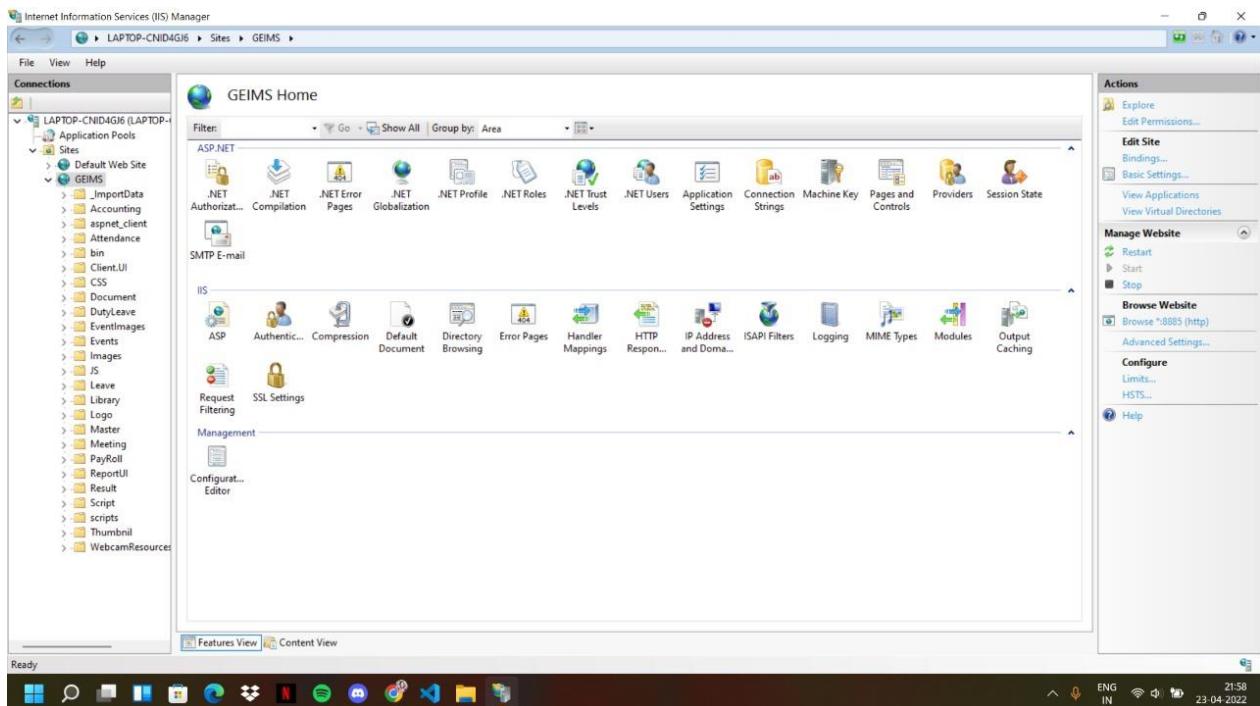


Fig 15: IIS Manager

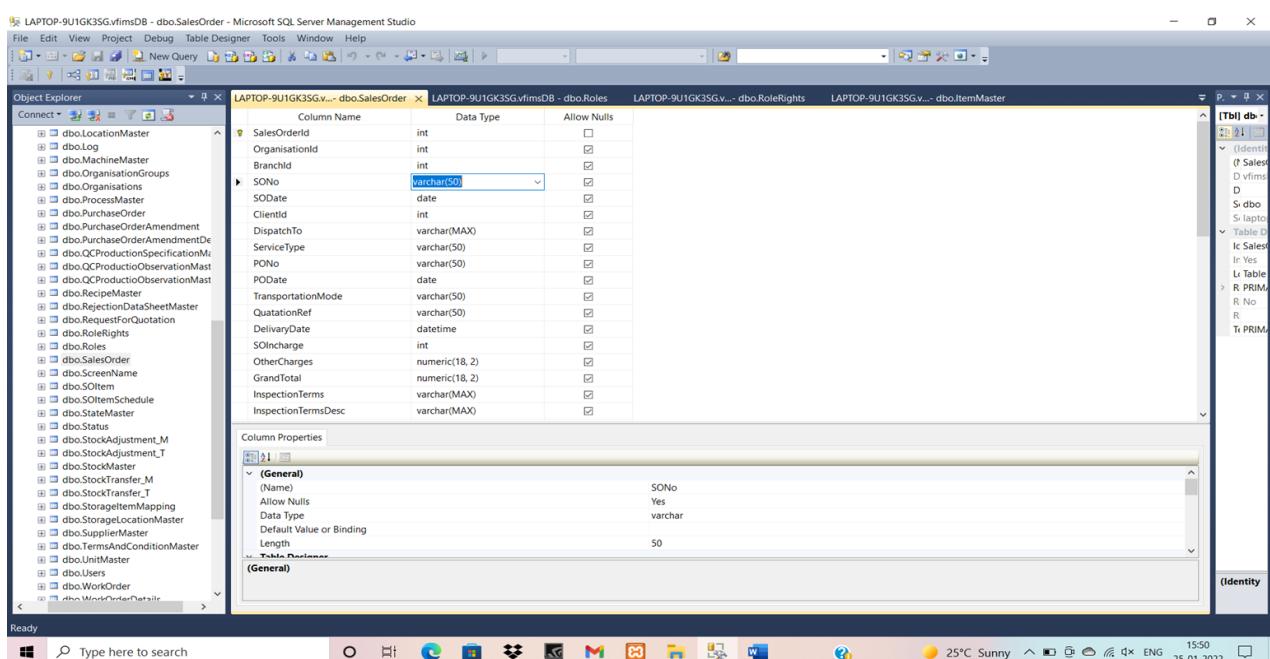


Fig 16: SQL Management Studio



Appendix 38

Chapter 4: Testing

4.1 Testing & Analysis

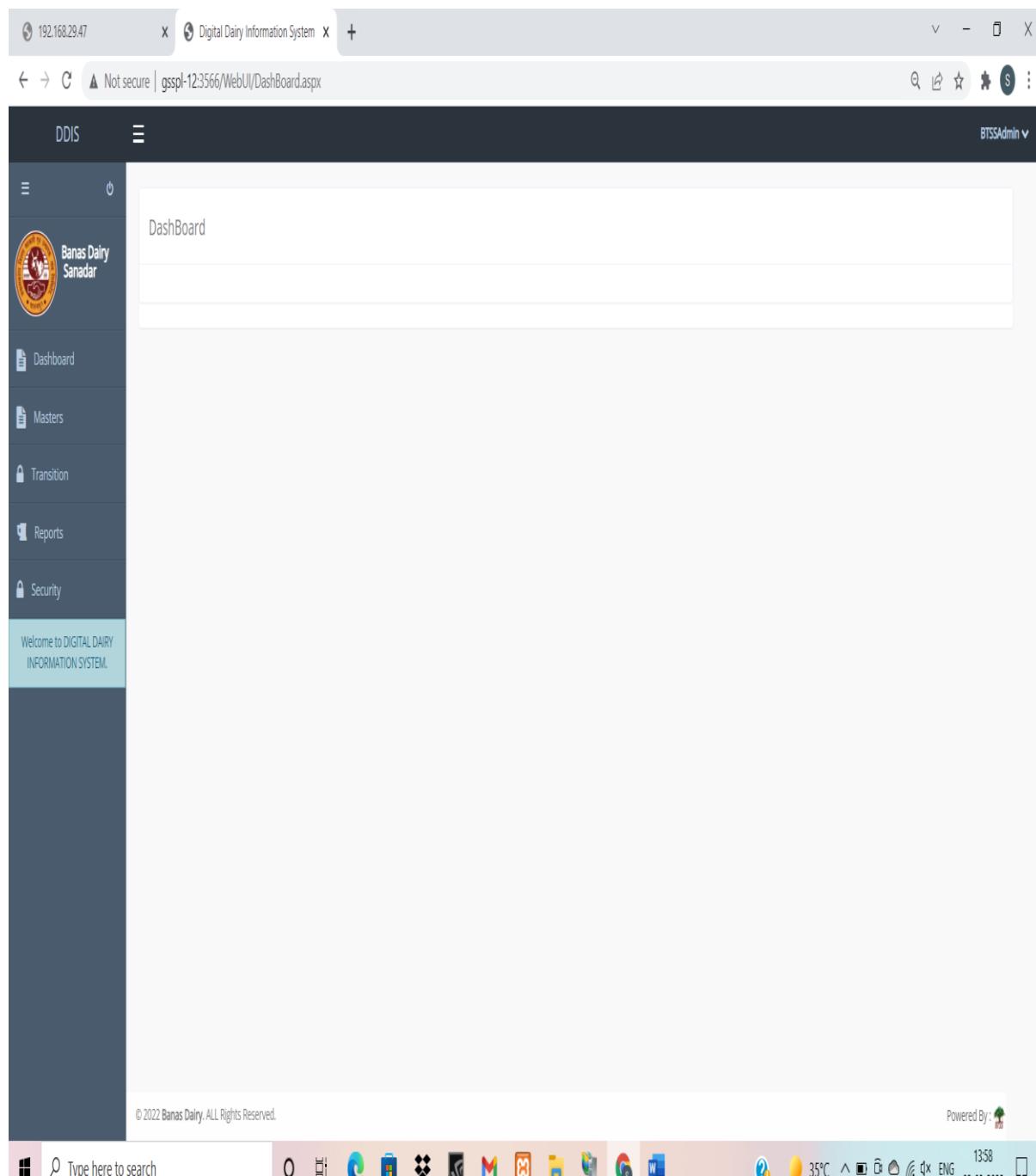


Fig 17: Dashboard



Appendix 39

4.2 Test Result

➤ List Of Bugs Found:

| A | B | C | D | E | F | G | H | I | J | K | L | M |
|-----------|--------------------------------------------------------|----------|---------|----------------------------------------------------------------------------|----------|----------|--------|-------------|---|---|---|---|
| Issue key | Priority | Severity | Summary | Description | Assignee | Reporter | Status | Closed Date | | | | |
| 23 | Milk Closing for Information | | | Compulsory mark not placed correctly | | | | | | | | |
| 24 | Summary of day wise mass balance report | | | Compulsory mark not placed correctly | | | | | | | | |
| 25 | Product dispatch Report | | | Compulsory mark not placed correctly | | | | | | | | |
| 26 | Milk and product packing report | | | Compulsory mark not placed correctly | | | | | | | | |
| 27 | Combined BMC milk tanker reception report | | | Check of the form name, Compulsory mark not placed correctly(viewing page) | | | | | | | | |
| 28 | Additional Reception/Dispatch Report | | | Page not accessible | | | | | | | | |
| 29 | Daily mass balance report | | | Page not accessible after clicking go button | | | | | | | | |
| 30 | CIP Reports | | | Compulsory mark not placed correctly | | | | | | | | |
| 31 | Process CIP and tanker CIP kitchen tanks status report | | | | | | | | | | | |
| 32 | Log Reports | | | | | | | | | | | |
| 33 | Power monitoring report | | | Compulsory mark not placed correctly | | | | | | | | |
| 34 | Pasteurizer FDV diversion report | | | Compulsory mark not placed correctly, Check the form name | | | | | | | | |
| 35 | Equipment running hours report | | | Compulsory mark not placed correctly | | | | | | | | |
| 36 | Equipment wise plant efficiency report | | | Compulsory mark not placed correctly | | | | | | | | |
| 37 | ALFAST report | | | Compulsory mark not placed correctly | | | | | | | | |
| 38 | Inventory Reports | | | Compulsory mark not placed correctly(in all forms) | | | | | | | | |
| 39 | GRN report | | | Add new-GRN status box | | | | | | | | |
| 40 | Lab | | | Add new- Text box not placed properly | | | | | | | | |
| 41 | Tanker milk analysis | | | Text box size(Time), Some entries are not allowing any inputs | | | | | | | | |
| 42 | Milk Reception | | | Compulsory mark not placed correctly | | | | | | | | |
| 43 | Silo/Tank Testing | | | Compulsory mark not placed correctly | | | | | | | | |
| 44 | Milk and | | | Compulsory mark not placed correctly | | | | | | | | |

Fig 18: Testing Output 1

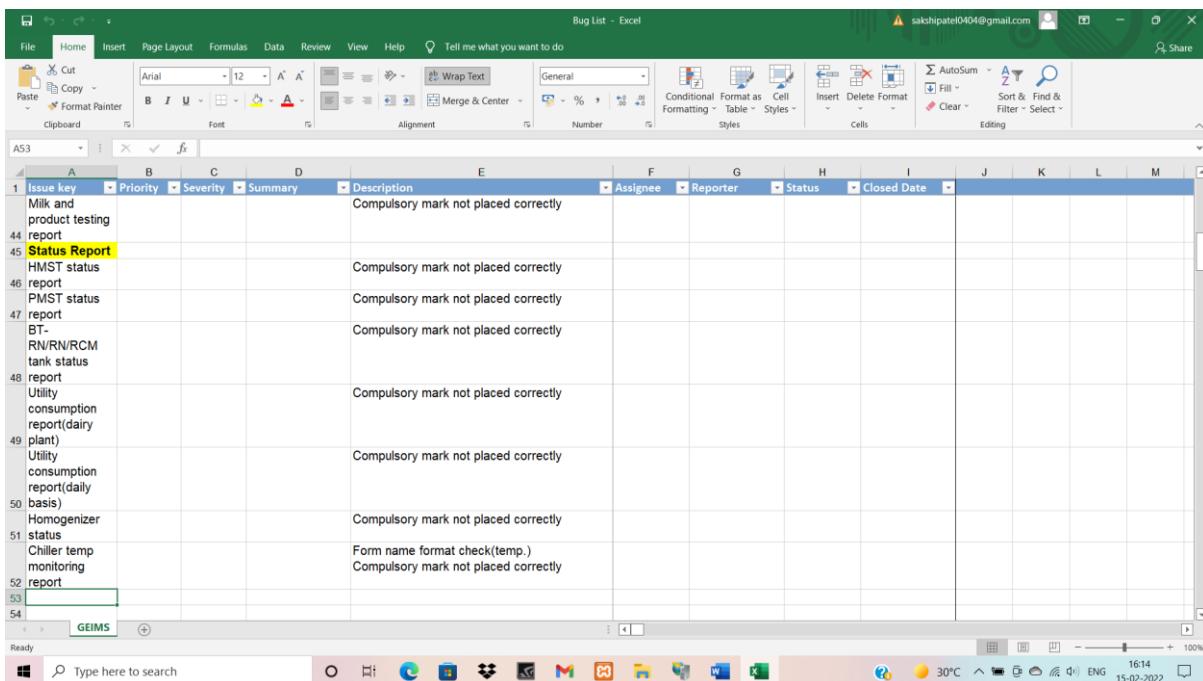
| A | B | C | D | E | F | G | H | I | J | K | L | M |
|-----------|----------------------------------------|----------|---------|---------------------------------------------------------------|----------|----------|--------|-------------|---|---|---|---|
| Issue key | Priority | Severity | Summary | Description | Assignee | Reporter | Status | Closed Date | | | | |
| 32 | Log Reports | | | Compulsory mark not placed correctly | | | | | | | | |
| 33 | Power monitoring report | | | Compulsory mark not placed correctly, Check the form name | | | | | | | | |
| 34 | Pasteurizer FDV diversion report | | | Compulsory mark not placed correctly | | | | | | | | |
| 35 | Equipment running hours report | | | Compulsory mark not placed correctly | | | | | | | | |
| 36 | Equipment wise plant efficiency report | | | Compulsory mark not placed correctly | | | | | | | | |
| 37 | ALFAST report | | | Compulsory mark not placed correctly | | | | | | | | |
| 38 | Inventory Reports | | | Compulsory mark not placed correctly(in all forms) | | | | | | | | |
| 39 | GRN report | | | Add new-GRN status box | | | | | | | | |
| 40 | Lab | | | Add new- Text box not placed properly | | | | | | | | |
| 41 | Tanker milk analysis | | | Text box size(Time), Some entries are not allowing any inputs | | | | | | | | |
| 42 | Milk Reception | | | Compulsory mark not placed correctly | | | | | | | | |
| 43 | Silo/Tank Testing | | | Compulsory mark not placed correctly | | | | | | | | |
| 44 | Milk and | | | Compulsory mark not placed correctly | | | | | | | | |

Fig 19: Testing Output 2



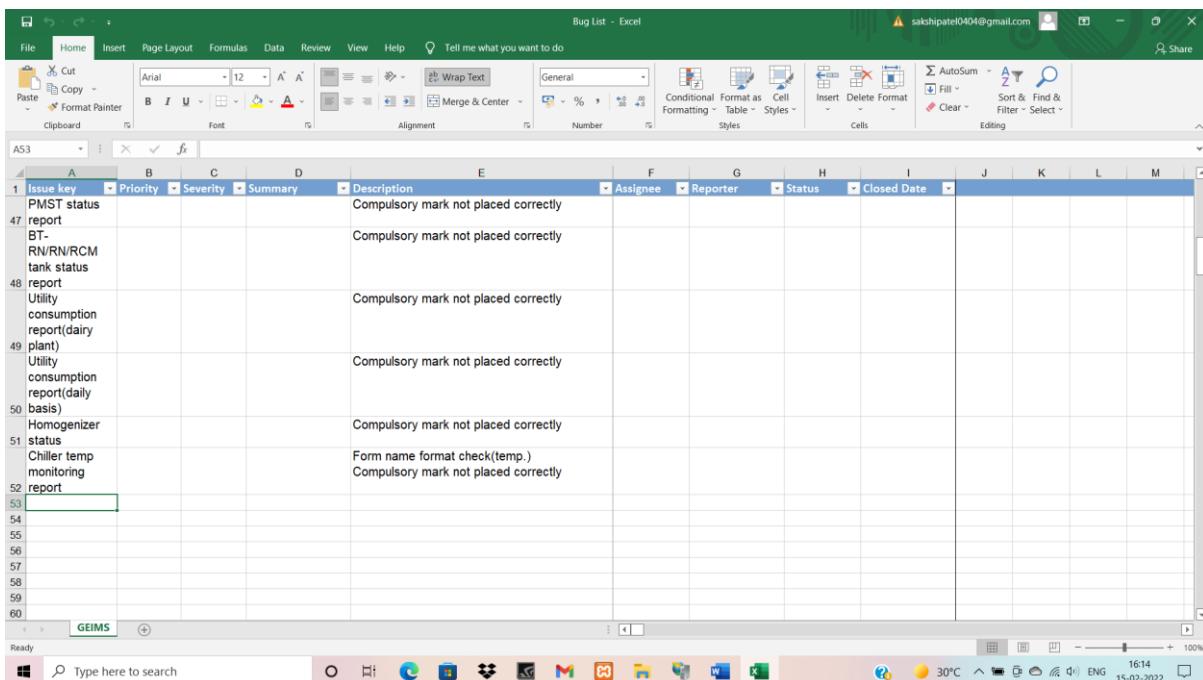
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Appendix 40



| Issue key | Priority | Severity | Summary | Description | Assignee | Reporter | Status | Closed Date |
|--------------------------------------------|----------|----------|---------|--------------------------------------|----------|----------|--------|-------------|
| Milk and product testing report | | | | Compulsory mark not placed correctly | | | | |
| 44 Status Report | | | | Compulsory mark not placed correctly | | | | |
| 45 HMST status report | | | | Compulsory mark not placed correctly | | | | |
| 46 PMST status report | | | | Compulsory mark not placed correctly | | | | |
| 47 BT-RN/RNCM tank status report | | | | Compulsory mark not placed correctly | | | | |
| 48 Utility consumption report(dairy plant) | | | | Compulsory mark not placed correctly | | | | |
| 49 Utility consumption report(daily basis) | | | | Compulsory mark not placed correctly | | | | |
| 50 Homogenizer status | | | | Compulsory mark not placed correctly | | | | |
| 51 Chiller temp monitoring report | | | | Form name format check(temp.) | | | | |
| 52 | | | | Compulsory mark not placed correctly | | | | |
| 53 | | | | | | | | |
| 54 | | | | | | | | |

Fig 20: Testing Output 3



| Issue key | Priority | Severity | Summary | Description | Assignee | Reporter | Status | Closed Date |
|--------------------------------------------|----------|----------|---------|--------------------------------------|----------|----------|--------|-------------|
| P MST status report | | | | Compulsory mark not placed correctly | | | | |
| 47 BT-RN/RNCM tank status report | | | | Compulsory mark not placed correctly | | | | |
| 48 Utility consumption report(dairy plant) | | | | Compulsory mark not placed correctly | | | | |
| 49 Utility consumption report(daily basis) | | | | Compulsory mark not placed correctly | | | | |
| 50 Homogenizer status | | | | Compulsory mark not placed correctly | | | | |
| 51 Chiller temp monitoring report | | | | Form name format check(temp.) | | | | |
| 52 | | | | Compulsory mark not placed correctly | | | | |
| 53 | | | | | | | | |
| 54 | | | | | | | | |
| 55 | | | | | | | | |
| 56 | | | | | | | | |
| 57 | | | | | | | | |
| 58 | | | | | | | | |
| 59 | | | | | | | | |
| 60 | | | | | | | | |

Fig 21: Testing Output 4



Appendix 41

Chapter 5: Conclusion

5.1 Summary of Internship

Garima System Solutions Pvt. Ltd. (GSSPL) is a fast-growing company whose core objective is to provide world class technology solutions with a touch of creativity and sincerity. They provide end to end solutions which are enduring, effective and timely, and fulfil the clients' needs and expectations. I chose this organization because I find their mission to be important and relevant to my career goals.

My role at **GSSPL** as an intern was to follow the daily routine and complete the tasks we were assigned. I worked directly with developing team, who were working on an ongoing project.

During this internship I acquired deeper knowledge concerning my technical skills. Currently HTML is a common part of web applications, and it is one of the most popular languages for web designing used by professionals worldwide. If we surf internet, we can see millions of websites designed with HTML and CSS. Indeed, I grew more independent in work and also in everyday life. I realized that I could do more things than I thought, like learning new things by myself. There are huge opportunities available for the students who want to work in this field. Many private and public organizations hire web designer for their online work and website development. With the rapid advent of online industry, the demand of web development professionals is increasing, and this has created a huge job opportunity for the aspirants in the upcoming days. Also, an experienced person in this field can also work as a freelancer; there are many online companies which provide online projects to the individuals.

During my internship experience with **GSSPL** I was able to develop my [Html, CSS, SQL_Database, Testing, Er-diagram, Use Case Diagram]. I particularly found [Html, Testing, Er-diagram, Use Case Diagram] to be useful in improving my [Web Developing skills]. Although I found [Html] to be challenging, I found it to be valuable in developing my [Coding skill].



Appendix 42

While I had many useful experiences at this company, I feel that I still need to develop my confidence levels with [Coding]. I would have enjoyed giving more time to [Web Testing]. I personally also benefited in learning some soft skills. And

moreover, what I've learned is, the importance of time-management skills and self-motivation.

In a nutshell, 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 **Garima System Solutions**. Needless to say, the technical aspects of the work I've done are not flawless and could be improved provided enough time. As someone with no prior experience with Web Development, I believe my time spent in research and discovering it was well worth it.



Appendix 43

5.2 Limitation & Future Enhancement

- **Complex to Learn:** Business software is sometimes tricky to learn. However, managers can help by investing in online training to quickly bring users up to speed.

- **Risk of System Crashes:** Software does crash. However, you can remove the risk of data and productivity loss by using cloud-based platforms.

- **Malicious Hacks:** Malicious hacks are a risk to all businesses. The Internet of Things (IoT) adds even more complexity. Cloud-based software typically has greater security than a single company would offer on its own because of the risk a breach would have on the vendor.

- **Reduced Physical Audits:** When you automate some warehouse operations, it's easy to skip a physical inventory check. Solve this by instituting regular audits.



Appendix 44

Reference

- <https://garimasystem.com/>
- <http://bootstrapdash.com/product/melody/>
- <https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver15>
- <https://themefisher.com/free-bootstrap-templates/>
- [https://www.unleashedsoftware.com/inventory-management-guide/inventory-management-systems#:~:text=An%20inventory%20management%20system%20\(or,inventory%20management%20for%20your%20business.](https://www.unleashedsoftware.com/inventory-management-guide/inventory-management-systems#:~:text=An%20inventory%20management%20system%20(or,inventory%20management%20for%20your%20business.)
- <https://www.softwaretestinghelp.com/>
- <https://drawio-app.com/>
- <http://mohamedelgendi.com/blog/how-to-write-a-use-case.html>



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