ERP SOFTWARE MANAGEMENT IN ODOO

BY

KHAZA NUMAN
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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering

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DAFFODIL INTERNATIONAL UNIVERSITY

DHAKA, BANGLADESH

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APPROVAL

This Internship titled **"ERP Software Management System in Odoo"**, submitted by **Khaza Numan**, ID No: **191-15-12918** to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on *January 2024*.

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DECLARATION

I hereby declare that I have done this internship under the supervision of **Mr. Shah Md Tanvir Siddiquee, Assistant Professor, Department of CSE** Daffodil International University. I also say that neither this project nor any part of this project has been submitted elsewhere for the award of any degree or diploma.

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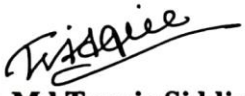

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First, I express my heartiest thanks to almighty God for His divine blessing in making it possible to complete the final year internship successfully.

I am grateful and wish my profound indebtedness to **Mr. Shah Md Tanvir Siddiquee**, **Assistant Professor**, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of my supervisor in "*Software Development*" to carry out this project. His endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts, and correcting them at all stages have made it possible to complete this project.

I would like to express my heartiest gratitude to **Dr. Sheak Rashed Haider Noori**, **Professor and Head of the Department of CSE**, for his kind help in finishing my project and to other faculty members and the CSE Department of Daffodil International University staff.

I would like to thank my entire Daffodil International University coursemates, who participated in this discussion while completing the coursework.

Lastly, I thank my parents for their unwavering patience and support.

ABSTRACT

I had to work as an intern throughout my last year of computer science and engineering in order to fulfill the requirements for my B.Sc. This report includes a summary of my work experience from my internship.

I mostly worked on Python Odoo Development during my course, following the software development life cycle. Putting the focus on analysis, my objective was to provide top-notch goods. The open-source ODOO business app package can handle all of your company's needs, including project management, inventory, CRM, eCommerce, accounting, and more. We can create a great deal of beneficial applications in this field. We can access it from anywhere in the world. It will support us in our daily endeavors. I gained insight into the inner workings of huge organizations during my internship in software development at Daffodil Software Limited, and this insight will come in handy in the near future. This report will cover all facets of my work throughout the internship. Developing software applications requires knowledgeof a few different programming languages. For example, front-end design and back- end development use dynamic movement languages like Python in addition to HTML5,CSS3, JavaScript, and the Bootstrap framework.

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CHAPTER 1:
INTRODUCTION

1.1 Introduction

I finished a four-month internship at Daffodil Software Ltd. during my undergraduate studies, where I gained valuable knowledge in the real business world and strengthened my work ethic. This internship was critical to my academic and professional development. My primary intern focus was Python Odoo development Even though I faced several obstacles along the way, my teammates' unfailing support helped me get past them. I owe the Daffodil family a great deal of thanks for providing me with this invaluable opportunity to further my education in a formal atmosphere. Participating in an internship program is a great way to get practical experience, expand your professional network, and become acquainted with business culture. An internship is required in order to graduate from Daffodil International University with a Bachelor of Science in Computer Science and Engineering. I started working as a Python Odoo developer at Daffodil Software Ltd. on January 1, 2023. I could apply my skills and experience in this new role in a fast-paced environment. I worked alongside seasoned professionals to assist in the design and customization of Odoo apps.[1]

1.2 Motivation

I wanted an internship as a computer science and engineering student because I wanted to learn a lot about the software industry and obtain real-world experience. I had a foundation in software development from my undergraduate studies, but I soon understood that I also needed to understand how these concepts connect to real-world company operations. My ambition to work for a software company was further sparked by the industry’s intense competition. I wanted to expand my skill set, get experience in software design, development, and management, and get completely immersed in an IT organization, so I signed up for the internship program. I was able to develop important skills and further my career as a software engineer through this internship. As an engineering and computer science student, my objective was to complete an internship in order to gain comprehensive knowledge and practical experience in the software industry. I had a foundation in software development from during my

undergraduate studies, but I soon understood that I also needed to understand how these concepts connect to real-world company operations. My ambition to work for a software company was further sparked by the industry's intense competition. My objectives for the internship program were to increase my knowledge base, obtain hands-on experience in software development, design, and management, and completely immerse myself in an IT firm. I was able to develop important skills and further my career as a software engineer through this internship.

1.3 Internship Objectives

This report's main goal is to give a thorough summary of my contributions and experiences from my internship at Daffodil Software Ltd. Additionally, by demonstrating the knowledge and abilities gained during the internship, this report seeks to fulfill the requirements of the B.Sc. program.

Furthermore, the specific objectives of this report include

- Describing the background and founding history of Daffodil Software Ltd.
- Outlining the responsibilities and tasks I performed within the organization
- Providing insights into team dynamics and collaboration during the internship
- Highlighting the work environment and the organizational culture at Daffodil Software Limited.
- Demonstrating the specific contributions and achievements made during the internship.
- They are sharing valuable experiences and lessons learned from the internship.

By addressing these objectives, this report aims to provide a comprehensive understanding of my internship journey at Daffodil Software Ltd..

Scope

An overview of the internship experience, including the organization's history, goals, tasks, and skills gained, is intended to be provided in this report on the internship. It will emphasize Python and Odoo programming and dealing with real-life projects. The practical experience with Python Odoo development, including knowledge of business procedures and internal product development, will be covered in the report. The paper will also look at the potential for using Python Odoo development skills in a professional setting. The paper seeks to demonstrate the value of the internship in terms of knowledge, skills, and future job chances in Python Odoo development by addressing these critical areas.[2].

Limitation

I am unable to provide vital commercial information concerning Daffodil Software Ltd.'s participation in worldwide and academic business endeavors, as well as the data it possesses about employers, students, and other parties, due to strict confidentiality agreements. Because of these confidentiality limits, I am unable to give anything that could be deemed secret. Requiring additional time and money can sometimes result in limitations. The amount of material that is addressed in detail may be limited by time constraints. However, production and the overall amount of support that can be offered are impacted by resource constraints, especially those pertaining to finances and staffing. I also regret any restrictions on my ability to give thorough analysis and precise information resulting from resource limitations and confidentiality concerns.

1.4 Introduction to the company:

Since its founding in 2002, Daffodil Software Ltd. has continuously delivered cutting-edge solutions and accelerated digital transformation, making it a trailblazing force in the tech industry. Based in Bangladesh, Daffodil Software Ltd. provides custom software services. Its development and support office is located in Kuala Lumpur, Malaysia. Our knowledge encompasses various domains, including systems integration, hardware management, and software development. Throughout our many projects, our skilled team of specialists has worked with a broad range of platforms,

languages, and technologies. A publicly traded company is Daffodil Software Ltd. Daffodil Software Ltd. is a software development and website design company.

Business Function:

Daffodil Software Ltd. is a website design and software development company.

Membership:

A member of the Bangladesh Association of Software and Information Services (BASIS) is Daffodil Software Ltd.

Mission, Vision, and Motto:

Encouraging innovation and improving performance is the aim of the solution. Launching the software revolution, revolutionizing the workplace, and establishing a new standard for business to better people's lives. Making a business profitable and introducing goods and services to the world market are the ultimate goals.

Departments:

- Software Development Team
- Website Development Team
- After Sales Service Team
- Business Development Team.
- Telemarketing Team
- Management.

Services:

Daffodil Software Ltd. offers the following services to its clients:

- Software Testing.
- Software Customization.
- Web and e-commerce.
- Graphics and animation
- Apps Development.

- Digital Marketing.
- IT Consultancy,
- Training and other services

Product:

Daffodil Software Ltd. offers a range of products designed to meet your specific business requirements:

- eCure Healthcare Management.
- Business Management (Business ERP)
- School and college ERP
- Payroll and income tax
- University ERP.
- Library Management.
- Job Tracking System
- Others software.

Solution:

Daffodil Software Ltd. provides various solutions to meet your specific business needs. Here are a few instances:

- Single-card answers
- Online television
- Online Radio

Area of Expertise:

Website development, email marketing, SMS marketing, graphic design, software testing, and software development.

1.5 Report Layout:

The several chapters and their goals make up the report's structure. I've added several chapters, together with their titles, page numbers, and a succinct synopsis, to this report style.

Chapter 1:

I've covered the overview and purpose of this internship in this chapter. Additionally, my internship company has been introduced to me. I've talked about my objectives for web design and development as well as the languages I'll need for my internship.

Chapter 2:

This chapter contains my discussion of my organization. where they stand in the marketplace. Their roles in the employment program and the various IT services they provide.

Chapter 3:

I discussed assignments, projects, and activities in chapter three.

Chapter 4:

Describe the plans I made, the skills i acquired, and how they reflected my career.

Chapter 5:

I finished up discussing my future plans for my career and what I will want to achieve in the future.

CHAPTER 2:
ORGANIZATION

2.1 Introduction:

The Bangladesh-based custom software services company Daffodil Software Ltd. maintains development and support operations in Bangladesh, the United States, the United Kingdom, Kuala Lumpur, Bahrain, and Malaysia. They have a great deal of experience in systems integration, hardware management, and software development, among other different fields. Throughout our several projects, their skilled team of specialists has worked with a variety of platforms, languages, and technologies.

Ever since its founding in 2002, Daffodil Software Ltd. has been a trailblazer in the technology sector, constantly bringing cutting-edge solutions and promoting digital transformation. It belongs to the Bangladesh Association of Information Services and Software (BASIS).

This company's goal is to offer a solution that boosts performance and encourages innovation.

The department comprises the following groups: management, business development, sales services, website, software, and marketing development.

Working Environment:

Success in the workplace is a function of the environment in which we work. This place has a nice, inviting atmosphere. All of my coworkers are friendly and kind. Everybody has their own place of business. Everything we require to finish our task is here in the workplace.

Rules & Regulation:

Employees at Daffodil Software Ltd. are expected to adhere to a specific set of rules while on the job. Although it is possible for employees to unintentionally violate these standards, this can have a detrimental effect on the productivity of their colleagues.

Flexibility:

Daffodil Software Ltd. has a strict code of ethics. As long as violating a guideline doesn't harm other individuals or the project they're working on, there usually aren't any consequences.

Semiformal Attitude:

It is encouraged for employees to treat one another with kindness and respect. You can dress in semi-formal clothing if your staff doesn't deal with clients. Nonetheless, if you collaborate with outside organizations in a group setting, you ought to dress professionally.

Office Schedule:

There is a lot of freedom in the working hours for employees. They ought to report for duty at 10:00 AM and depart no later than eight hours. Employees are permitted to pause for lunch, prayer, and snacks during the day. Employees are entitled to request a leave of absence if they require time off, which is not essential to their job. Additionally, workers may work from home if necessary.

Responsibilities:

Every individual is accountable for their work and obligations. Other essential duties include being cautious when using tools and equipment to prevent damaging office property and reporting a profound loss or damage to company property right away, observing others' right to privacy,, and only handling their belongings with consent.

2.2 Product and Market Situation:

Daffodil Software Ltd offers

- Software testing,
- Software Customization
- Web and e-commerce

- Graphics and animation
- Apps development
- Digital Marketing
- IT Consultancy
- Business ERP, School & College ERP, University ERP.
- Payroll & Income Tax
- Library Management
- Job Tracking & Training System
- Other Software & Services

2.3 Target Group:

Daffodil Software Ltd. trains and develops industry-stander skilled individuals from final-year undergraduate students. Their primary goal is to provide IT-based goods for online marketplace participants, such as software, mobile applications, company ERP, and web applications. They make every effort to satisfy their customers' needs and provide high-quality, easily navigable items. For those that are interested, they provide training courses in web and mobile application development. It takes more than just one area of competence to get a job. It calls for you to analyze key circumstances and involve a large number of people.

2.4 SWOT Analysis:

Advantages, disadvantages, opportunities, and dangers analysis is a framework for creating strategic planning and assessing a company's competitive situation. SWOT analysis evaluates possibilities for the future as well as internal and external influences. The job market is this company's strongest suit. They have good developers who are hard- working and have enough time. The software developer of this company is highly trained and professional. In addition, the website developer is excellent in HTML, CSS, React JS, Bootstrap and Python Django. The trainer I met was friendly and shared knowledge with me and other interns.

2.5 Organizational Structure:

- Chairman
- Managing Director
- Head of Software
- General Manager
- Business Development Manager
- Business Development Manager
- Asst. Manager (Business Development)
- Chief Technology Officer (CTO)

CHAPTER 3:
TASK, PROJECT AND ACTIVITIES

3.1 Daily Task and Activities:

I had various responsibilities and assignments during my internship. Initially, I familiarized myself with the coding strategy and design process by reading relevant literature. Once I completed the module creation, I was assigned the task of getting requirements. Afterward, I was allowed to develop a specific module, where I received requirements and worked on various tasks for the project. Additionally, I was responsible for updating and resolving issues, allowing me some free time to learn about Odoo.

As a part of my learning experience, I dedicated time to studying Python and Odoo software, and I completed a small project during this learning phase. I was tasked with deploying a particular project.

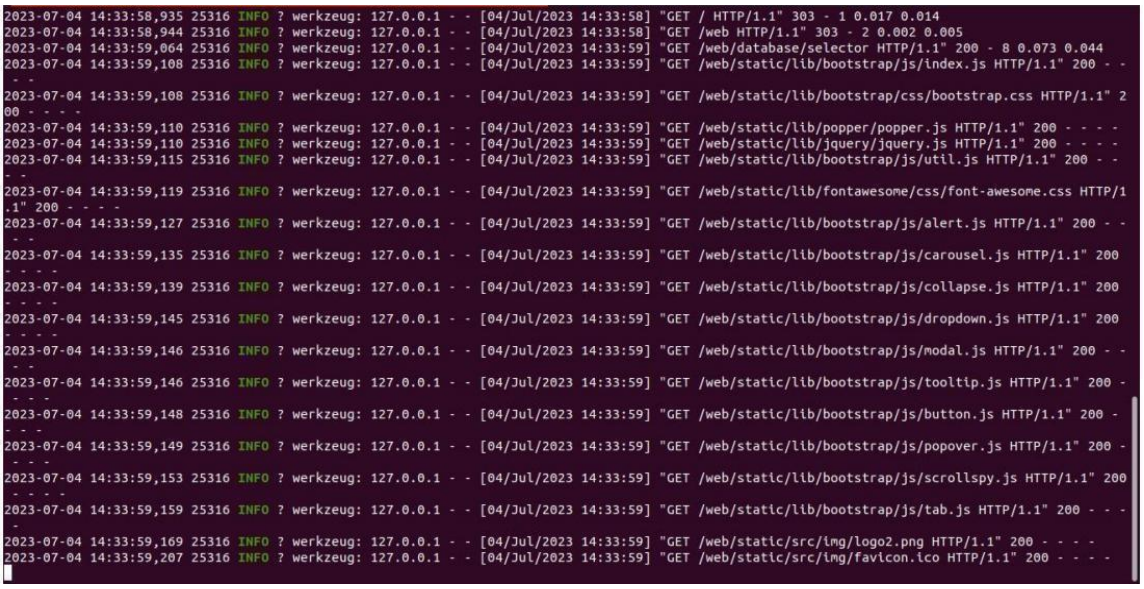

Figure 3.1.1 Ubuntu Server

3.2 Events and Activities:

During my internship, I had a range of duties and tasks. I started by reading pertinent literature to become familiar with the coding technique and design process. Upon finishing my investigation, I was tasked with gathering requirements. I had to complete

6 hours and attend 6 days a week at my workplace. I had to start from 10 am to 6 pm. During my internship, I had to participate in many training programs. They are mainly related to web designing, developing, and verifying databases. I took part in a seminar where I learned how to odoo module deployment in a server and file creating a system in the module. I was given several tasks, such as shortening SQL and merging tables with others.

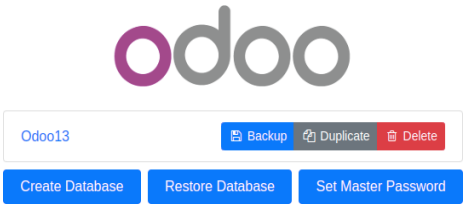

Figure 3.2.1

3.3 Project Task and Activities:

- **Requirement gathering and analysis:**
  Gather Business needs, meet with stakeholders, and analyze requirements for the system. Create a document with recommendations for the next phase.

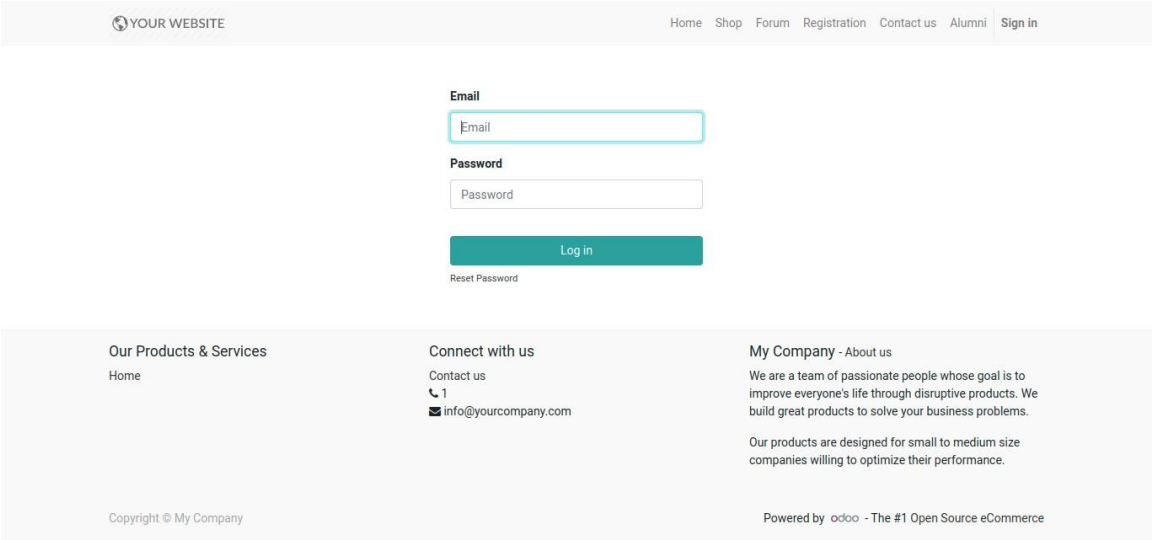

Figure 3.3.1 : Login

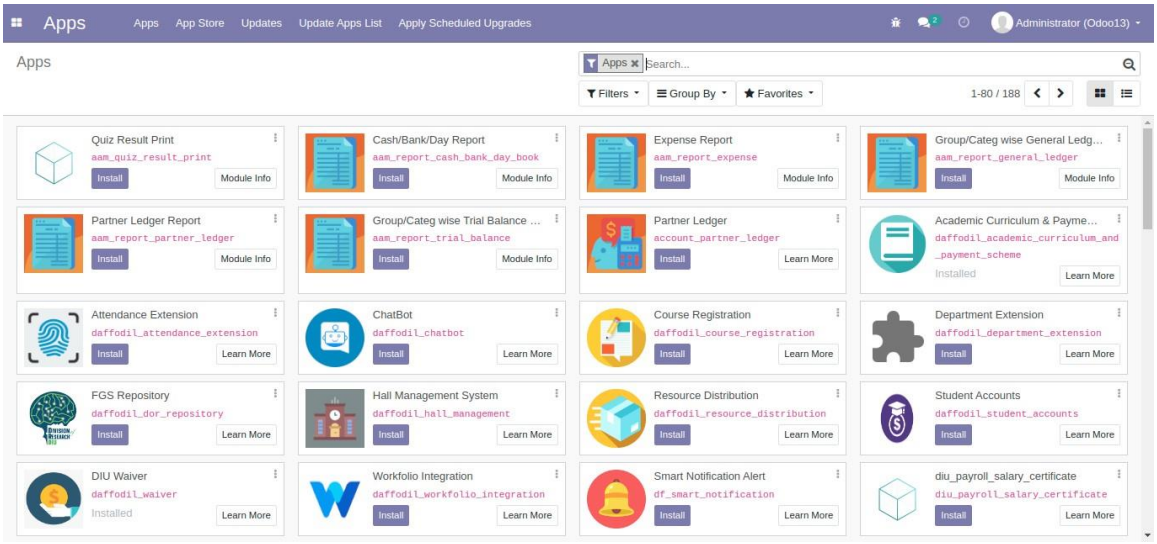

Figure 3.3.1 : Overview

- **Design:**

  Use the criteria from the web page step to design the system and software. Determine hardware, system requirements, and overall architecture. testers create test strategies, while the designer provides suggestions.

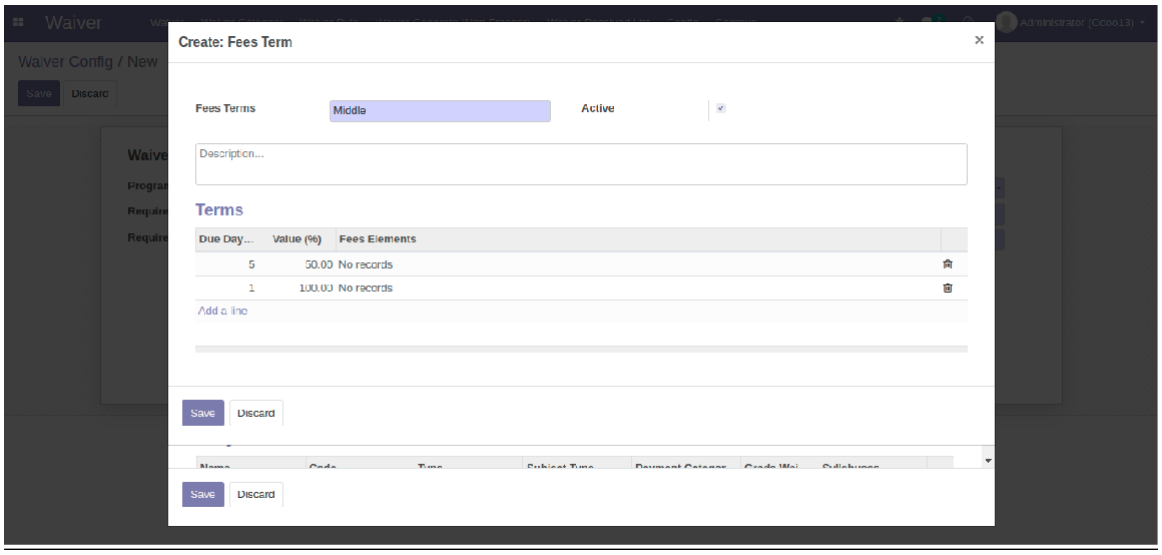

Figure 3.3.2 : Module Design

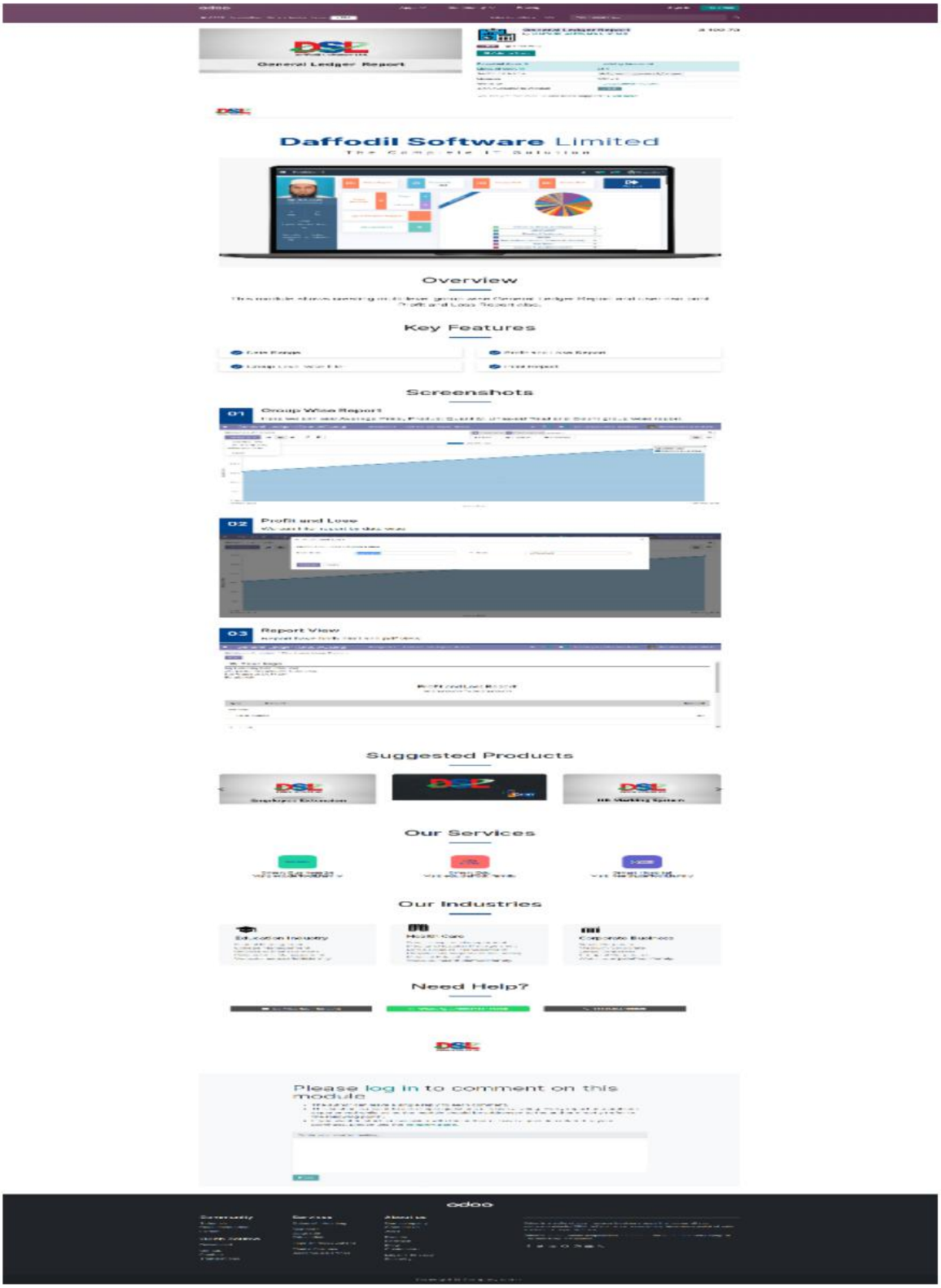

Figure 3.3.3 : Webpage

- **Implementation:**

  Divide the task into smaller parts and start coding. Software engineers focus on writing the code during this phase.

- **Testing:**

  Test the code against the requirements to ensure it solves the intended problem. This phase includes functional and non-functional testing, unit, integration, system, and acceptance tests.

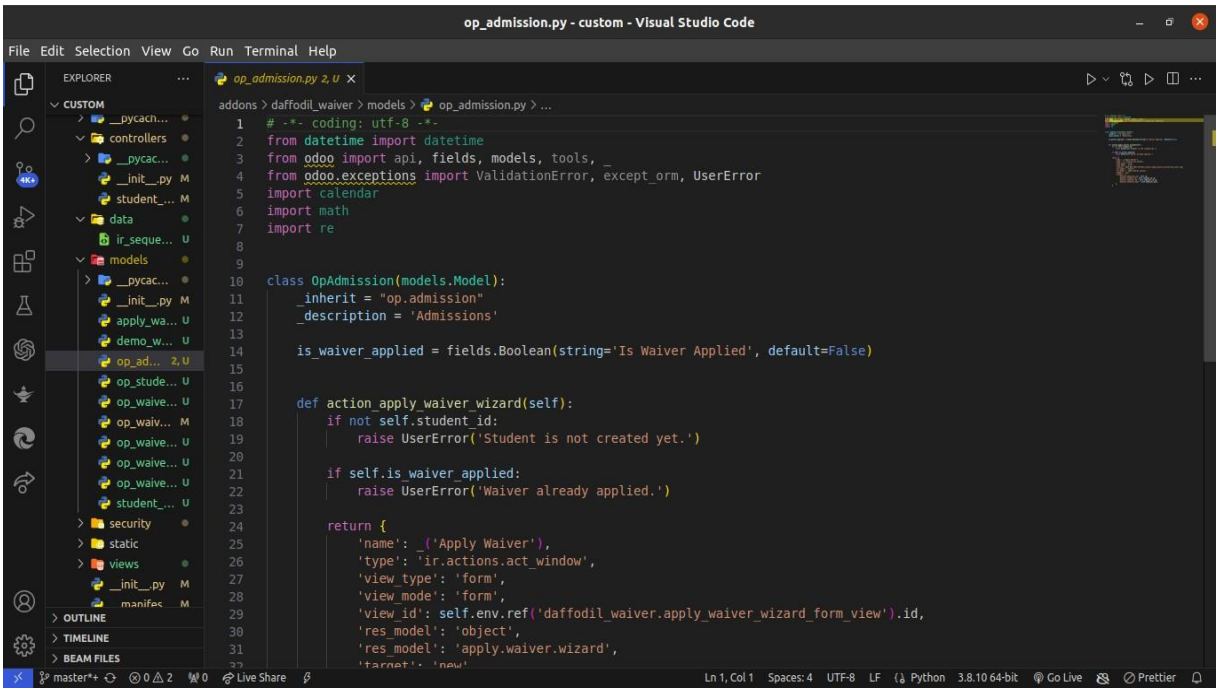

Figure 3.3.4 : Code

- **Deployment:**

  After successful testing, the application is prepared for release. It is deployed to production servers or app stores for users to access. Additional user testing may be included, depending on the client's agreement.

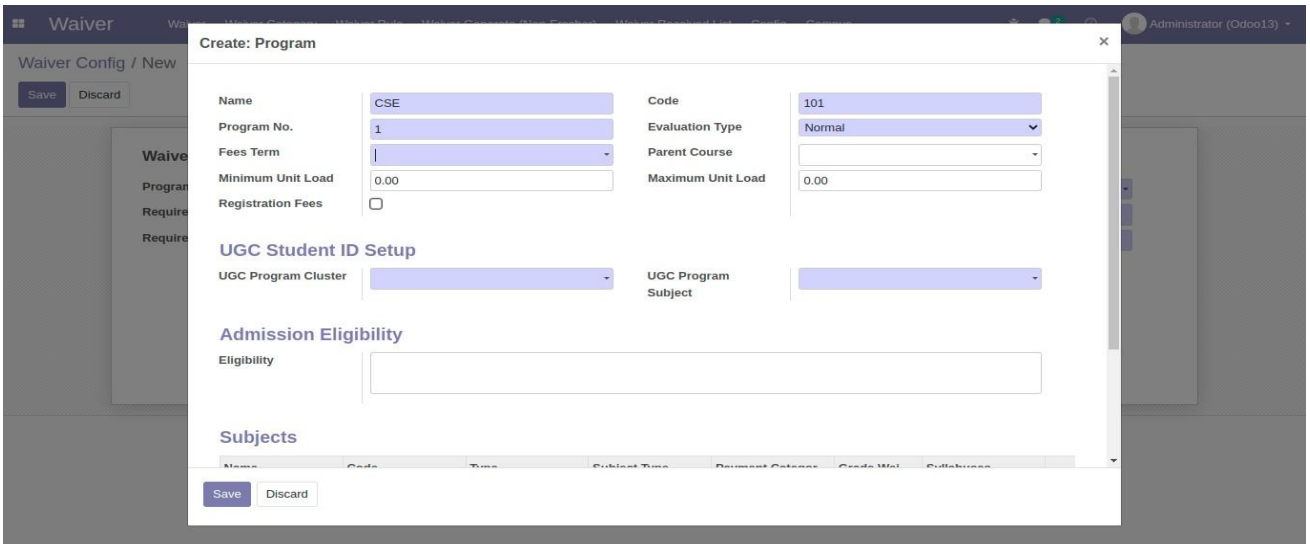

Figure 3.3.5 : Table

- **Maintenance:**

  Once users use the system, issues arise and must be resolved periodically. Maintenance involves taking care of the developed product and its ongoing support. The duration of this phase depends on the client's agreement.

3.4 Challenges:

This internship was really a challenge for me. Since I am doing an internship and doing different work in different modules. I had to do many things like creating a template, creating icons, web page design. This internship was very challenging for me because I had a lot to do, which I had never heard of before. I got help from Google, GitHub and other counselors and seniors. Therefore, It was challenging for me to perform for the first time as an intern in this company and I really learned a lot and I appreciate the company. I was trying to do better, but still, I found myself in a position where my part could have been more appreciated.

CHAPTER 4:
COMPETENCIES AND SMART PLAN

4.1 Competencies Earned

In this internship, I have gained a lot of knowledge like website creation and change, changing XML code using Bootstrap Odoo framework and Python for backend,creating dynamic websites, creating front pages and connecting databases. Working with different websites from cPanel, creating an offline server with developer mode in Ubuntu.

4.2 Smart Plan

This Internship has opened up many opportunities for me. I learned a lot from the environment, which would be helpful for me from my point of view. I have gained a lot of soft skills like good communication, time management and teamwork.

Gain a professional network from the beginning of the internship. I will build relationships with people who advise and help me on important issues.

4.3 Reflections:

Working under supervision showed me how the chain of command functions, and an internship provided me with insight into how a company is run. I gained knowledge on how to hone interpersonal abilities like collaboration, public speaking, attention to detail, timeliness, and communication during my DSL internship. I gained knowledge in responsive design using Bootstrap HTML, CSS, and JavaScript. I also studied Python and MySQL for backend development. I am capable of developing dynamic websites, designing pages, and making templates. As a result, I gained knowledge of front-end and back-end framework usage.

CHAPTER 5:
CONCLUSION & FUTURE PLAN

5.1 Discussion and Conclusion:

My report was created for the Odoo Module development project. My report is targeted to give a basic concept of software development literature, and it also discusses the main part that will be used in the project. This report examines many problems created when building a new model. This internship has opened up many opportunities for me. I learned a lot from the environment, which would be helpful for me from my point of view. I have gained much knowledge in website design, odoo module development, and deployment into live server creation and change.

5.2 Scope For Further Career:

An internship is a period of work experience an organization offers for a limited time. Therefore, it is considered as work experience. I have gained real-life experience and exposure. That is why I will start a promising career with the experience of this internship. This is the golden time of technology. Everything is going online day by day. The more people learn online, the more they need online platform creation and maintenance. Therefore, working as a web developer is a good decision, and there are many opportunities to work on this platform. In the flourishing software industry, the demand for software engineering is rapidly increasing alongside the exponential growth of the internet. Given this trend, my experience in the software engineering sector opens up promising prospects. Daffodil Software Ltd. is dedicated to expanding its workforce and offers training opportunities. This presents an excellent chance for me to excel in my role and make significant strides in my career.

5.3 Company Detail:

Based in Bangladesh, Daffodil Software Ltd. provides custom software services. Its development and support office is located in Kuala Lumpur, Malaysia. They have great experience in systems integration, hardware management, and software development, among other fields. Their skilled team of experts has worked on several projects using a variety of platforms, languages, and tools. Since its founding in 2002, Daffodil Software Ltd. has been a trailblazer in the technology sector, consistently producing cutting-edge solutions and promoting digital transformation. It's an Open Company. Daffodil Software Ltd is a website design and software development firm.

Membership:

Daffodil Software Ltd is a member of the Bangladesh Association of Software and Information Services (BASIS).

Mission:

The goal is to offer a solution that stimulates creativity and raises performance.

Vision:

To pioneer the software revolution, define the workplace, and establish a new paradigm for businesses to improve people's lives. The ultimate goal is to introduce our goods and services to the global market.

Departments:

- Software Development Team
- Website Development Team
- After Sales Service Team
- Business Development Team

- Tele Marketing Team
- Management

Services:

- Software Testing
- Software Customization
- Web and e-Commerce
- Graphics and Animation
- Apps Development
- Digital Marketing
- IT Consultancy
- Training
- Other Services

Products:

Daffodil Software Ltd. offers a range of products that are designed to meet your specific business requirements. Here are some examples:

- eCure
- Business ERP
- School & College ERP
- Payroll and Income Tax
- University ERP
- Library Management
- Job Tracking System

Solution:

Daffodil Software Ltd. provides various solutions to meet your specific business needs. Here are a few examples:

- One Card Solutions
- Internet TV
- Internet Radio

Area of Expertise:

Website creation, software testing, graphic design, email and SMS marketing, and software development.

Market Coverage:

Bangladesh, USA, UK, Malaysia, Bahrain.

Head Office:

DF Tower (Level: 5)

House # 11, Road # 14,

Dhanmondi, Dhaka-1209, Bangladesh

Phone: +88029116600

Cell: +8801713493107

Email: software@daffodil-bd.com

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2. https://www.linkedin.com/company/daffodil-software-limited-dsl-/about/ last access nov 1, 9:00pm
3. https://www.facebook.com/daffodilsoft/ last access nov 2, 5:00pm
4. https://www.youtube.com/channel/UClqFA9QZ4EdsoARRJ62QFvQ last access nov 3, 10:00am
5. https://www.youtube.com/channel/UClqFA9QZ4EdsoARRJ62QFvQ last access nov 3, 10:00am
6. https://chat.openai.com/ last access nov 3, 10:00am
7. https://www.bing.com/chat last access nov 4, 10:00am
8. https://apps.odoo.com/apps/modules/browse?author=Daffodil%20Software%20Limited last access nov 4, 10:00

ERP Software Management in Odoo

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