**University Of Computer Studies (Mandalay)**

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**INTERNSHIP REPORT**

**Myanmar DCR Co.,Ltd**

**(Yangon)**

**Submitted By**

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**Fifth Year B. C. Sc.**

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both directly and indirectly—have been immensely helpful throughout the internship and the preparation of this report. Their support has been invaluable in the successful completion of this project.

**Abstract**

With the aim of fulfilling the academic requirement of 2021-2022 academic year , I accomplished my three-month internship program at Micro Services Myanmar IT Solution which is located at 4thfloor Hotel Sincere Smile, Thingangyun Township, Yangon, Myanmar. During internship period, I had gained valuable insight into the software industry and had the chance to obverse numerous aspects of business ideas and management and learn new technologies and working environment.

In my conclusion internship at Micro Services Myanmar was so productive with practical hand on skills attained from the different field supervisors. I submitted this report not only for the academic requirement but also for distributing my knowledge and experience that I had gained during three months to the readers and juniors in order to be easy and understand for their internship preparation.

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**1. A brief introduction of the organization’s business sector**

Myanmar’s economy is currently experiencing a significant transformation as the country embraces the digital era, creating opportunities for rapid growth driven by technological innovation. The Information and Communication Technology (ICT) sector in Myanmar is gradually developing, though it remains in its early stages compared to neighboring countries. This growth is fueled by increasing awareness of the benefits that digital tools can bring to productivity and business operations across multiple industries.

At present, the Myanmar ICT market is largely dominated by hardware sales and distribution, which represent around half of the sector’s activity. Other segments such as training, software development, trading, web and internet services, and network maintenance make up smaller portions of the market. This distribution reflects the relatively low penetration of advanced ICT solutions in many local businesses and industries.

The software development industry is still emerging, with early adoption mainly seen in financial services, where institutions are upgrading to more secure and innovative systems. Additionally, sectors like trade and tourism utilize IT solutions primarily in larger enterprises, including airlines and international hotel chains. However, major sectors such as agriculture, manufacturing, education, and healthcare continue to rely heavily on traditional methods and limited technology, which constrains their efficiency and growth.

As Myanmar’s economy diversifies and modernizes, the demand for customized software applications and comprehensive enterprise solutions is expected to grow, supporting improved operational efficiency and competitiveness.

Moreover, Myanmar is becoming an attractive destination for offshore software development and IT outsourcing, thanks to its young, increasingly skilled workforce and competitive labor costs. Favorable government policies and investment incentives further enhance the country’s appeal as a hub for technology-related services.

In summary, Myanmar’s ICT sector presents promising potential for expansion as infrastructure develops and digital adoption increases, offering substantial opportunities for businesses operating locally and internationally.

**2. Overview of the Myanmar DCR Co., Ltd.**

Myanmar DCR Co., Ltd. is a 100% Japanese-invested IT company located in Yangon, Myanmar, offering high-quality IT services to both local and international markets. The company specializes in application software development, mobile app development, web creation and maintenance, system integration services, network services, and business process outsourcing (BTO). With a team of professional engineers, project managers, and coordinators, Myanmar DCR aims to serve as a bridge between Myanmar and Japan by delivering reliable, innovative, and efficient IT solutions that support digital transformation for various business sectors.

**2.1 Brief History**

Myanmar DCR Co., Ltd. was officially established on 14th July 2008 in Yangon as a fully Japanese-owned IT company. Since its founding, the company has continuously provided services to Japanese clients and global partners while contributing to Myanmar’s IT industry development. Led by Managing Director Mr. Makoto Kondo and other Japanese executives, the company is also a member of the Japanese Chamber of Commerce and Industry, Myanmar (JCCM). Its mission is to contribute to global digital growth by combining Japanese quality standards with Myanmar's skilled workforce.

**2.2 Business size**

As of now, Myanmar DCR has over 60 employees, including software engineers, project managers, quality assurance specialists, and network engineers. The company is led by:

* Managing Director: Mr. Makoto Kondo
* Director: Mr. Nobukazu Ikegaya
* General Manager: Mr. Ito Norio

With a growing workforce, the company provides a professional environment that fosters teamwork, technical learning, and collaboration between Myanmar and Japan.

**2.3 Product Line**

**2.3.1 Services**

As a private sector IT company, Myanmar DCR Co., Ltd. offers a complete range of digital services tailored for both local and international clients. These services include application software development for business systems, mobile app development for Android and iOS platforms, website creation and maintenance, and system integration services to connect and manage complex IT infrastructures. The company also provides network services for secure and efficient data communication, and Business Process Outsourcing (BPO) to support back-office operations. By delivering end-to-end IT solutions, Myanmar DCR supports clients in achieving operational efficiency and digital transformation.

**2.3.2 Technologies**

* Web Design

Macromedia Dreamweaver

Macromedia Fireworks

HTML, CSS

* Programming
* ASP,Net
* C#.Net
* VB.Net
* Java Servlet
* Strut1, Strut2
* PHP
* Android
* Ruby
* Silverlight
* Database
* Microsoft Access
* MySQL
* SQL Server
* Oracle
* DB2
* Server
* Networking Basic
* Linux Basic

**2.4 Competitors**

**2.5 Brief summary of all departments**

**Web Development with PHP**

At web development department, they teach Web Development with PHP Foundation Course. This course has both theoretical knowledge and practical use of PHP Procedural, Functional PHP, MySQL, OOP, JSON and AJAX.

**Web Development with JavaScript**

At web development department, they teach Web Development with PHP Foundation Course. This course has both theoretical knowledge and practical use of JavaScript Basic, JavaScript ES 5/6, Vue.js, Express, Mongo DB, Restful APIs.

**Web Design**

At web design department, they teach Web Design Course. This course has both theoretical knowledge and practical use of JavaScript, HTML5, CSS & CSS3, JQuery, Bootstrap and WordPress.

**3. Plan of internship program**

I served as an intern in Development team in Micro Service Myanmar. Senior and junior developers in development team works for error handling and fixing , software version upgrading and developing new software products. Senior developers divided many groups to make projects. I assigned to Travel and Tour Agency. I’d trained and worked my project at Micro Services Myanmar. I’d been trained and learned a lot of modern technology in that place about one and a half of months. And I’d learned some new technology during project.

This internship program is started in June 10, 2020 and accomplished in August 27, 2020 after submitting the assigned duties. At Software Development, I was learning developing and testing our intern assignment project for the whole internship period. To get knowledge in real world project, I was performed as a training with senior form development team for the project **Tour And Travel Agency** which is to provide enjoyable quality excursions/trips on time and on budget. And this **Tour And Travel Agency** provides and effective solutions for user to plan, manage and schedule their tours according to their requirements and demands.

**4. Training program**

During Internship period, the company divides three options such as Development with PHP, Development with JavaScript and Web design in order to choose based on their personal interests and skills. I choose development with PHP. After, I assigned to Tour and Travel Agency.

Firstly, I install required Microsoft Visual Studio and Postgresql required for this project. I needed to learn the project thoroughly so that the detail functions and process of the Human Resource Management System project was clearly understood and known. All members in my team discussed about process and functions included in this project. After discuss this function , write documentation detail for design and function included in this project. Team leaders in my team also helped me to understand the working process and business background of the software and explained intensively in somewhere I couldn’t understand well. This project had been developed by using visual php programming languages. For the system implementation and using Microsoft SQL Server 2014 for database management and administration . Since both of these two

technologies are those that I had never learnt before, I needed to learn them firstly. So, I tried to learn php firstly in the first week and I believed that it made me improve my self-study skills. And I installed the required software and packages such as Visual Studio Code 2019, Xampp control panel version 3.2.4 in order to run and test php tutorial and exercises.

I gain worthy experiences from Micro Services Myanmar. I was assigned to involve in **“Tour and Travel Agency”** project. I learnt web development and architecture and API structure, business thinking logics, server deployment, team communication and many other performing as interns.

I achieved to creative design thinking and personal communications skill to communicate client. In user interfaces (UI) point of view, the screen or layout which the user vibes to the system is actually attraction and impressive. And then, in user experience (UX) point of view, the layout or design of project is easy to use and is not complex for vendor.

**4.1 Usage Tools**

**4.1.1 Microsoft Visual Studio**

Microsoft Visual Studio is a comprehensive Integrated Development Environment (IDE) developed by Microsoft. It serves as a central hub for software development, allowing developers to write, edit, debug, and build various types of applications.

**4.1.2 PostgreSQL**

PostgreSQL, often referred to as Postgres, is a powerful, open-source object-relational database management system (ORDBMS). It is known for its strong reputation for reliability, data integrity, and robust feature set, making it a popular choice for a wide range of applications, from web and mobile to geospatial and analytics.

**4.1.3 Github**

GitHub is a cloud-based platform for software development and version control, primarily utilizing Git, an open-source distributed version control system. It provides a centralized location for developers to store, manage, and collaborate on code projects.

**4.1.3 Draw.io**

Draw.io is a free, online diagramming tool that allows you to create flowcharts, diagrams, mind maps, organisation charts, and much more.

**4.2 Duties and responsibilities performed**

My duties and responsibilities in first month are to learn php needed for project. Sir Naing Myint Htet teaches us about PHP before we start our project. And the next day, the project leader assigns work for each team members and discuss about the enhancement of the project. There was a milestone plan in my team for each month and needed to reach the monthly target in the plan. I found that my team was facing some problems and delays for reaching the target. So, I learnt web design in parallel in order to help my team.

Moreover , everyday is the day to test the whole project and report the finding errors and misleading behaviors of the software to the project leader. Before this day, all repaired works and codes from each team member are integrated into the server machine and share the updated version of the software. And then, we made presentation and shared knowledge to each others. I carried out established activities and any additional responsibilities which are mutually agreed upon by the all of the us and site supervisor, fullfilled l agreed upon time commitments and conducted oneself in a responsible and professional manner.

**5. Learning Experiences**

**5.1 Knowledge acquired**

This is my first time working with a company. I got a lot of knowledge and experiences from my internship. I’d learnt a lot of modern technology that are mostly demand and use in most software company. Firstly, the most important experiences for being a part of a team.

And I’d learnt the best way to communicate in the real development society. Sometimes, I have to dismiss our emotion when I was working with the others. I also got knowledge about how to plan our project, how to manage our tasks, and how should I penetrate our products in the market. So, of course I also got some knowledge about marketing and project management.

**5.2 Skills learned**

During my internship, I gained management, adaptability, initiative and receptiveness skills from my workplace. I used to organize my time and produce results by prioritizing my responsibilities and recognizing when it’s appropriate to multitask or focus on one particular project at a time. I was also able to adapt with the living style of an employee in Yangon and got the sense of adapting from the student life to a worker life.

The first and the most important thing that I’d learnt is the way to working with a team and being as a part of that team. No matter which position we take, every single one the team is important and responsible for our project. So, I think this is the most important and responsibility for our project. So, I think this is the most important and necessary in every development. I always have meeting at the first day of every week. I explain about our tasks from last week and discuss for the next task. I am sure myself that I got a lot of progress in communication with other people.

I know better than before in my intern that I am the only one responsible for my tasks and I’d learnt that I’ve to take responsible for Observed attitudes and gained values.

**5.3 Observed attitudes and gained Values**

In my training program, I found that most of the employees in the company were hard working and they came the office early and returned home lately. They work independently without relying on each other and I perceived that it is the ideal attitude to be a good developer. The employees are mostly optimistic and it is the key to communicate with others and release the tension and pressure. Most of them do self-motivation by discovering what motivates them and what incites them to take actions to change the unpleasant situation. Besides, they have enthusiasm over the work in that willing to receive jobs, learn new things and observe the results and it is important for a successful career. Respect, confidentiality and loyalty are also needed for building a good career path.

**5.4The most challenging task performed**

The whole internship program is challenging for me because of working environment, and being assigned to work with unfamiliar programming languages and techniques. All the required technologies that is used in the project are new to me and all are challenging. I tried to learn php language first by running and testing various tutorials that are necessary to include in the project.

Moreover, communication is one of my internship challenges that can actually hinder my internship time. In some situation, I found it difficult to ask questions for the fear of being judged.

**6. Strength, Weakness, Opportunities, Threats (SWOT) Analysis**

**6.1 Strengths**

* Latest Technology.
* Customer Service skills.
* Creative Problem Solving skills
* A lot of expertise available.
* Family-type working environment.
* Strong leadership.
* Experience with multiple customers.
* Excellent client service.
* Strong relationship with existing clients.

**6.2 Weakness**

* Weak network infrastructures and supports
* Lots of catch up necessary in preservation of an internship place. ∙
* Depend on existing marketplace.
* Too much trainees in web development class.
* Can’t see clearly the lecture screen at the back of the class. ∙
* Offices are not enough.
* Too much Specialized Jobs

**6.3 Opportunity**

* Technology is understood.
* Requirements are very well known.
* Implementation of technology and websites in government sector. ∙ Can offer many job opportunities for computer students which can improve their company’s number of technical expertise.
* Offshore projects from Japan offices.
* Several expertise in the technology department can be tapped for consultation and learning.
* Many relationships with vendors that could be turned into partnerships for further learning and of first job acquisition.
* On projects which have lengthy development schedules.
* On project with new technology.

**6.4 Threats**

* + A competitor has a new, innovative service.
  + Negative feedback in social networks.
  + Customer’s reaction on price policy.
  + A lot of competitors in the market with similar services.
  + Pressure to reduce costs or face taxation.
  + Chance of making a mistake.
  + Emerging of new technology.
  + Growing competition fromnearby public institute and small training course. ∙ Poor scheduling with no time allocation. This Makes it hard for interns to balance between the internship program and other activities like college activities and part time jobs.

**7. Problem Identification and Solution**

The internship is not exactly what students expected it to be. There are problems and difficulties from both sides of the interns and the company. For the interns from Micro Services Myanmar, three-month long internship period was a great challenge for most of us. There are also consequences of the problem identification and recommendations to be solved for future internship programs in Micro Services Myanmar.

From the side of company, there are so many staffs compared to the ratios of the tasks Micro Services Myanmar. So during my internship period, all the staffs and internship coordinators cannot pay attention to the specific internship program. There are also difficulties in touch with the internship coordinators. The staffs have the mindsets that they need to keep interns happy in three months rather than to make interns improve in problem-solving and real-life experiences.

Moreover, the number of interns was about 150 students form the various universities. And the period of internship is also different as a result, the trainers get busy with trainings repeatedly in additional to their daily tasks. They cannot give full attention on the interns and also the interns do not catch up the experiences as they expected. The intern cannot be able to contribute to the development knowledge in specific fields.

From the side of interns, there are problem we have encountered during our internship so far. For 2 months from June to July, there is no enough works assigned for me and it is embarrassing to admit repeatedly that I have nothing to do during my internship.

In Micro Services Myanmar, the interns are all required to participate in an intern final project according to the request of the universities.

The next problem encountered in Micro Services Myanmar is communication between interns and internship coordinators. Because of the number if interns, the coordinators cannot focus on the students and sometimes they did not even give any attention. They did not care about the attendance of the interns, they did not have any

training in some days, and they did not manage the interns systematically.

**8. Conclusion**

This three-month internship offers me a hands-on opportunity to work in software industry. I knew how my course of study applies to the real world and build a valuable experience in software development. It offers me the chance to learn by doing in a setting where I am supervised by a work-place professional and have the opportunity to achieve my own learning goals. It also offers me the opportunity to work with someone who can become a mentor for me - not only in the internship but throughout your career.

Moreover, I had a chance to learn new skills and add to my knowledge base while gaining confidence in my abilities. Internship provides me an opportunity to practice communication and teamwork skills. I also gain industry knowledge first hand from an organization and professionals. Then, it provided the evidence that I have initiative, am reliable, and have a sense of responsibility. I could apply some of the ideas learned in school and provide a bridge between school and the professional world and I achieved a sense of accomplishment by contributing to the organization.

Besides, I met new people and practiced networking skills while establishing a network of professional contacts, mentors, and references. Especially, it opened the door to advice on the next steps to take on my career path. And it is my good luck to receive a full-time job offer at the end of my internship.

**9. Appendices**

**Appendix A. Internship Weekly Log**

Company: Micro Services Myanmar

Department: Development Team

Project: **Tour and Travel Agency**

Project Supervisor: U Htun Lin Aung (developer)

Period: From (10-June-2020) To (27-August-2020)

**1st Weekly Log – From (11 June 2021) To (14 June 2022)**

|  |  |
| --- | --- |
| **Date** | **Description about Task assigned** |
| 11.6.2020 | -Going Micro Services Myanmar Office and introduce myself  -Choose my interesting language, PHP |
| 12.6.2020 | -Started learning PHP language  -Installed PHP storm, Sublime text or Visual Studio Code, Xampp |
| 13.6.2020 | -Off day |
| 14.6.2020 | -Off day |

**2nd Weekly Log – From (15 June 2020) To (21 June 2020)**

|  |  |
| --- | --- |
| **Date** | **Description about Task assigned** |
| 15.6.2020 | -Started learning basic PHP pure lessons |
| 16.6.2020 | -Learned more PHP basic lessons, array, looping, operation, variable and function |
| 17.6.2020 | -Learned PHP pure lesson with bootstrap and create database from xampp server |
| 18.6.2020 | -Meet other university students and group with them to write projects |
| 19.6.2020 | -Meet with my team and discuss about our project how to run |
| 20.6.2020 | -Off day |
| 21.6.2020 | -Off day |

**3rd Weekly Log – From (22 June 2020) To (28 June 2020)**

|  |  |
| --- | --- |
| **Date** | **Description about Task assigned** |
| 22.6.2020 | -Learned more about PHP crud in database |
| 23.6.2020 | -Learned how to create, update, delete with PHP |
| 24.6.2020 | -Learned how to upload video and image files with PHP |
| 25.6.2020 | -download ckeditor5 and studied how to work ckeditor5 |
| 26.6.2020 | -Learned return all PHP pure lessons |
| 27.6.2020 | -Off day |
| 28.6.2020 | -Off day |

**4th Weekly Log – From (29 June 2020) To (5 July 2020)**

|  |  |
| --- | --- |
| **Date** | **Description about Task assigned** |
| 29.6.2020 | -Knew about OOP  -Learned about OOP basic lessons |
| 30.6.2020 | -Learned how to connect with database in OOP |
| 1.7.2020 | -Learned OOP crud lessons |
| 2.7.2020 | -Learned more about OOP crud lessons |
| 3.7.2020 | -My group presentation and learned the detail of OOP |
| 4.7.2020 | -Off day |
| 5.7.2020 | -Off day |

**5th Weekly Log – From (6 July 2020) To (12 July 2020)**

|  |  |
| --- | --- |
| **Date** | **Description about Task assigned** |
| 6.7.2020 | -Introduce to Laravel (PHP framework)  -Download and set up Laravel with Composer and set up Git |
| 7.7.2020 | -Learned how to connect with database in OOP |
| 8.7.2020 | -Learned three main parts of Laravel Framework (view, controller ,model) |
| 9.7.2020 | -Learned how to connect with database in Laravel |
| 10.7.2020 | -Learned more detail about Laravel Framework lessons |
| 11.7.2020 | -Off day |
| 12.7.2020 | -Off day |

**6th Weekly Log – From (13 July 2020) To (19 July 2020)**

|  |  |
| --- | --- |
| **Date** | **Description about Task assigned** |
| 13.7.2020 | -Revision of Laravel |
| 14.7.2020 | -Learned how to connect with database in OOP |
| 15.7.2020 | -Learned the detail of Laravel |
| 16.7.2020 | -Revision learned how to connect with database in Laravel |
| 17.7.2020 | -Download node.js and installation |
| 18.7.2020 | -Off day |
| 19.7.2020 | -Off day |

**7th Weekly Log - From (20 July 2020) To (26 July 2020)**

|  |  |
| --- | --- |
| **Date** | **Description about Task assigned** |
| 20.7.2020 | -Off day |
| 21.7.2020 | -Student registration project with OOP(mini project) |
| 22.7.2020 | -Presented our group project |
| 23.7.2020 | -Learned new Laravel project |
| 24.7.2020 | -Learned new Laravel project with database |
| 25.7.2020 | -Off day |
| 26.7.2020 | -Off day |

**8th Weekly Log – From (27 July 2020) To (2 August 2020)**

|  |  |
| --- | --- |
| **Date** | **Description about Task assigned** |
| 27.7.2020 | -Introduce JavaScript in Laravel new project |
| 28.7.2020 | -Started with Laraveles6 project with json |
| 29.7.2020 | -Learned Laravel mini project with json |
| 30.7.2020 | -Learned Laravel mini project with json |
| 31.7.2020 | -Off day |
| 1.8.2020 | -Off day |
| 2.8.2020 | -Off day |

**9th Weekly Log – From (3 August 2020) To (9 August 2020)**

|  |  |
| --- | --- |
| **Date** | **Description about Task assigned** |
| 3.8.2020 | -Off day |
| 4.8.2020 | -Group Presentation |
| 5.8.2020 | -Meet with supervisor for our project |
| 6.8.2020 | -Discuss for project |
| 7.8.2020 | -Start the part of admin in our project |
| 8.8.2020 | -Off day |
| 9.8.2020 | -Off day |

**10th Weekly Log – From (10 August 2020) To (16 August 2020)**

|  |  |
| --- | --- |
| **Date** | **Description about Task assigned** |
| 10.8.2020 | -Start User Interface design |
| 11.8.2020 | -Connect with database, Add, retrieve data |
| 12.8.2020 | -Make controller, model and blade PHP file for UI |
| 13.8.2020 | -Make controller, model and blade PHP file for UI |
| 14.8.2020 | -Make controller, model and blade PHP file for UI |
| 15.8.2020 | -Off day |
| 16.8.2020 | -Off day |

**11th Weekly Log – From (17 August 2020) To (23 August 2020)**

|  |  |
| --- | --- |
| **Date** | **Description about Task assigned** |
| 17.8.2020 | -Doing our project |
| 18.8.2020 | -Doing our project with Laravel |
| 19.8.2020 | -Presentation of our project |
| 20.8.2020 | -Doing our project and learned laraveles6 detail |
| 21.8.2020 | -Doing our project |
| 22.8.2020 | -Off day |
| 23.8.2020 | -Off day |

**12th Weekly Log – From (24 August 2020) To (28 August 2020)**

|  |  |
| --- | --- |
| **Date** | **Description about Task assigned** |
| 24.8.2020 | -Present project to supervisor and discuss with supervisor |
| 25.8.2020 | -Discuss with supervisor and moderate project |
| 26.8.2020 | -Moderate project |
| 27.8.2020 | -Finish project |
| 28.8.2020 | -Present project to supervisor & discuss with supervisor and finish project |

**Appendix B. Scanned copy of the Internship Certificate.**

Certificate

Product Line

Our internship project focused on the development of a Human Resource Management System (HRMS) that provides role-based login and custom dashboards for Employees, HR personnel, and Department Heads. The system was built using C# (.NET WinForms) and PostgreSQL, following the MVC and Repository architecture. It includes the following major components:

* Login Form with Role-Based Access: Users log in using their employee ID and password. Based on their role (Employee, HR, or Department Head), they are redirected to the appropriate dashboard with permissions specific to their role.
* Employee Dashboard: After logging in, employees access a personal dashboard that includes:
  + Attendance: Check-in and check-out functionality; view attendance by selecting a month.
  + Request Leave: Submit leave requests with date range and leave type.
  + View Leave: See the status of submitted leave requests.
  + View Profile: Display employee’s personal and job-related information.
  + Change Password: Allows password update for secure access.
  + Report: View monthly attendance summary.
  + Holiday Calendar: Displays a yearly calendar with public holidays, weekends (Saturdays and Sundays), and weekdays (Monday to Friday).
  + Logout: Securely exits the system.
* Head Dashboard: Designed for department heads to manage and monitor their team. Key features include:
  + Attendance:
    - My Attendance Tab: Department Head can check in/out and view their own attendance records.
    - Employee's Daily Attendance Tab: View attendance data of employees in their department for a selected date.
    - Employee's Monthly Attendance Tab: View monthly attendance data for each employee in their department.
* My Leave:
  + - Leave Request Tab: Allows the Department Head to submit personal leave requests.
    - View Requested Leave Tab: Enables the Department Head to view and update the status or details of their own leave requests.
* Employee’s Leave:
  + Daily Leave Tab: Allows the Department Head to view leave

details of employees in their department for a selected date.

* Monthly Leave Tab: View and update leave records of each employee in the department for a selected month.
* Request Leave Tab: Submit leave requests on behalf of employees in the department.
* View Employee: Allows the Department Head to view a list of employees in their department, along with their status (active or inactive).