MINISTRY OF SCIENCE AND TECHNOLOGY

UNIVERSITY OF COMPUTER STUDIES (MANDALAY)

INTERNSHIP REPORT

D.I.S Technology Co.,Ltd

(Yangon)

Submitted By

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Acknowledgement

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Abstract

To fulfill the academic requirements for the 2024–2025 academic year, I completed a three-month internship at D.I.S Technology Co., Ltd. (Yangon), located at No (131), KanNar Road, Thanlyin, Yangon. During this internship, I gained practical exposure to the software development industry by working closely with the company's development team.

My primary responsibilities involved developing and maintaining web applications using C#, .NET Core MVC, and MSSQL. This hands-on experience enabled me to apply theoretical knowledge acquired at university in a real-world setting, while enhancing my programming skills and understanding of the software development lifecycle.

Throughout the internship, I improved both my technical competencies and professional skills, including teamwork, problem-solving, and communication. This opportunity was invaluable in preparing me for a future career in software development.

In conclusion, my internship at D.I.S Technology Co., Ltd. was a highly rewarding and educational experience. This report documents the knowledge and skills acquired during the internship and aims to serve as a useful reference for future students preparing for similar opportunities.

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1. A brief introduction of the organization's business sector

Myanmar's modern economic development is entering the digital age, presenting significant potential for digital leapfrogging and economic growth. The country's Information and Communication Technology (ICT) sector has seen notable development recently. However, the Myanmar ICT market remains largely dominated by hardware companies, which account for about 50% of the market, due to relatively low ICT adoption in businesses and industries. Other segments include training (18%), software (18%), trading (3%), web and internet services (2%), and network maintenance services (1%).

The software market in Myanmar is still in its early stages, with relatively few companies actively operating in this field. The finance sector is one of the early adopters of technology, with banks implementing increasingly secure and advanced systems. In the trading and tourism sectors, IT usage is mostly limited to larger players such as major airlines, foreign-owned hotels offering online booking systems, and large supermarket chains using inventory management solutions. However, many of Myanmar's largest sectors—such as agriculture, manufacturing, education, and healthcare—make little use of software solutions, if any.

Despite this, demand for sophisticated applications is expected to increase sharply as these industries expand and require more advanced, custom-made applications or licensed comprehensive systems. Furthermore, Myanmar offers promising opportunities for offshore software development and outsourcing projects. The country boasts a skilled workforce, with the IDI sub-skills index in 2011 scoring Myanmar at 5.24—higher than countries like India (4.63), Cambodia (4.38), and Laos (4.35)—at a fraction of the cost. Additionally, new investor-friendly regulations and incentives make Myanmar an attractive destination for investment in ICT ventures.

2. Overview of the D.I.S Technology Co., Ltd.

D.I.S Technology Co., Ltd. is an IT company based in Yangon, Myanmar, specializing in developing modern and efficient software solutions. The company works on a wide range of projects, including web applications, e-commerce platforms, and enterprise systems, using technologies. In addition to development, the team also provides system maintenance, upgrades, and IT consulting services. With a focus on quality, teamwork, and innovation, D.I.S Technology aims to deliver reliable solutions that meet client requirements and industry standards.

2.1 Brief History

D.I.S Technology Co., Ltd. was established in 2009 by Sir U Kyi Min and Daw Zar Ni as a subsidiary of the PAG Group, a well-known business conglomerate in Myanmar. Since its inception, D.I.S Technology has grown to become one of the country's leading IT solutions providers, offering software development, system integration, and digital services across both government and private sectors. With a mission to deliver high-quality and innovative digital solutions, the company quickly gained recognition for developing several government-level applications, including systems for the Ministry of Transport, Ministry of Finance, and Internal Revenue Department.

D.I.S Technology is particularly notable for pioneering software solutions in public sector digitization, earning multiple government certificates of recognition. Over the years, the company has diversified its services and entered into commercial technology ventures, including the distribution of card printers and related accessories. Its continued commitment to innovation and service quality has positioned D.I.S as a key contributor to Myanmar's digital transformation journey.

2.2 Business size

D.I.S Technology currently operates out of its main office located at No.131, Strand Road, Thanlyin Yadanar Housing, 1st Ward, Thanlyin Township, Yangon. The company employs a growing team of over 50 staff members, including software engineers, project managers, IT consultants, system analysts, and administrative staff. As part of the larger PAG Group, D.I.S Technology benefits from shared resources and infrastructure, working closely with affiliated services such as P.A.G Printing House, which employs over 180 people and offers full-scale printing and publishing solutions.

2.3 Product Line

2.3.1 Services

D.I.S Technology offers a wide range of digital solutions and software products tailored to the needs of both government and private sector clients. Its services include:

- Custom Software Development for public institutions and enterprises
- Web Application Development using modern frameworks and secure architectures
- Database Design & Management
- System Integration & Support
- Hardware Distribution (Card Printers and accessories)
- Technical Consulting & IT Project Management

2.3.2 Technologies

D.I.S Technology uses a modern technology stack to build scalable and efficient software solutions. The core technologies include:

- Frontend Development
  - HTML
  - CSS
  - JavaScript
  - Bootstrap
  - React.js
- Backend Development
  - C# .NET Core MVC
  - JavaScript

- TypeScript
- JQuery
- .NET Framework
- MSSQL Server
- MySQL
- AJAX
- JSON
- RESTful APIs
- React / Vue / Angular

- Tools and Platforms
  - Visual Studio, Git, Postman, MS SQL Management Studio
  - Deployment on Windows Server environments

2.4 Competitors

The IT services and software development industry in Myanmar is becoming increasingly competitive, with many organizations offering training, digital solutions, and enterprise systems. However, D.I.S Technology's true focus is not on competing with others, but on continuously improving itself. The founders and leadership team often emphasize that the company's only real competition is its previous version. By striving to outperform who they were yesterday, D.I.S Technology commits to quality, consistency, and innovation in every project. This mindset, combined with extensive experience in government and commercial systems, a reputation for reliability, and a strong culture of professional growth, allows D.I.S Technology to lead with purpose, vision, and long-term impact rather than simply competing in the market.

2.5 Brief summary of Training Areas

During the internship program at D.I.S Technology Co., Ltd., the training was focused on modern software development tools, frameworks, and workflows used in professional IT projects. The core training areas included:

1. C# Programming with .NET Core MVC
2. React.js Frontend Development
3. Microsoft SQL Server (MSSQL) Database Management
4. Team Collaboration and Project Management

2.5.1 C# Programming with .NET Core MVC

During the internship, I developed skills in C# programming using the .NET Core MVC framework, which is essential for building robust and scalable web applications. Training focused on understanding MVC architecture, writing clean backend code, and managing server-side logic efficiently. I learned how to create and handle controllers, views, and models to facilitate smooth data flow and user interaction. This foundation helped me contribute to real project development effectively.

2.5.2 React.js Frontend Development

I received hands-on training in React.js to build dynamic and responsive user interfaces. The focus was on component-based design, state management, and API integration for seamless real-time updates. Emphasis was also placed on creating reusable UI components and improving the overall user experience. This training enhanced my frontend development skills and helped me connect backend data with interactive designs.

2.5.3 Microsoft SQL Server (MSSQL) Database Management

The training included comprehensive lessons on Microsoft SQL Server, emphasizing database design, writing optimized queries, and managing data security. I learned about relational database principles, indexing, stored procedures, and data normalization to improve performance. Practical exercises involved handling real data sets, backup, and recovery processes. This equipped me with essential database management skills necessary for backend development.

2.5.4 Team Collaboration and Project Management

Besides technical skills, the internship provided valuable experience in teamwork and project management. I learned how to communicate effectively within a development team, participate in planning meetings, and manage tasks according to project milestones. The training emphasized time management, conflict resolution, and the importance of clear documentation. These soft skills were crucial for contributing to a productive and organized work environment.

3. Plan of Internship Program

I served as an intern in the Development Team at D.I.S Technology Co., Ltd. from May 5, 2025, to August 5, 2025. The team, consisting of both senior and junior developers, was responsible for software testing, debugging, version upgrades, and the development of new systems. Working alongside them allowed me to gain valuable hands-on experience with real-world development tasks and effective team collaboration.

During the internship, I was first assigned to a mini project titled "Best Store"—a web-based e-commerce platform that allowed users to browse products, add items to a cart, place orders, and manage their accounts. The objective was to build a user-friendly, responsive, and efficient online shopping experience.

In the later phase, I participated in the main project, "Internship Project Information System", a platform designed to manage intern-related data and activities. This project allowed me to apply and expand my knowledge in system architecture, data handling, and application logic.

Throughout the three-month program, I was actively involved in different areas of the development lifecycle, including frontend and backend development, database management, debugging, and testing. In addition to technical skills, I significantly improved my teamwork, time management, and problem-solving abilities through team discussions, collaborative debugging, and participating in internal activities that contributed to my overall professional growth.

4.Training Program

During my internship at D.I.S Technology Co., Ltd., I took part in a structured training program that emphasized hands-on experience with modern software development tools and methodologies, particularly focusing on C# programming with the .NET Core MVC framework. From the beginning, I was introduced to the core concepts of MVC architecture, backend coding, and efficient server-side logic management, which are essential for building scalable and maintainable web applications. I was assigned to real projects, starting with a mini project called “Best Store,” an e-commerce platform designed to provide users with a seamless shopping experience. This initial phase involved understanding the project requirements, business logic, and system workflows in detail. After successfully completing the “Best Store” project, we transitioned to the main project, titled “Internship Project Information System,” which focused on managing intern-related data and activities more comprehensively. This shift allowed me to apply and expand the skills I had learned in a more complex and critical application environment. I was taught key development practices, including using Git for version control, working with Microsoft SQL Server for database management, and writing clean, modular code. It helped me improve debugging skills and taught me how to maintain code quality and optimize database queries.

Since many of these technologies were new to me, the early weeks were dedicated to learning and practicing in a supportive environment. I set up development tools like Visual Studio and SQL Server Management Studio, which enabled me to build and test applications locally. This phase helped me develop self-study skills and gave me confidence in handling both backend and frontend tasks. Throughout the internship, I participated in regular team meetings to discuss project milestones, task assignments, and challenges. The collaborative environment encouraged open communication and daily integration testing, where we would identify and fix errors collectively. This approach not only refined my technical abilities but also enhanced my time management and teamwork skills, critical for professional software development.

As I progressed, I gained comprehensive experience across the full software development lifecycle, including designing responsive user interfaces using React.js, implementing backend APIs with .NET Core MVC, and optimizing database

interactions with MSSQL. I was involved in debugging, version upgrades, and system enhancements, which gave me practical insights into maintaining and improving large-scale applications. The exposure to project management and team collaboration tools further helped me understand how to organize development workflows and coordinate effectively with colleagues

4.1 Usage Tools

4.1.1 Microsoft Visual Studio

Microsoft Visual Studio is a powerful, cross-platform Integrated Development Environment (IDE) developed by Microsoft. It supports multiple programming languages, including C#, and provides tools for building .NET Core MVC web applications. Visual Studio offers features such as IntelliSense (smart code completion), debugging, Git integration, and Azure deployment. It is widely used for developing scalable and high-performance web applications, making it essential for backend development with .NET Core.

4.1.2 SQL Server Management Studio (SSMS)

SQL Server Management Studio (SSMS) is a database management tool developed by Microsoft for configuring, managing, and administering Microsoft SQL Server (MSSQL). It provides a graphical interface for writing and optimizing SQL queries, designing database schemas, creating stored procedures, and managing security permissions. During the internship, SSMS was crucial for handling data operations, ensuring efficient database performance, and maintaining data integrity in the projects.

4.1.3 Git & GitHub

Git is a distributed version control system used for tracking changes in source code during software development. GitHub, a cloud-based platform, was used for collaborative development, code reviews, and project management. During the internship, Git helped in branching, merging, and maintaining code versions, while GitHub facilitated team collaboration, issue tracking, and continuous integration (CI/CD) workflows.

4.2 Duties and Responsibilities Performed

During my internship at D.I.S Technology Co., Ltd., I worked under the guidance of Project Director Sir U Nyi Nyi Aung and senior developers including Ko Bhone Naing Tun and U Aung Paing. My training began with the "Best Store" e-commerce project, where I learned Git version control, database management with MSSQL, and debugging techniques. I then progressed to the main "Internship Project Information System," applying these skills while gaining new ones in React.js frontend development and .NET Core API integration.

Throughout both projects, I actively participated in requirement analysis, system design, and feature implementation. I attended regular team meetings, submitted progress reports, and collaborated with colleagues like Ma Su Myat Thun to resolve technical challenges. My responsibilities included writing clean code, conducting testing, and presenting completed work to supervisors. I maintained a professional approach, met all deadlines, and consistently applied feedback to improve my work, demonstrating strong technical and teamwork skills by the internship's conclusion.

5. Learning Experiences

5.1 Knowledge acquired

During my internship, I gained a lot of practical knowledge in programming with C# and working with the .NET Core MVC framework. I learned how to build web applications by writing backend code, managing databases with Microsoft SQL Server, and designing user-friendly interfaces. I also became comfortable using important development tools like Visual Studio for coding and SQL Server Management Studio for managing databases. Additionally, I learned how to use Git for version control, which helped me understand how to work in a team and keep track of code changes. This hands-on experience helped me connect the theories I studied at university—such as software development principles, database management, and programming languages—to real-life projects. It gave me a better understanding of how professional software systems are planned, built, and maintained. Overall, this knowledge has made me more confident in my technical skills and prepared me well for future work in software development.

5.2 Skills learned

Besides technical skills, I improved my time management and communication. I learned how to organize my tasks, meet deadlines, and work well with others. Weekly team meetings helped me share my ideas clearly and listen to feedback. I became better at teamwork and problem-solving, which are important for working in any software development team.

I also learned the importance of taking initiative—being proactive in solving problems and seeking ways to improve my work without waiting for instructions. This internship helped me grow both professionally and personally, teaching me valuable lessons about discipline, continuous learning, and self-motivation that will help me succeed in my future career.

5.3 Observed attitudes and gained Values

At the company, I noticed the employees were very hardworking. They took responsibility for their work and didn't rely too much on others. This made me realize that being independent and dedicated is key to being a good developer. They were positive and motivated, which made the work environment comfortable and productive. I also learned that respect, loyalty, and keeping information confidential are important values for building a successful career.

5.4 The most challenging task performed

The hardest task for me was working on the "Internship Project Information System," where I had to connect the backend API with the database and manage complex queries. At first, I struggled to understand how to properly handle the data flow between the frontend and backend and how to write efficient database queries. Debugging the errors that appeared during testing was also difficult because I was still learning how different parts of the system interacted. This made the task feel overwhelming at times.

To overcome these challenges, I broke the task into smaller, manageable parts and focused on each one step by step. I spent time studying online tutorials and reading documentation to deepen my understanding. Whenever I encountered problems, I reached out to my mentors and team members for guidance. Through consistent practice, testing, and applying the advice I received, I gradually improved my skills. Successfully completing this task boosted my confidence and greatly enhanced my coding and problem-solving abilities.

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

6.1 Strengths

- Use of latest technologies like C#, .NET Core MVC, React.js, and MSSQL
- Friendly and supportive work environment
- Strong teamwork and open communication culture
- Opportunities to work on real projects and apply knowledge practically
- Good mentorship from senior developers
- Regular team meetings and collaborative debugging sessions
- Flexible and less stressful atmosphere

6.2 Weaknesses

- Workload varies, causing some downtime.
- Workload varies, causing some downtime.
- Limited involvement of interns in some projects.
- Some processes and tools still developing and need improvement

6.3 Opportunities

- Chance to adopt and explore emerging tech like cloud computing or AI
- Potential to expand into mobile app development
- Growing local and international demand for custom software solutions
- Receive mentorship from experienced developers.
- Improving internship programs to attract more talent

6.4 Threats

- Economic instability might reduce project budgets
- Strong competition from bigger IT companies and outsourcing firms
- Infrastructure limitations sometimes cause delays in project delivery timelines.

7. Problem Identification and Solution

7.1 Problem Identification

During my internship at D.I.S Technology Co., Ltd., I observed that the process of project documentation and knowledge sharing within the development team was not consistent. Although the team members were skilled and dedicated, there was a lack of formal and organized documentation regarding project requirements, code updates, and troubleshooting steps. This made it difficult for new interns and team members to quickly understand ongoing projects and contributed to delays as they had to spend extra time clarifying details. Additionally, the absence of thorough documentation increased the risk of losing valuable knowledge when experienced developers were unavailable or when projects changed hands. This issue impacted the team's efficiency and slowed down the onboarding process for newcomers.

7.2 Consequences of the Current Problem

The inconsistent documentation and communication caused several challenges for the company. New interns often felt lost or uncertain about project details, which affected their ability to contribute effectively. Time was wasted searching for information or asking for clarifications, reducing overall productivity. Moreover, the risk of miscommunication or errors increased, as important updates or fixes might not have been fully shared or recorded. This situation could lead to delays in project delivery and lower the quality of the software development lifecycle.

7.3 Proposed Solution

To address this issue, I propose implementing a standardized and centralized documentation system using tools such as Confluence, Notion, or SharePoint. This platform would serve as a single source of truth for all project-related information, including requirements, system designs, code changes, and troubleshooting guides. Encouraging the team to update documentation regularly after major developments or fixes will ensure the information remains accurate and useful. Additionally, organizing periodic knowledge-sharing sessions or internal workshops would foster better communication and help interns and new developers quickly get up to speed. This approach will improve transparency, support faster onboarding, and increase overall team productivity by preserving critical knowledge and making it accessible to everyone.

8. Conclusion

My three-month internship provided me with a valuable opportunity to experience the software industry firsthand. It helped me understand how the knowledge and skills I gained from my studies are applied in a real work environment. During this time, I was able to learn new skills, build my confidence, and improve my ability to work with others.

The internship gave me a chance to develop important professional skills such as communication, teamwork, and responsibility. Working alongside experienced professionals allowed me to receive guidance and support, which was very helpful for my learning and growth. I also learned the importance of being proactive and managing my time effectively.

Through this experience, I could connect the theories and ideas I learned at school to practical tasks in the workplace. It was rewarding to contribute to the company and see the results of my work. Additionally, I had the opportunity to meet and work with many new people, which helped me build a network of professional contacts and mentors.

Overall, the internship was a great learning experience that prepared me for my future career. It gave me confidence and motivation to continue improving my skills. I am grateful for the support I received and the chance to grow as both a professional and an individual. This experience has set a strong foundation for my career path ahead.

8.1 References

- Company training materials and documentation provided during the internship program.
- Academic textbooks and notes from my university courses, especially those related to system programming and software development.

9. Appendices

Appendix A. Internship Weekly Log

Company : DIS Technology Co., Ltd.

Department : Software Team

Project : **Internship Project Information System**

Project Supervisor : U Nyi Nyi Aung (Project Director)

Period : From (5-May-2025) To (5-Aug-2025)

1st Weekly Log – From (5 May 2025) To (11 May 2025)

Date	Description about Task assigned
5.5.2025	- Installed MySQL and set up .NET Core environment.
6.5.2025	- Created MVC project structure for Best Store DB.
7.5.2025	- Learned GitHub basics and uploaded project to repo.
8.5.2025	- Assisted in data entry for product inventory.
9.5.2025	- Debugged syntax errors in Controller.
10.5.2025	- Off day
11.5.2025	- Off day

2nd Weekly Log – From (12 May 2025) To (18 May 2025)

Date	Description about Task assigned
12.5.2025	- Designed DB schema for Products and Customers.
13.5.2025	- Implemented CRUD for Products using EF Core.
14.5.2025	- Assisted in migrating customer data to MySQL.
15.5.2025	- Fixed null reference bugs in Edit function.
16.5.2025	- Attended Git workshop on branching strategies.
17.5.2025	- Off day
18.5.2025	- Off day

3rd Weekly Log – From (19 May 2025) To (25 May 2025)

Date	Description about Task assigned
19.5.2025	- Added price validation (min/max) for Products.
20.5.2025	- Reviewed and merged teammate’s GitHub PR.

21.5.2025	- Debugged foreign key issues in Orders table.
22.5.2025	- Entered supplier data via admin dashboard.
23.5.2025	- Attended Agile training and wrote user stories.
24.5.2025	- Off day
25.5.2025	- Off day

4th Weekly Log – From (26 May 2025) To (1 June 2025)

Date	Description about Task assigned
26.5.2025	- Implemented user authentication
27.5.2025	- Resolved merge conflicts
28.5.2025	- Tested edge cases
29.5.2025	- Organized office records
30.5.2025	- Presented progress
31.5.2025	- Off day
1.6.2025	- Off day

5th Weekly Log – From (2 June 2025) To (8 June 2025)

Date	Description about Task assigned
2.6.2025 to 8.6.2025	- University Examination

6th Weekly Log – From (9 June 2025) To (15 June 2025)

Date	Description about Task assigned
9.6.2025	- Wrote unit tests
10.6.2025	- Optimized SQL queries
11.6.2025	- Prepared sales reports
12.6.2025	- Fixed UI issues
13.6.2025	- Learned Azure deployment
14.6.2025	- Off day
15.6.2025	- Off day

7th Weekly Log - From (16 June 2025) To (22 June 2025)

Date	Description about Task assigned
16.6.2025	- Added dashboard charts
17.6.2025	- Documented workflow
18.6.2025	- Debugged session issues
19.6.2025	- Entered final data
20.6.2025	- Final review
21.6.2025	- Off day
22.6.2025	- Off day

8th Weekly Log – From (23 June 2025) To (29 June 2025)

Date	Description about Task assigned
23.6.2025	- Developed admin dashboard
24.6.2025	- Fixed critical security vulnerabilities
25.6.2025	- Conducted user acceptance testing
26.6.2025	- Prepared final project documentation
27.6.2025	- Delivered comprehensive handover
28.6.2025	- Off day
29.6.2025	- Off day

9th Weekly Log – From (30 June 2025) To (6 July 2025)

Date	Description about Task assigned
30.6.2025	- Tested the entire Best Store application to ensure all CRUD features work properly.
1.7.2025	- Fixed final syntax and logic bugs in controllers and views.
2.7.2025	- Cleaned and organized the codebase, removed duplicate or unused files.

3.7.2025	- Created a simple documentation/report describing the features and tools used.
4.7.2025	- Submitted the Best Store DB project and report to company
5.7.2025	- Off day
6.7.2025	- Off day

10th Weekly Log – From (7 July 2025) To (13 July 2025)

Date	Description about Task assigned
7.7.2025	- Defined the core modules and features for the system: Projects, Tasks, Users, Roles, and Status tracking.
8.7.2025	- Designed the database schema and relationships: one project to many tasks, tasks assigned to users.
9.7.2025	- Off day
10.7.2025	- Structured folders and created initial controllers and views for the main modules.
11.7.2025	- Set up GitHub repo with branching structure and pushed initial working code.
12.7.2025	- Off day
13.7.2025	- Off day

11th Weekly Log – From (14 July 2025) To (20 July 2025)

Date	Description about Task assigned
14.7.2025	- Implemented CRUD operations for Projects and Tasks.
15.7.2025	- Linked Tasks to their corresponding Projects and Users.
16.7.2025	- Created dropdowns and selection logic for Task Status and Priority.
17.7.2025	- Validated task deadlines and project input fields.

18.7.2025	- Manually tested core flows.
19.7.2025	- Off day
20.7.2025	- Off day

12th Weekly Log – From (21 July 2025) To (27 July 2025)

Date	Description about Task assigned
21.7.2025	- Improved layout with Bootstrap and built a user-friendly navigation bar.
22.7.2025	- Implemented user registration and login using ASP.NET Core Identity.
23.7.2025	- Added role-based access control (Teacher, Student) using [Authorize] attributes.
24.7.2025	- Customized views based on user roles (e.g., only Admin can add projects).
25.7.2025	- Conducted testing on login/logout and page permissions.
26.7.2025	- Off day
27.7.2025	- Off day

13rd Weekly Log – From (28 July 2025) To (3 August 2025)

Date	Description about Task assigned
28.7.2025	- Conduct thorough testing of all features Projects, Tasks, User roles, and permissions.
29.7.2025	- Identify and fix any bugs, UI glitches, or workflow issues found during testing.
30.7.2025	- Prepare detailed documentation explaining system architecture, database schema, and features.

31.7.2025	- Organize and clean the project codebase: remove unused files and improve code readability.
1.8.2025	- Project Testing
2.8.2025	- Off day
3.8.2025	- Off day

14th Weekly Log – From (4 August 2025) To (5 August 2025)

Date	Description about Task assigned
4.8.2025	- Create clear and concise presentation slides demonstrating key features and workflows. - Prepare a live demo script or recorded video walkthrough of the application.
5.8.2025	- Review all project materials (code, docs, presentation) for completeness and clarity.

Appendix B. Scanned copy of the Internship Certificate