

Overview of the Practicum Engagement

Company Background

The student interned at the Information Technology Services Office (ITSO) of Mapúa Malayan Colleges Laguna, located in Pulo-Diezmo, Cabuyao, Laguna. As the official IT department of the institution, ITSO plays a vital role in ensuring the stability, security, and efficiency of the school's digital infrastructure. The office is composed of skilled IT professionals who provide support to both academic and administrative departments by managing core systems and services critical to the school's daily operations.

ITSO is primarily responsible for network administration, server and database management, email systems, and the maintenance of the institution's official website. They oversee the backend systems that power the school's online services, such as student portals, document processing platforms, and enrollment systems. Additionally, they handle user account management, system access provisioning, and IT security, ensuring that data privacy and operational integrity are upheld across the campus.

Beyond infrastructure management, ITSO also provides technical support to faculty and staff, addressing hardware, software, and connectivity issues as they arise. The department actively monitors the network to prevent downtime and implements upgrades to accommodate the evolving needs of the college. Through their continuous efforts to adopt modern technologies and optimize IT operations, ITSO helps Mapúa MCL deliver a seamless and tech-enabled educational experience to its students and community.

Nature of Assignments or Tasks Given

During the internship at the Information Technology Services Office (ITSO) of Mapúa Malayan Colleges Laguna, the student was tasked with developing a standalone desktop application to support the school's Parking Management System. The application was designed specifically for use by parking attendants to facilitate efficient and real-time monitoring of parking activities. This assignment formed a significant part of the student's internship experience, allowing them to apply their technical skills in a practical setting. Weekly meetings were held with supervisors to review progress, receive feedback, and discuss improvements. These sessions also served as opportunities for knowledge sharing and technical guidance.

The core objective of the project was to streamline the parking operations on campus by enabling attendants to manage parking slot reservations, monitor real-time check-ins and check-outs, and track the status of individual parking slots. The intern worked independently on the full development cycle—handling the planning, design, backend logic, and frontend interface. Requirements were gathered with input from ITSO personnel, focusing on usability, responsiveness, and reliability to ensure that the final product could be effectively used in a live environment with minimal support.

The application was built using the .NET Framework with Windows Forms as the UI technology. It was developed in C#, offering a familiar and robust environment for building desktop-based solutions. For the backend, PostgreSQL was used to manage data such as user records, vehicle entries, parking slot information, and reservation logs. A major aspect of the development involved setting up real-time tracking features and ensuring that the data reflected accurate slot availability and activity. This included proper handling of state transitions when vehicles entered and exited the parking area.

Throughout the project, the intern emphasized creating a clean and intuitive user experience, given that the primary users—parking attendants—required a straightforward and fast interface for performing their tasks. Features such as slot search filters, visual status indicators, and simplified reservation forms were implemented to minimize user friction and reduce manual logging. The intern also developed logic for handling common operational scenarios, such as vehicle overstays and reservation expiration, contributing to a more automated and efficient workflow.

This project provided the intern with significant exposure to desktop application development, database integration, and practical problem-solving within an institutional IT environment. Working under ITSO allowed the student to understand how technology is deployed in support of campus operations and user services. The successful delivery of the application demonstrated the intern's ability to manage an end-to-end software development project independently while aligning with real-world requirements. It also strengthened their technical foundation in C#, Windows Forms, and PostgreSQL, preparing them for future roles in software development.

Total Rendered Hours

In total, the student completed 324 hours during the internship, which officially concludes on July 25, 2025. These hours were distributed across the full development lifecycle of a standalone desktop application for the Parking Management System under the supervision of ITSO. The internship began with 40 hours allocated to Project Foundation and Analysis, which involved stakeholder interviews, requirements gathering, competitive research, and planning.

Following this, 60 hours were dedicated to the System Design and Architecture phase, where the intern created the system architecture, component design, database schema, and user experience wireframes. These initial stages laid the groundwork for the application's technical structure. Another 80 hours were spent on Core Backend Development, where the intern focused on key functionalities such as slot management, user authentication, real-time availability tracking, and reservation logic.

The Frontend Development and Integration phase consumed 72 hours. This involved building a responsive desktop interface using Windows Forms, developing the user dashboard, and integrating the backend database. An additional 40 hours were allocated to Testing, Optimization, and Quality Assurance, during which the intern created a testing suite, conducted performance tuning, and implemented necessary bug fixes to ensure system reliability.

Finally, the last 32 hours were dedicated to Deployment and Knowledge Transfer. During this phase, the intern turned over all working files, including the application source code, database scripts, and relevant documentation, to ITSO. It is now up to the department to decide whether to retain the system as is or to further enhance it based on future feature requirements or internal planning. This handoff ensured that ITSO has full control over the continued development and maintenance of the application. Through the structured distribution of these 324 hours, the intern was able to independently design, develop, test, and deploy a fully functional desktop parking management application.

Table 1.0
Summary of Hours Rendered

Task	Rendered Hours
Project Foundation and Analysis	40
System Design and Architecture	60
Backend	80
Frontend	72
Testing and Optimization	40
Deployment	32
TOTAL	324

Presentation of Output

Technical Review

As part of the initial phase of the practicum, the intern was instructed by the ITSO supervisor to undergo a technical review to ensure readiness for the tasks ahead. The technical review was aimed at reinforcing the intern's understanding of the .NET Framework, specifically in the context of building standalone applications using Windows Forms. Since the intern's primary assignment was to develop a Parking Management System as a desktop-based solution, familiarity with event-driven programming and form-based design was essential.

To support this review, the intern utilized a combination of structured and self-paced learning resources. Coursera courses provided a comprehensive overview of Windows Forms application development using C#, while YouTube tutorials offered practical walkthroughs and real-world examples. These resources enabled the intern to refresh key skills such as component manipulation, form lifecycle management, and implementing navigation logic within desktop applications.

The screenshot shows the Coursera platform interface. At the top, there are logos for Coursera, a university, and MAPUA Malayan Colleges Laguna. A search bar is present. On the left, a sidebar for the course includes sections for 'BOARD INFINITY', '.Net Full Stack Foundation' (by Board Infinity), 'Course Material' (expanded), 'Grades', 'Notes', 'Discussion Forums', 'Messages', and 'Course Info'. The main content area displays the 'Introduction to ASP.NET' module. It shows completion status: 'All videos completed', 'All readings completed', and 'All graded assessments completed'. Below this, a detailed description of the module content is provided. Under 'Learning Objectives', there is a bulleted list of learning goals. A link to 'Hide Learning Objectives' is available. Another section, 'Introduction to the course', is also visible with its own list of content items.

Figure 1. .Net Full Stack Coursera Course

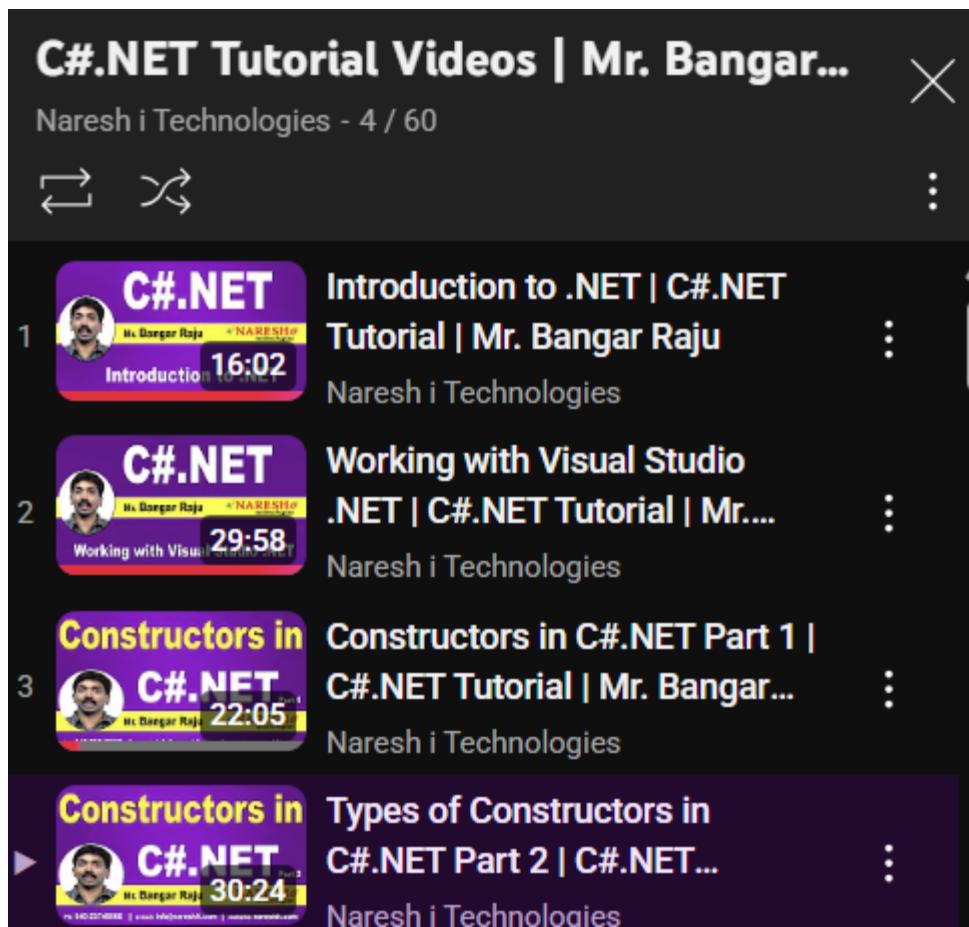


Figure 2. .Net Youtube Video Tutorials

A major focus during this phase was reacquainting with the design and behavior of Windows Forms. The intern revisited techniques for managing UI controls, handling form events, and maintaining clean separation between user interface and business logic. Practice projects were completed to reinforce knowledge of input validation, dynamic control updates, and multi-form workflows, skills necessary for the implementation of the Parking Management System.

Simultaneously, the intern reviewed SQL concepts to prepare for the backend integration of the system. This included fundamental database operations such as table creation, relational key design, join queries, and basic transactions. Using PostgreSQL, the intern practiced performing CRUD operations through C# and familiarized themselves with handling database connectivity, executing parameterized queries, and ensuring secure data manipulation from within the application.

The screenshot displays a Coursera course page for "Database Design and Basic SQL in PostgreSQL" offered by the University of Michigan. At the top, the Coursera logo and the logos of partner institutions (University of Michigan and Mapúa Malayan Colleges Laguna) are visible. A search bar and a "Search" button are also at the top.

Course Summary:

- University of Michigan**
- Database Design and Basic SQL in PostgreSQL**
- 1h 6m of videos left**
- 50 min of readings left**
- 4 graded assessments left**

Week 1: Introduction to SQL

In this first week, you will hear more about the goals of this course. You'll learn about the people and organizations instrumental to building the SQL standard, learn to differentiate between relational databases and flat files, and utilize psql and SQL commands to create, read, update, and delete tables in a PostgreSQL database.

Learning Objectives

- Identify a key innovation that underlies relational databases.
- Recall the people and organizations that were instrumental to building the SQL standard.
- Differentiate between relational databases and flat files.
- Utilize psql and SQL commands to create, read, update, and delete tables in a PostgreSQL database.

[^ Hide Learning Objectives](#)

Course Material:

- Grades**
- Notes**
- Discussion Forums**
- Messages** (1)
- Resources**
- Course Info**

Lectures:

Figure 3. PostgreSQL Coursera Course

This technical review served as a foundational stage for the intern's development journey. By revisiting essential tools and frameworks, the intern was better prepared to approach system development with confidence and precision. The knowledge gained during this period proved vital as the intern progressed into implementing features such as real-time parking slot monitoring, check-in/check-out tracking, and administrative dashboards within the Parking Management System.

Parking Management System Application

Following the completion of the technical review, development of the Parking Management System commenced under the guidance of the Information Technology Services Office (ITSO) at Mapúa Malayan Colleges Laguna. The system was designed to streamline the internal monitoring of parking activities, particularly focusing on reservation tracking and check-in/check-out recording. It is a standalone Windows Forms application built using C# and the .NET Framework, with PostgreSQL as its backend and Redis for real-time communication. The application is intended for use by both parking attendants and security guards, with dedicated access points for each role.

The landing page serves as the gateway to the application's three main modules: Login for Parking Attendant, Time-In System, and Time-Out System. The Time-In and Time-Out modules are used by security personnel stationed at the entrance and exit of the parking area. These modules allow guards to record the movement of vehicles by scanning or inputting student ID numbers, which are then logged into the system. This data is synchronized with the reservation records and helps maintain real-time parking slot occupancy status.

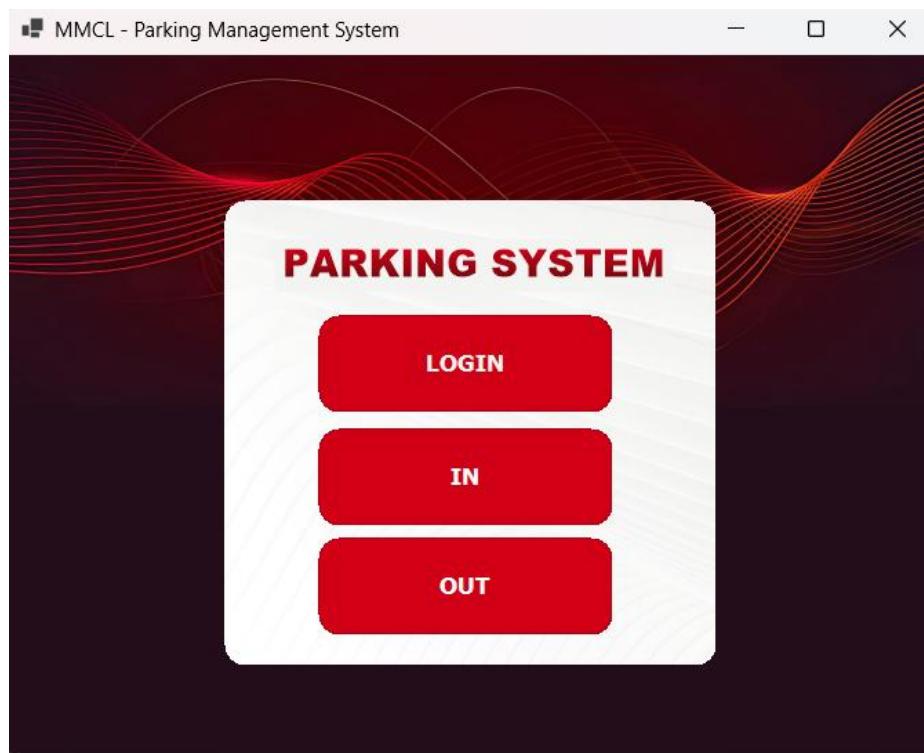


Figure 4. Landing Page

The Time-In and Time-Out modules of the Parking Management System are primarily used by security personnel stationed at the entrance and exit of the campus parking area. These modules are connected to an RFID scanner, which allows for seamless logging of vehicle entries and exits. When a student taps their RFID-enabled school ID onto the scanner, the system automatically retrieves the student's information from the database, records the event, and uploads it in real time. Each scan is tagged with an automatic timestamp, ensuring accurate tracking of both entry and exit times.

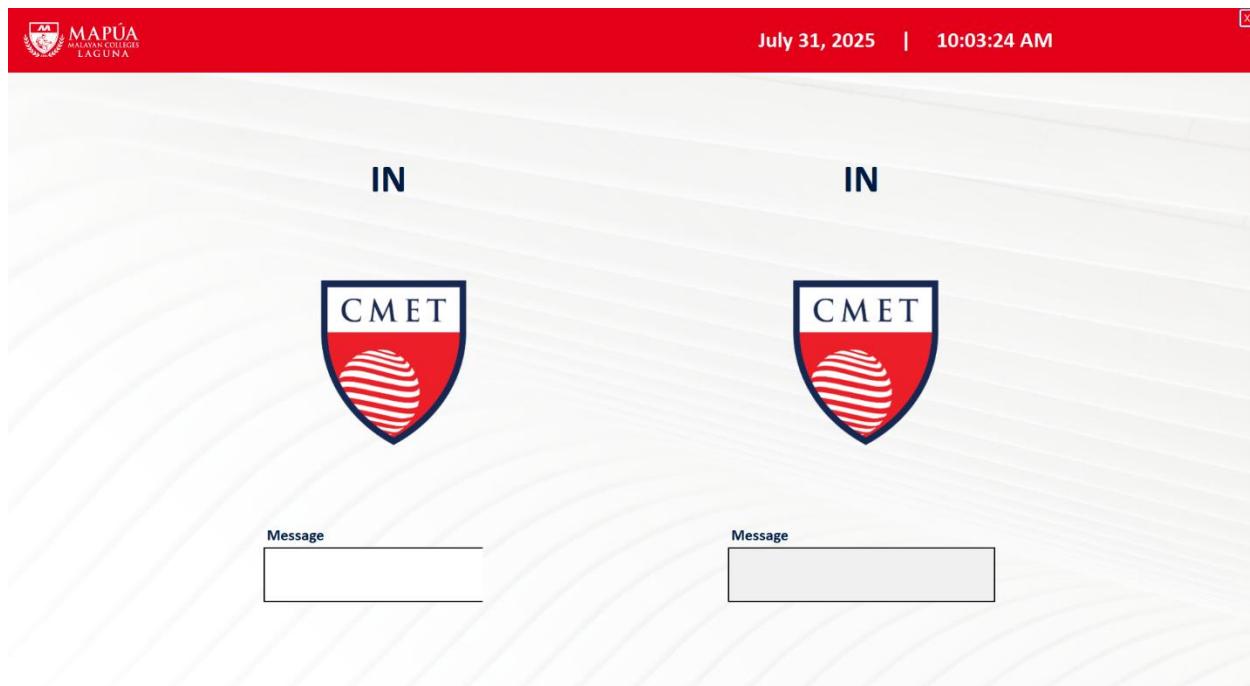


Figure 5. Parking Time In System

The interface, as shown in the figure, is designed for simplicity and efficiency. Once a successful scan is made, the student's profile picture is displayed in place of the Department logos, providing quick visual verification for the guard on duty. Below the image, a message box displays the status of the transaction such as "Logged In Successfully" or "Already Logged Out" to minimize confusion and guide the personnel. This mechanism supports dual terminals for faster processing during high-traffic periods, allowing multiple students to be scanned and processed simultaneously. This functionality plays a key role in maintaining updated, real-time records of parking usage and student activity within the system.

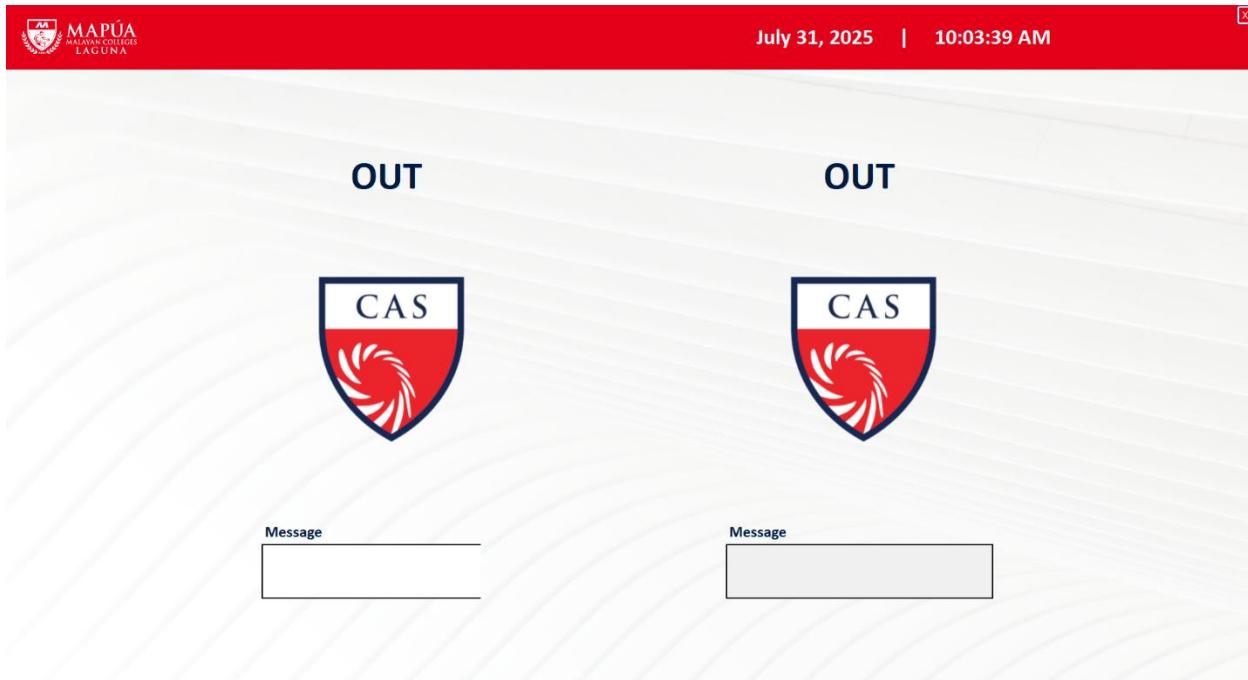


Figure 6. Parking Time Out System

When the Login option is selected, users are directed to the Authentication Module. Here, parking attendants are required to input valid credentials consisting of a username and password. The creation of user accounts is restricted; only ITSO administrators are authorized to register or manage user credentials in the database. This approach maintains strict access control and ensures that only approved personnel can interact with the core features of the system.

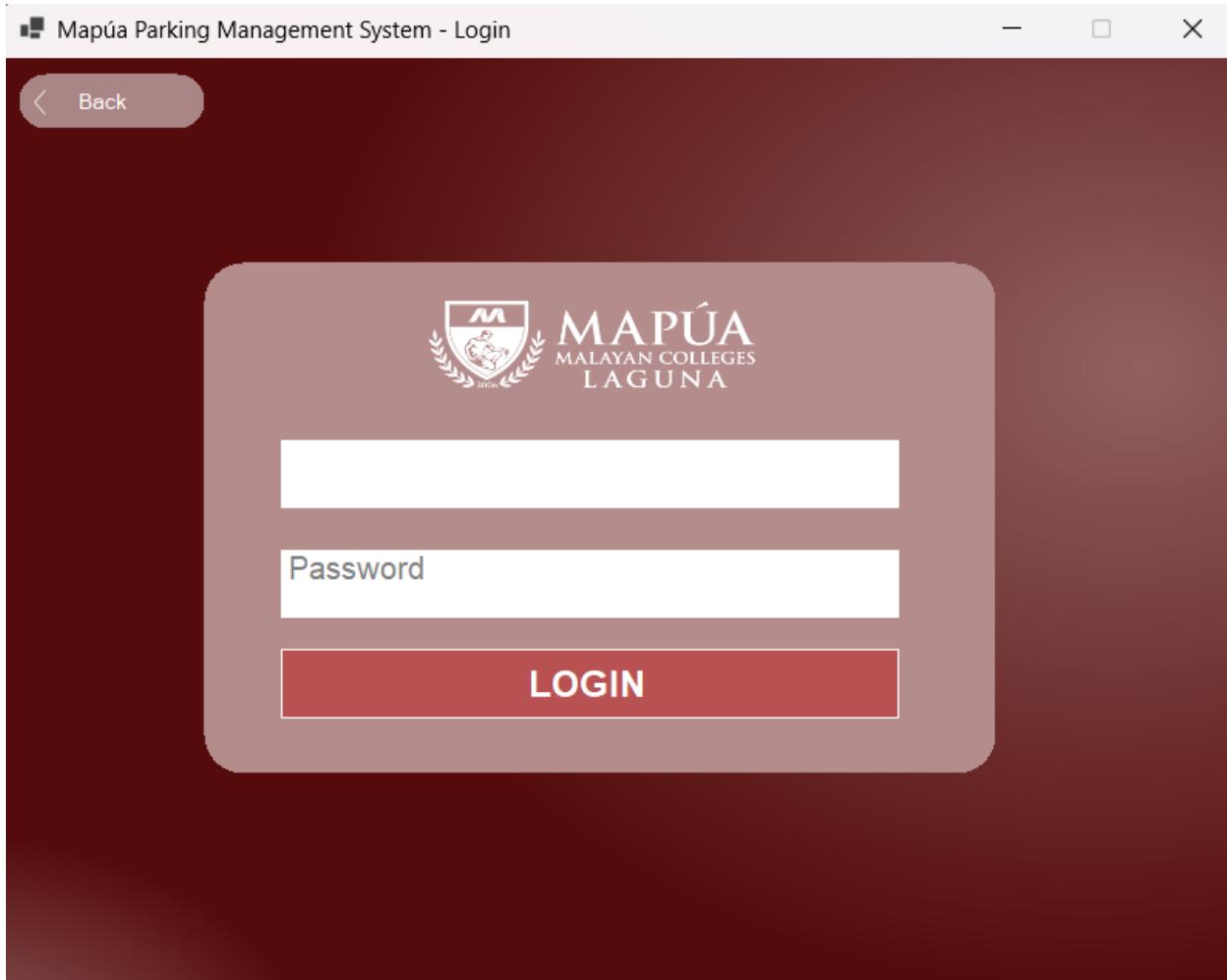
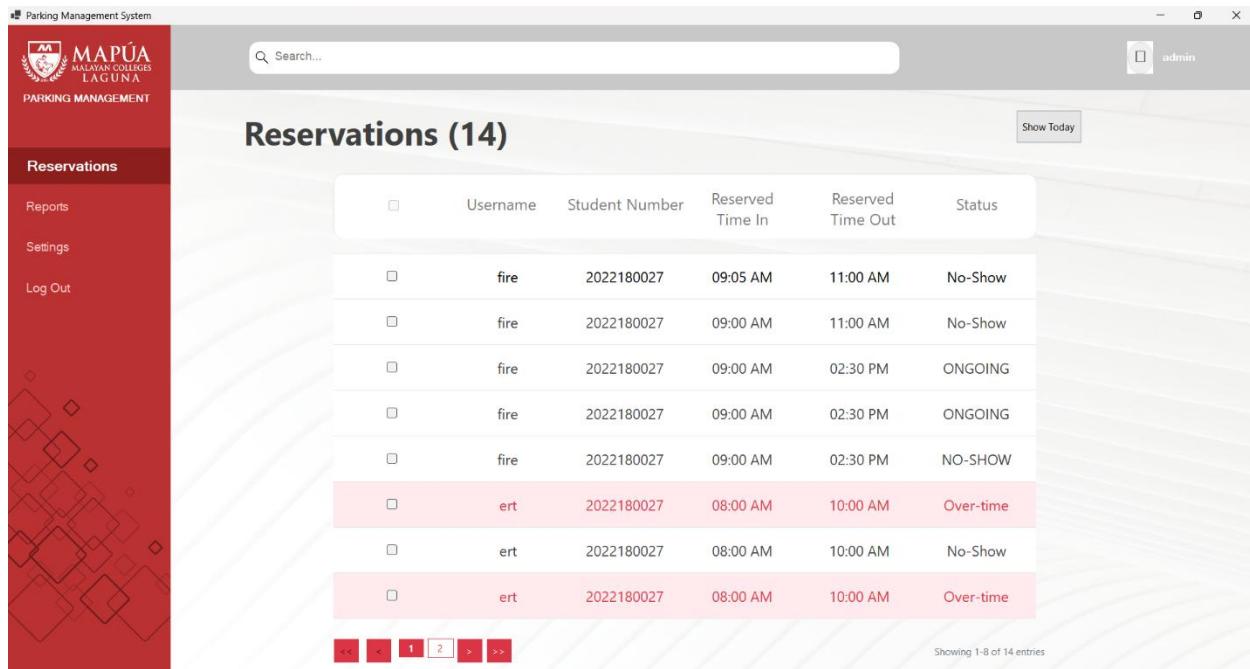


Figure 7. Authentication Module Interface

Upon successful login, the attendant is redirected to the Main Dashboard, which primarily features the Reservations Table. This table displays a live view of all reservations for the current day, sorted by the latest reservation time. Real-time updates are reflected through WebSocket connections and Redis caching, ensuring that any status changes such as check-ins, check-outs, and no-shows are immediately visible. The dashboard is built with user-friendly UI elements tailored for desktop use, prioritizing clarity and efficiency for attendants managing active reservations.



The screenshot shows the 'Parking Management System' interface. On the left, a vertical sidebar has a red header with the MAPÚA logo and 'PARKING MANAGEMENT'. Below it are links for 'Reservations' (which is highlighted in bold), 'Reports', 'Settings', and 'Log Out'. The main content area has a grey header with a search bar ('Search...') and a user icon ('admin'). Below the header is a title 'Reservations (14)' and a 'Show Today' button. The central part is a table with the following data:

	Username	Student Number	Reserved Time In	Reserved Time Out	Status
<input type="checkbox"/>	fire	2022180027	09:05 AM	11:00 AM	No-Show
<input type="checkbox"/>	fire	2022180027	09:00 AM	11:00 AM	No-Show
<input type="checkbox"/>	fire	2022180027	09:00 AM	02:30 PM	ONGOING
<input type="checkbox"/>	fire	2022180027	09:00 AM	02:30 PM	ONGOING
<input type="checkbox"/>	fire	2022180027	09:00 AM	02:30 PM	NO-SHOW
<input type="checkbox"/>	ert	2022180027	08:00 AM	10:00 AM	Over-time
<input type="checkbox"/>	ert	2022180027	08:00 AM	10:00 AM	No-Show
<input type="checkbox"/>	ert	2022180027	08:00 AM	10:00 AM	Over-time

At the bottom of the table are navigation icons for page numbers (1, 2, >, >>) and a note 'Showing 1-8 of 14 entries'.

Figure 8. Main Dashboard Module

While the current version of the system does not support online or automated reservation creation, it excels in reservation monitoring and validation. Attendants can view key details such as the reservation time, plate number, assigned slot, and current status. The system automatically computes the parking duration and changes the reservation status accordingly (e.g., "15 MINUTES LEFT," "OVERTIME," or "NO-SHOW"). These status changes are updated both in the interface and the backend database, allowing for seamless tracking of parking activity throughout the day.

The application follows a clear and secure flow, ensuring that all roles: guards, attendants, and admins, have access to tools appropriate to their responsibilities. By segmenting access through the landing page and enforcing credential-based login, the system maintains both usability and administrative control. With its foundational modules now in place, the Parking Management System is positioned for continued refinement, including enhanced reporting tools, additional logging capabilities, and future integrations if required by ITSO.

Synthesis of the Practicum Engagement

Learnings

The intern gained valuable technical skills and professional development that significantly contributed to their growth as a developer. The experience of building a fully functional Parking Management System from scratch introduced the intern to a variety of tools, frameworks, and problem-solving strategies critical to real-world software development. The project required a blend of backend and frontend development skills, system architecture planning, database integration, and deployment practices, all of which became key learning areas throughout the internship.

One of the foundational lessons gained during the internship was the importance of clear, consistent communication. As the intern worked closely with ITSO personnel to interpret requirements and receive feedback, they learned to articulate ideas, clarify doubts, and document technical changes effectively. Communicating progress, setbacks, and implementation details during project check-ins and final handoff ensured alignment with stakeholders. This reinforced the intern's ability to work independently while still maintaining collaborative standards, a skill essential in both agile and traditional development environments.

From the technical side, the internship strengthened the intern's proficiency in C# and the .NET Framework, particularly in building standalone desktop applications using Windows Forms. The intern gained hands-on experience with event-driven programming, form navigation, and user interface design tailored for administrative and security workflows. They implemented modular features such as real-time tracking using WebSocket and Redis and form-based check-in/out processes integrated with an RFID scanner. This development process allowed the intern to build scalable and maintainable software within a structured timeline.

The intern also deepened their understanding of database design and integration, working extensively with PostgreSQL to manage entities such as users, reservations, and parking slot assignments. They implemented efficient querying, indexing strategies, and relational schema designs to ensure data integrity and performance under concurrent system usage. Through this, the intern gained practical insight into how application logic interacts with persistent data and how real-time updates can be reflected reliably in a desktop-based system.

Finally, the internship emphasized the importance of security, documentation, and knowledge transfer in a real-world deployment. The intern implemented authentication logic to ensure that only authorized parking attendants could access the dashboard, while login credentials remained under ITSO's administrative control. They created user guides, walkthroughs, and technical documentation to support ongoing use and maintenance. Beyond the codebase, the experience highlighted the full software development life cycle from planning and system architecture to training and turnover, preparing the intern for future responsibilities in software engineering roles. Overall, the Parking Management System served not only as a functional project but also as a rich learning opportunity that refined both the technical competencies and professional mindset of the intern.

Realizations

During the internship, the intern realized that clear system requirements and detailed planning are vital in successfully developing any software project. Being the sole developer of the Parking Management System meant that every decision from architecture to deployment had to be deliberate and well thought out. The importance of breaking down tasks into manageable phases became evident as the intern navigated through the different stages of the project, from initial planning to final handoff. This experience highlighted how crucial it is to have a structured approach in meeting deadlines and delivering quality outputs.

The intern also came to appreciate how academic foundations translate into practical application. Knowledge in programming fundamentals, relational databases, and interface design formed the backbone of the system's development. Although the technologies used such as C#, PostgreSQL, and .NET Windows Forms were refined further during the practicum, it was the intern's foundational understanding of logical problem-solving and system workflows that allowed them to adapt quickly to challenges. This reinforced the value of academic preparation in real-world software development tasks.

A significant realization during the internship was the importance of adaptability and self-directed learning. The intern was required to brush up on existing skills and learn new technical concepts independently through Coursera and YouTube tutorials. This included deepening their

understanding of SQL querying, .NET form controls, and backend-to-database interaction. Being able to learn on the fly and apply new knowledge effectively became an indispensable part of the project's success. It taught the intern that software development is not only about knowing the tools, but also about the ability to learn them quickly when needed.

Another key realization was the value of mentorship and feedback. While the intern was independently responsible for the system's development, consistent guidance and review from the ITSO supervisor helped ensure the project stayed aligned with institutional needs. Suggestions on improving performance, interface clarity, and real-world usability were crucial in shaping the final output. This experience highlighted the importance of mentorship in both technical refinement and professional growth, showing that feedback is not a critique but a pathway to excellence.

Lastly, the internship affirmed the intern's understanding that software development is a lifelong learning journey. Even after completing the system's core functionalities, the intern recognized that there were always improvements to explore, features to refine, and new technologies to consider. The project reinforced a mindset of continuous growth, one where curiosity, adaptability, and initiative are just as essential as technical skill. This realization will serve as a guiding principle for the intern as they move forward in their software development career.

Conclusion

The internship at the Information Technology Services Office (ITSO) of Mapúa Malayan Colleges Laguna proved to be a deeply enriching experience that fostered both technical proficiency and professional growth. Throughout the internship, the intern developed essential software engineering skills, including hands-on experience with the .NET Framework, Windows Forms development, and PostgreSQL database integration. The intern also gained valuable knowledge in implementing real-time systems, working with hardware integrations like RFID scanners, and managing application logic through structured development phases.

By building the Parking Management System from the ground up, the intern was able to integrate backend and frontend development skills into a cohesive, functioning desktop application. The internship also emphasized the importance of planning, consistent documentation, and

stakeholder communication—skills that were vital to ensuring that the system met institutional needs and expectations. The intern's ability to work independently, absorb technical concepts through external resources, and deliver a complete application demonstrated a strong capacity for initiative and responsibility.

In addition to technical growth, the internship highlighted the importance of mentorship, self-directed learning, and adaptability. The intern was encouraged to revisit core programming concepts, explore practical use of SQL, and refine system performance through supervisor-led reviews. These experiences built confidence and broadened the intern's approach to solving real-world problems in software development.

One of the most meaningful takeaways was the intern's realization of the need for continuous learning and self-improvement. The evolving nature of software development demands a mindset that is open to change, eager to learn, and proactive in adapting to new technologies. This mindset, developed and reinforced throughout the practicum, will be instrumental in the intern's long-term growth as a developer.

Overall, the internship was a transformative period that not only solidified the intern's technical foundation but also shaped their perspective on project management, collaboration, and career direction. The skills, experiences, and insights gained during this practicum have equipped the intern with the tools and confidence to pursue a successful and fulfilling career in software development.

Appendices

Appendix A. Competency-Based CV

EMMAN TORRECAMPO

PROFILE INFO

A highly motivated college student at Mapúa Malayan Colleges Laguna with a strong sense of responsibility. Developed valuable skills in collaborative academic setting, including effective communication and time management. Demonstrated ability to handle administrative tasks and support team projects with efficiency and precision. Seeks to transition these skills into new field, contributing meaningfully to dynamic team environment.

EDUCATION

Bachelor of Science, Computer Science, 2022 - Present

Mapúa Malayan Colleges Laguna - Cabuyao, Laguna, Philippines

- Dean's List, 1st - 3rd, 2022-2023
- Dean's List, 1st, 2023-2024
- Average GWA: 1.5

Bachelor of Science, Computer Science, 2020 - 2022

AMA Online Education - Maximina Street, Villa Arca Ave, Project 8, Quezon City

- Dean's List, 1st - 3rd, 2020-2021
- Dean's List, 1st - 3rd, 2021-2022
- Average GWA: 1.25

High School, 2016 - 2020

Mohave High School - 2251 Highway 95 Bullhead City, AZ 86442

- Consistent With Highest Honors
- Grade Point Average: 3.966

LEADERSHIP & ACTIVITIES

Mapúa MCL - Association for Computing Machinery (ACM)

Finance Committee Co-Chair, 2023 - Present

- Managed the collection and documentation of membership fees from all active members, ensuring timely and accurate financial records.
- Prepared detailed budget proposals for organizational activities and events, aligning financial planning with strategic goals.
- Collaborated with other committee members to allocate funds efficiently and maintain transparency in all financial transactions.

Mapúa MCL - Christ's Youth In Action (CYA)

Finance Head, , 2023 - Present

- Monitored cash flow and maintained updated financial logs to support transparency and accountability in fund management.
- Coordinated with event committees to prepare cost estimates and advised on budget adjustments to prevent overspending.
- Assisted in organizing fundraising activities and explored potential sponsorship opportunities to supplement the organization's budget.

PROJECT

Project LAWA | IoT, ReactJS, Django, LoRa, AWS

- Designed and fabricated a custom ESP32 device with multiple sensors to collect water quality data, transmitted via LoRa module to a Raspberry Pi for cloud-based storage on Amazon EC2.
- Developed a full-stack web application for real-time water quality monitoring, incorporating machine learning to predict the WQI and utilizing PostgreSQL for efficient data analysis and storage.

 Cabuyao, Philippines 4025

 0926-057-8062

 emmantorrecampo751@gmail.com

SOFT SKILLS

- Communication
- Problem Solving
- Teamwork
- Learning
- Flexibility/Adaptability
- Detail Oriented
- Data Organization
- Administrative Tasks
- Computer Proficiency
- Customer Service
- Active Listening
- Multitasking

TECHNICAL SKILLS

- Python
- C#
- JavaScript
- PHP
- Git
- Agile/SCRUM
- HTML
- CSS
- ReactJS
- Django
- Flask
- PostgreSQL
- AWS
- scikit-learn
- TensorFlow
- Flutter

CERTIFICATIONS

- CompTIA ITF+
- AWS Academy Cloud Foundation
- Google Cloud Essentials

LANGUAGES

English



Bilingual or Proficient (C2)

Filipino



Bilingual or Proficient (C2)

Appendix C. Practicum Acceptance



REVISION NO.: 00
REVISION DATE: May 10, 2016

PRACTICUM CONFIRMATION AND ACCEPTANCE FORM

IMPORTANT INFORMATION

- STUDENTS ACCEPTED FOR PRACTICUM IN A HOST COMPANY WILL HAVE TO ACCOMPLISH THIS FORM.
- ASK THE PRACTICUM SUPERVISOR/ COMPANY REPRESENTATIVE TO FILL IN THE DETAILS OF THE TRAINING.
- SUBMIT TO THE PRACTICUM ADVISER/COORDINATOR PRIOR TO THE START OF TRAINING.

NAME OF STUDENT	Emman Torrecampo	STUDENT NUMBER	2022180027
COURSE CODE	CS109F	SY/TERM ENROLLED	AY 2024-2025 3T

This is to certify that Emman Torrecampo (name of student-trainee) has been accepted for practicum at Information Technology Services Office, Mapua Malayan College Laguna (name and address of establishment) and will be attached to the ITSO department/s for a minimum of, but not limited to 324 hours. Training will commence on 05/26/2025 and is expected to end on 07/25/2025. Attached is the list of requirements.

COMPANY REPRESENTATIVE	
<u>JOSELITO ELEBEN SOLANCA</u>	<u>IT PROCTOR</u>
Signature over Printed Name	Official Designation
<u>ITSO</u>	<u>JLSOLANCA@MCL.EDU.PH</u>
Department	Email and Contact Number/s

NOTED BY	
<u>Joselito Eleben Solanca</u>	<u>May 22, 2025</u>
Signature over printed name of Practicum Coordinator	Date

COPY: (1) STUDENT; (2) HOST COMPANY; (3) PRACTICUM COORDINATOR

FORM OVPA 030B

THIS FORM IS AVAILABLE AT THE OVPA.

REVISION NO.: 00
REVISION DATE: May 10, 2016



PRACTICUM CONFIRMATION AND ACCEPTANCE FORM

IMPORTANT INFORMATION

- STUDENTS ACCEPTED FOR PRACTICUM IN A HOST COMPANY WILL HAVE TO ACCOMPLISH THIS FORM.
- ASK THE PRACTICUM SUPERVISOR/ COMPANY REPRESENTATIVE TO FILL IN THE DETAILS OF THE TRAINING.
- SUBMIT TO THE PRACTICUM ADVISER/COORDINATOR PRIOR TO THE START OF TRAINING.

NAME OF STUDENT	Emman Torrecampo	STUDENT NUMBER	2022180027
COURSE CODE	CS109F	SY/TERM ENROLLED	AY 2024-2025 3T

This is to certify that Emman Torrecampo (name of student-trainee) has been accepted for practicum at Information Technology Services Office, Mapua Malayan College Laguna (name and address of establishment) and will be attached to the ITSO department/s for a minimum of, but not limited to 324 hours. Training will commence on 05/26/2025 and is expected to end on 07/25/2025. Attached is the list of requirements.

COMPANY REPRESENTATIVE	
<u>JOSELITO ELEBEN SOLANCA</u>	<u>IT PROCTOR</u>
Signature over Printed Name	Official Designation
<u>ITSO</u>	<u>JLSOLANCA@MCL.EDU.PH</u>
Department	Email and Contact Number/s

NOTED BY	
<u>Joselito E. Solanca</u>	<u>May 22, 2025</u>
Signature over printed name of Practicum Coordinator	Date

COPY: (1) STUDENT; (2) HOST COMPANY; (3) PRACTICUM COORDINATOR

FORM OVPA 030B

Appendix D. Liability Waiver



MAPUA
MALAYAN COLLEGES
LAGUNA

REVISION NO.: 00
REVISION DATE: May 10, 2016

STUDENT TRAINING AGREEMENT AND LIABILITY WAIVER

IMPORTANT INFORMATION

- THIS FORM IS TO BE ACCOMPLISHED AND SUBMITTED BY STUDENT TRAINEE TO THE PRACTICUM ADVISER BEFORE STARTING THE PRACTICUM.
- READ AND UNDERSTAND THE PROVISIONS OF THIS AGREEMENT AND WAIVER.
- ENSURE THAT ALL SIGNATORIES SIGN THE FORM.

I, Emman Torrecampo, and a student of MALAYAN COLLEGES LAGUNA (hereinafter referred to as "MCL", do hereby voluntarily undergo on-the-job training at TSO Dept Mapua Malayan Colleges Laguna, hereinafter referred to as the "Host Company", located at Polo-Dizmino Rd. Calauyao Laguna, under the following terms and conditions:

- a. That the practicum training will commence on 05/26/2015 and ends on 07/25/2015 and will have to complete a minimum of 324 hours required for the on-the-job training;
- b. That I shall observe proper decorum and act professionally at all times and abide by the Company's rules and regulations and comply with those imposed for the training program, otherwise, I shall be excluded from further participation;
- c. That in the course of my training program, I may have access to information which may be of confidential in nature and proprietary to the Company, for which I may be required to execute a confidentiality and non-disclosure agreement as a prerequisite to my participation in the training program;
- d. That the time I will spend on the training program in the completion of my on-the-job training requirements will not and should not be interpreted or construed as working hours and should be regarded as non-compensable. Provided that, the Company may, as a unilateral act of liberality or generosity on their part, provide me with meal, travel, transportation allowances, accommodations, etc.;
- e. That I fully understand that notwithstanding the allowances enumerated in the preceding section which I may receive, there exists no labor-management and/or employer/employee relationship between me and the Company where I will undergo my training;
- f. That I shall exercise due care and diligence in the tasks assigned to me and personally be made answerable for any and all liabilities for damage to property or injury to third person, which may be occasioned by my intentional or negligent acts during the course of my on-the-job training;
- g. That I shall likewise hold the Host Company and MCL free and harmless from any and all liability and responsibility for any sickness or injury to myself and third parties and damage to property which I may sustain and/or may occur at any time during the training program, including time spent in traveling to and from any and all premises and locations where I may be required to go as part of my training program;
- h. That the Company reserves the right to discontinue my training on reasonable grounds upon written notice to MCL and myself. Additionally, in the event my training program is discontinued for reasons attributable only to myself, I may be made to reimburse the Host Company for any/all the allowances, stipends, etc., which I may have received from them during and prior to the termination of my training program;
- i. That in addition to my liability under section g and for the pre-termination of my training program provided for under section h hereof, I may be subjected further to disciplinary action in accordance with the school's student manual and/or be a ground for disqualification from graduation;

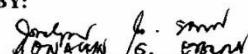
Signed on this 22nd day of May.


Emman Torrecampo
Signature over printed name of Student Trainee

WITH OUR CONSENT:

Signature over printed name of Parent/Guardian
(for minors only)

NOTED BY:



Printed Name and Signature of Practicum Adviser/ Coordinator


JOSELITO GIBOT SOL ANG
Printed Name and Signature of Host Company Representative

Appendix E. Training Plan



REVISION NO.: 00
REVISION DATE: May 10, 2016

TRAINING PLAN

NAME	Emman Torrecampo	COURSE CODE	CS199F
PROGRAM & STUDENT NO.	BSCS - 2022180027	COURSE TITLE	CS Practicum

STUDENT OUTCOMES
CO1. Identify, analyze, and recommend a solution to the computing problem being faced by the organization CO2. Apply the different concepts in Computer Science in dealing with the problem-solving process of the organization CO3. Acquire new knowledge and experience while in the organization

AREAS / PHASES OF TRAINING AND TIME ALLOTMENT
Phase 1: Project Foundation and Analysis (40hrs)
Phase 2: System Design and Architecture (60hrs)
Phase 3: Core Development - Backend (80hrs)
Phase 4: Frontend Development and Integration (72hrs)
Phase 5: Testing, Optimization, and Quality Assurance (40hrs)
Phase 6: Deployment and Knowledge Transfer (32hrs)

EVALUATION GUIDELINES & COURSE OUTCOMES	
DEMONSTRATION OF SOFT SKILLS (40%)	DEMONSTRATION OF TECHNICAL SKILLS (60%)
KEY AREAS	KEY AREAS
COMMUNICATION SKILLS (20%) Relate to co-trainees/supervisors terminologies and rules Recite procedures and instructions needed for the tasks Identify and describe safety signs and symbols Ask critical questions related to the tasks Produce well-written regular and incident reports Prepares and presents reports using Information and Communication Technology (ICT)	PROJECT ANALYSIS AND PLANNING SKILLS (15%) - Accurately identifies and documents system requirements (3%) - Designs scalable and maintainable database schema (4%) - Develops realistic project timeline and milestones (3%) - Designs responsive interfaces for multiple devices (3%) - Develops functional prototypes for stakeholder validation (2%) SOFTWARE DEVELOPMENT SKILLS (65%) - Delivers bug-free parking management modules on time (25%) - Handles concurrent user access effectively (10%) - Successfully integrates with existing school systems (5%) - Implements real-time updates for parking availability (15%) - Implements consistent design language across the application (10%) TESTING AND QUALITY ASSURANCE SKILLS (15%) - Develops and executes unit tests for individual components (5%) - Optimizes system performance based on test results (5%) - Effectively identifies and resolves system bugs (3%) - Ensures system meets performance requirements (2%) PROFESSIONAL SKILLS AND PROJECT DELIVERY (5%) - Maintains effective communication with project stakeholders (2%) - Works effectively with supervisors and mentors (1%) - Delivers project phases according to planned schedule (1%) - Successfully deploys system to production environment (1%)
PROFESSIONAL DEPARTMENT (20%) Observes proper grooming and attire Reports to work regularly on time and as necessary, even beyond prescribed working hour Acts according to the job description given by the company Willing to accept new tasks apart from the usual routine and responsibilities Delivers quality output on time Demonstrates respect for different individuals	INITIATIVE (+5%) Volunteers to perform tasks beyond routine tasks
INITIATIVE (+5%) Volunteers to perform tasks beyond routine tasks	

CONFORME	CONSENT (FOR MINORS ONLY)	NOTED BY	ENDORSED BY	APPROVED BY			
	SIGNATURE OVER PRINTED NAME OF STUDENT / DATE		Joselito Estefanone SIGNATURE OVER PRINTED NAME OF PRACTICUM SUPERVISOR / DATE		Joseph G. Sison SIGNATURE OVER PRINTED NAME OF PRACTICUM ADVISER / DATE		Jenny G. Tan SIGNATURE OVER PRINTED NAME OF PROGRAM CHAIR / DATE

COPY: (1) STUDENT: (2) HOST COMPANY: (3) PRACTICUM COORDINATOR

6/3/18 FORM MAPUA-0300

Appendix G. Daily Time Records



DAILY TIME RECORD*

REVISION NO.: 00
REVISON DATE: May 10, 2016

NAME OF STUDENT		NAME OF HOST COMPANY/DEPARTMENT ASSIGNED TO							
NAME OF STUDENT	Emman Torrecampo	MONTH	ITSO MMCL						
MONTH	May	MONTH	June						
DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGRSPVSR INITIALS	DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGRSPVSR INITIALS
1					1				
2					2	8:00 AM	5:00 PM	8 hrs	JESL
3					3	8:00 AM	5:00 PM	8 hrs	JESL
4					4	8:00 AM	5:00 PM	8 hrs	JESL
5					5	8:00 AM	5:00 PM	8 hrs	JESL
6					6	8:00 AM	5:00 PM	8 hrs	JESL
7					7				
8					8				
9					9	8:00 AM	5:00 PM	8 hrs	JESL
10					10	8:00 AM	5:00 PM	8 hrs	JESL
11					11	8:00 AM	5:00 PM	8 hrs	JESL
12					12	8:00 AM	5:00 PM	8 hrs	JESL
13					13	8:00 AM	5:00 PM	8 hrs	JESL
14					14				
15					15				
16					16	8:00 AM	5:00 PM	8 hrs	JESL
17					17	8:00 AM	5:00 PM	8 hrs	JESL
18					18	8:00 AM	5:00 PM	8 hrs	JESL
19					19	8:00 AM	5:00 PM	8 hrs	JESL
20					20	8:00 AM	5:00 PM	8 hrs	JESL
21					21				
22					22				
23					23	8:00 AM	5:00 PM	8 hrs	JESL
24					24	8:00 AM	5:00 PM	8 hrs	JESL
25					25	8:00 AM	5:00 PM	8 hrs	JESL
26	8:00 AM	5:00 PM	8hrs	JESL	26	8:00 AM	5:00 PM	8 hrs	JESL
27	8:00 AM	5:00 PM	8hrs	JESL	27	8:00 AM	5:00 PM	8 hrs	JESL
28	8:00 AM	5:00 PM	8hrs	JESL	28				
29	8:00 AM	5:00 PM	8hrs	JESL	29				
30	8:00 AM	5:00 PM	8hrs	JESL	30	8:00 AM	5:00 PM	8 hrs	JESL
31					31				

VERIFIED BY:
Josette Elben I. Sol Cruz
Signature over printed name of Practicum Supervisor

JUL 20 2015
Date

* To be validated once a week by the Practicum Adviser/Coordinator
** This may be replaced by the DTR officially used by the company

COPY: (1) STUDENT; (2) HOST COMPANY; (3) PRACTICUM ADVISER

THIS FORM IS AVAILABLE AT THE OPMAA.
FORM OMPAA 030H



DAILY TIME RECORD*

REVISION NO.: 00
REVISION DATE: May 10, 2016

NAME OF STUDENT		Emman Torrecampo		NAME OF HOST COMPANY/ DEPARTMENT ASSIGNED TO		ITSO MMCL			
MONTH		July		MONTH					
DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS	DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS
1	8:00 AM	5:00 PM	8 hrs	JESL	1				
2	8:00 AM	5:00 PM	8 hrs	JESL	2				
3	8:00 AM	5:00 PM	8 hrs	JESL	3				
4	8:00 AM	5:00 PM	8 hrs	JESL	4				
5					5				
6					6				
7	8:00 AM	5:00 PM	8 hrs	JESL	7				
8	8:00 AM	5:00 PM	8 hrs	JESL	8				
9	8:00 AM	5:00 PM	8 hrs	JESL	9				
10	8:00 AM	5:00 PM	8 hrs	JESL	10				
11	8:00 AM	5:00 PM	8 hrs	JESL	11				
12					12				
13					13				
14	8:00 AM	5:00 PM	8 hrs	JESL	14				
15	8:00 AM	5:00 PM	8 hrs	JESL	15				
16	8:00 AM	5:00 PM	8 hrs	JESL	16				
17	8:00 AM	5:00 PM	8 hrs	JESL	17				
18	8:00 AM	5:00 PM	8 hrs	JESL	18				
19					19				
20					20				
21	8:00 AM	5:00 PM	8 hrs	JESL	21				
22					22				
23					23				
24					24				
25					25				
26					26				
27					27				
28					28				
29					29				
30					30				
31					31				

VERIFIED BY

Joselito Elben I. Sol Cruz

Signature over printed name of Practicum Supervisor

JUL 17 2015

Date

* To be validated once a week by the Practicum Adviser/ Coordinator
** This may be replaced by the DTR officially used by the company

Appendix F. Compiled Daily Journal



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	5/26/2025	AREA ASSIGNMENT	Project Analysis
TASK	Stakeholder interview and site assessment	SHIFT/TIME	8AM - 5PM

Today is the official start of my OJT. I was introduced to the team that I'm going to be working with. I was assigned on the development of the parking system that would be implemented at MMCL. Before I start with anything, I would need to interview our stakeholders to figure out what was the purpose of creating the system in the first place. I first observed the parking situation at our school. I then started interviewing car owners to know what are the current problems with our current parking system.

I then started interviewing car owners to know what are the current problems with our current parking system.


TRAINEE'S SIGNATURE

COPY: (1) STUDENT; (2) PRACTICUM ADVISER

FORM OVPAA 030G

THIS FORM IS AVAILABLE AT THE OVPAA.



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	05/27/2025	AREA ASSIGNMENT	Project Analysis
TASK	Stakeholder interview and Requirements Gathering	SHIFT/TIME	8:00AM - 5:00AM

I continued interviewing our stakeholders for the half of the day. I interviewed the IT director and security personnel regarding the current situation of our parking system. For the rest of the day, I started working on the requirement specification document. I summarized my findings based on the interviews and listed the functions that would benefit all users.

TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	May 28, 2025	AREA ASSIGNMENT	Project Analysis
TASK	Requirements Specification Document	SHIFT/TIME	8:00 AM - 5:00 PM

For the entire day, I was working on the document. I identified the functional and non-functional requirements for the parking management system. All the details are based from the interviews conducted from the previous days.


TRAINEE'S SIGNATURE



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	May 29, 2025	AREA ASSIGNMENT	Project Analysis
TASK	Requirements Specification Document	SHIFT/TIME	8:00 AM - 5:00 PM

For the half of the day, I was finishing up on the specification document. I included use cases and acceptance criteria to the document. After I finished it, I submitted it and get it checked by my supervisor to finalize the details. Once done, I started working on some research. I looked into existing systems that are being used by other companies. I also looked into similar open source projects.

A rectangular box intended for the trainee's handwritten signature.

TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	May 30, 2025	AREA ASSIGNMENT	Project Analysis
TASK	Research	SHIFT/TIME	8:00 AM - 5:00 PM

The entire day was used to do the competitive analysis. I compared the systems that I found yesterday using a feature analysis. I also took note of the prices (if any) for considerations. After that I moved on to research the technical side of the system. I research what are the most commonly used language when creating such systems. I also noted what frameworks to use for web and mobile developments. I also researched what are the recommended language, frameworks, and process based on the type of development we're making.

TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 2, 2025	AREA ASSIGNMENT	System Design and Architecture
TASK	Design High-Level System Architecture	SHIFT/TIME	8:00 AM - 5:00 PM

This week is the start of designing the system and its architecture. I had to define the system layers as well as the technologies that would be utilized for the system. I spent all day working on this document.


TRAINEE'S SIGNATURE

TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 3, 2025	AREA ASSIGNMENT	System Design and Architecture
TASK	Design High-Level System Architecture	SHIFT/TIME	8:00 AM - 5:00 PM

Today, I started working on the system design diagrams. Each component of the system needs to be identified and defined properly. Then I created the system flow charts.


TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 4, 2025	AREA ASSIGNMENT	System Design and Architecture
TASK	Database Design	SHIFT/TIME	8:00 AM - 5:00 PM

I finished and finalized the system flow charts that I was working on yesterday for half the day. For the rest of the day, I started working on our database design. I went back to my previous interviews and system requirements to create the ERDs for the parking management system.


TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 5, 2025	AREA ASSIGNMENT	System Design and Architecture
TASK	Database Design	SHIFT/TIME	8:00 AM - 5:00 PM

I consulted my supervisors on what the database would be like. I also reviewed how they create their databases from their previous projects to have uniformity in their systems, so that I can utilize their pre-made queries. I was working on this for the entire day.


TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 6, 2025	AREA ASSIGNMENT	System Design and Architecture
TASK	Database Design	SHIFT/TIME	8:00 AM - 5:00 PM

Today is my last day in working on the database. I have my supervisors review my ERDs to ensure that everything is up to their standards. I also made sure that the relationships between each entities works as it was supposed to. For the rest of the day, I was finalizing the database design.


TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 9, 2025	AREA ASSIGNMENT	System Design and Architecture
TASK	User Interface Design	SHIFT/TIME	8:00 AM - 5:00 PM

Today is the day that I'm going to work on our UI/UX. I utilized figma to create the wireframes.

I plan to design multiple versions to let my supervisors have some choices on the design. I created a UI for the landing page, login page, and main dashboard.


TRAINEE'S SIGNATURE

TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 10, 2025	AREA ASSIGNMENT	System Design and Architecture
TASK	User Interface Design	SHIFT/TIME	8:00 AM - 5:00 PM

I continued working on the UI task from yesterday. For half of the day, I was finalizing the designs that I would present to my supervisors. After lunch time, I let them review the designs and took notes on their feedback. For the rest of the day, I was working on the feedback and comments that I received. By the end of the day, I finalized the revisions and they approved on the design.

TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 11, 2025	AREA ASSIGNMENT	Backend Development
TASK	Design and Implement Authentication Mechanism	SHIFT/TIME	8:00 AM - 5:00 PM

I was working on the authentication and authorization mechanism the system would have for the half of the day. It was necessary since the system would have multiple user with varying degrees of access. In the afternoon, I started working on the implementation part.

TRINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 12, 2025	AREA ASSIGNMENT	Backend Development
TASK	Authentication and User Management	SHIFT/TIME	8:00 AM - 5:00 PM

Today, I'm working on the profile management features for each user. They need to have their own features, since they would be using the system differently. A feature for the other wouldn't be necessarily useful for the rest. I also consulted my supervisors and my documents on what kinds of features would each users have.

TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 13, 2025	AREA ASSIGNMENT	Backend Development
TASK	Authentication and User Management	SHIFT/TIME	8:00 AM - 5:00 PM

Today is all about finalizing the authentication and user management functions. I need to add some password recovery for some users as well as to implement some security features. I asked my supervisors to review my code and with some revisions, it's good to go.

TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 16, 2025	AREA ASSIGNMENT	Backend Development
TASK	Core Functionality Development	SHIFT/TIME	8:00 AM - 5:00 PM

This week's task is to develop the core functionalities of the parking management system. I would be working on the reservation module today. The data would come from a separate application but our system would access said data on a shared database. I was working on this for the entire day.


TRAINEE'S SIGNATURE

TRAINEE'S SIGNATURE



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 17, 2025	AREA ASSIGNMENT	Backend Development
TASK	Core Functionality Development	SHIFT/TIME	8:00 AM - 5:00 PM

Today, I focused on building the real-time tracking system for parking slot availability.

Using WebSocket connections and Redis caching, I implemented an event-driven architecture that broadcasts slot status changes instantly to all connected clients. I also added heartbeat monitoring to maintain data consistency and connection stability. This ensures that parking attendants always see the most up-to-date slot availability across the system in real time.



TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 18, 2025	AREA ASSIGNMENT	Backend Development
TASK	Core Functionality Development	SHIFT/TIME	8:00 AM - 5:00 PM

I worked on the logic for monitoring and tracking reservation data. Although the system does not process or create reservations directly, it now displays and organizes reservation records coming from the backend database. I implemented time-slot recognition and slot linking so attendants can view which slots are reserved and during what time frame. I also added safeguards to prevent overlapping display of conflicting reservation entries, ensuring clarity during active parking hours.

TRINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 19, 2025	AREA ASSIGNMENT	Backend Development
TASK	Core Functionality Development	SHIFT/TIME	8:00 AM - 5:00 PM

Development today focused on implementing features that allow attendants to modify or cancel tracked reservation entries based on predefined rules. The system now respects time-based conditions, such as editing cutoffs or cancellation flags, though actual reservation enforcement is handled outside the application. I also optimized the database queries to improve the performance of these operations, particularly for parking areas with high slot turnover.

TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 20, 2025	AREA ASSIGNMENT	Backend Development
TASK	Core Functionality Development	SHIFT/TIME	8:00 AM - 5:00 PM

I reviewed potential future features and explored integrations for billing and payment, though these were not included in the actual deployment. As part of a feasibility test, I attempted to integrate Stripe payment APIs and set up sample logic for billing computation. While this functionality remains unused in the current version, the groundwork was documented and archived in case ITSO decides to add payment features later.

TRAINEE'S SIGNATURE



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 23, 2025	AREA ASSIGNMENT	Backend Development
TASK	Core Functionality Development	SHIFT/TIME	8:00 AM - 5:00 PM

I began implementing support modules such as transaction history and system logging. These do not reflect actual payments but instead log booking and check-in/check-out events for administrative use. I created a structured logging format for future integration with audit tools and built downloadable reports for staff to review activity records. This helps in maintaining transparency and accountability for daily operations.



TRAINEE'S SIGNATURE



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 24, 2025	AREA ASSIGNMENT	Backend Development
TASK	Notifications and Reporting	SHIFT/TIME	8:00 AM - 5:00 PM

Today, I integrated third-party services to enable notification tracking. While the system does not send SMS or emails directly, I set up placeholders using Twilio and SendGrid for future integration. The system now includes settings that allow administrators to configure user alert preferences and delivery methods, preparing the application for potential expansion into automated notification support.

A handwritten signature is placed over a rectangular box.

TRINEE'S SIGNATURE



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 25, 2025	AREA ASSIGNMENT	Backend Development
TASK	Notifications and Reporting	SHIFT/TIME	8:00 AM - 5:00 PM

I developed the administrative reporting dashboard using Chart.js to visualize data such as occupancy rates, usage patterns, and check-in/check-out trends. I also added basic scheduling for daily and weekly data exports via email, though the email service remains disabled by default. In preparation for possible future migration to a web-based version, I began setting up a frontend structure using React, TypeScript, and Tailwind CSS.



TRAINEE'S SIGNATURE



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 26, 2025	AREA ASSIGNMENT	Frontend Development
TASK	User-Interface Development	SHIFT/TIME	8:00 AM - 5:00 PM

Frontend layout development continued today, with a focus on responsive design. I built the main navigation components and configured routing logic for both desktop and mobile screens. I also tested component rendering across multiple screen sizes to ensure the interface remains consistent and accessible on all devices.



TRINEE'S SIGNATURE



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 27, 2025	AREA ASSIGNMENT	Frontend Development
TASK	User-Interface Development	SHIFT/TIME	8:00 AM - 5:00 PM

Today was focused on refining the user interface for desktop use. I improved layout consistency, standardized component alignment, and enhanced the overall visual structure to ensure a smooth experience on Windows desktop environments. Special attention was given to optimizing form inputs, button placements, and tab navigation for keyboard and mouse users. I also addressed UI responsiveness within the constraints of various screen resolutions, ensuring the application remains clear and user-friendly across different monitor sizes.



TRINEE'S SIGNATURE



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 30, 2025	AREA ASSIGNMENT	Frontend Development
TASK	User-Interface Development	SHIFT/TIME	8:00 AM - 5:00 PM

I completed the integration of WebSocket connections in the UI to reflect real-time slot status changes.

I developed an interactive visual map of the parking lot with animated indicators for each slot.

The application now includes a real-time occupancy counter and alerts to notify attendants when a reserved slot becomes vacant or occupied, improving situational awareness and reducing manual monitoring.

A rectangular box containing a handwritten signature.

TRAINEE'S SIGNATURE



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 1, 2025	AREA ASSIGNMENT	Frontend Development
TASK	User-Interface Development	SHIFT/TIME	8:00 AM - 5:00 PM

I refined the user interaction flow for managing tracked reservations. While users cannot create bookings through the app, I designed a multi-step display process to help attendants quickly identify active reservations, check-in statuses, and time conflicts. I also added validation messages and error alerts to handle inconsistencies in reservation data from the backend.

A handwritten signature is placed over a rectangular box.

TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 2, 2025	AREA ASSIGNMENT	Frontend Development
TASK	User-Interface Development	SHIFT/TIME	8:00 AM - 5:00 PM

To wrap up this development phase, I created the user dashboard for internal staff use. This includes a log of tracked reservations, search and filter tools, and profile settings for attendants. I also implemented options for adjusting interface preferences and saving frequently used filters. Lastly, I added a simple feedback form to collect usability suggestions from future users for continuous improvement.

Frank J. Hammock

TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 3, 2025	AREA ASSIGNMENT	Frontend Development
TASK	UI/UX	SHIFT/TIME	8:00 AM - 5:00 PM

Today, I conducted a full review of the system's features to identify minor bugs and inconsistencies.

I focused on UI adjustments, fixed alignment issues, and cleaned up form field behaviors for better data entry. I also reviewed the check-in/check-out workflows to ensure logical accuracy and edge-case handling.

Minor refactoring was done to simplify some of the existing C# functions and improve code readability.

TRAINER'S SIGNATURE

TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 4, 2025	AREA ASSIGNMENT	Frontend Development
TASK	UI/UX	SHIFT/TIME	8:00 AM - 5:00 PM

I finalized updates for system stability, focusing on error handling and exception logging. I added structured try-catch blocks to high-risk methods and ensured that unexpected user input is handled gracefully. I also created a basic system log file mechanism that records actions such as user login, check-in/check-out events, and reservation tracking operations, which can be used for future auditing or debugging.

TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 7, 2025	AREA ASSIGNMENT	Frontend Development
TASK	UI/UX	SHIFT/TIME	8:00 AM - 5:00 PM

I began preparing documentation for the Parking Management application. This included drafting a user manual with screenshots and step-by-step usage instructions tailored for the parking attendants. I also started writing technical documentation, outlining the system architecture, database schema, and key backend logic for future reference by ITSO.


TRAINEE'S SIGNATURE

✓ TRAINEE'S SIGNATURE



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 8, 2025	AREA ASSIGNMENT	Frontend Development
TASK	Documentation	SHIFT/TIME	8:00 AM - 5:00 PM

Work on the documentation continued, with focus on the installation guide and system setup procedures.

I detailed how to configure the PostgreSQL database, set up the .NET environment, and deploy the application on a Windows machine. I also documented the process for backing up and restoring data, emphasizing the importance of database maintenance for long-term use.

TRAINEE'S SIGNATURE



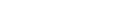
DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 9, 2025	AREA ASSIGNMENT	System Testing
TASK	Optimization and Refinements	SHIFT/TIME	8:00 AM - 5:00 PM

Today, I created diagrams for system flow and database structure to complement the documentation. This included use-case diagrams, activity flows, and an ERD (Entity Relationship Diagram) to visualize how data flows through the application. These visuals are intended to help ITSO staff and future developers quickly understand the logic behind the system.

 Jennifer K.

TRAINEE'S SIGNATURE



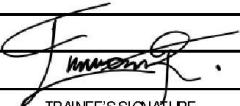
DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 10, 2025	AREA ASSIGNMENT	System Testing
TASK	Optimization and Refinements	SHIFT/TIME	8:00 AM - 5:00 PM

I conducted internal testing on a fresh environment to simulate deployment conditions. This involved installing the system from scratch, restoring the database, and testing functionality without development tools. I logged any environment-specific issues encountered and updated the documentation accordingly. The system was confirmed to run reliably outside the development machine.



TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 11, 2025	AREA ASSIGNMENT	System Testing
TASK	Optimization and Refinements	SHIFT/TIME	8:00 AM - 5:00 PM

The day was spent finalizing all user-facing content. I polished the UI text for clarity, corrected any label inconsistencies, and ensured a professional tone throughout the application. I also created printable cheat sheets for attendants, highlighting common actions and shortcuts for quicker adoption. All resources were organized and prepared for turnover.

All resources were organized and prepared for turnover.

 Jennifer L. Johnson

TRAINEE'S SIGNATURE



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 14, 2025	AREA ASSIGNMENT	System Testing
TASK	Optimization and Refinements	SHIFT/TIME	8:00 AM - 5:00 PM

I began preparing the project for turnover. I cleaned up the codebase, removed temporary files and test data, and organized all project directories. I also compiled all documentation files, diagrams, and working files into a single structured package. This ensures ITSO will have access to everything necessary for further maintenance or enhancements.

A handwritten signature in black ink, appearing to read 'J. Hernandez'.

TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 15, 2025	AREA ASSIGNMENT	System Testing
TASK	Optimization and Refinements	SHIFT/TIME	8:00 AM - 5:00 PM

I performed another round of system checks to ensure stability and consistency. This included running validation routines, testing form submissions, and simulating multiple check-in/check-out events. No major issues were found, and small visual polish tasks were completed to improve the user experience. I also began drafting the turnover notes for ITSO.


JENNIFER R.
TRAINEE'S SIGNATURE

TRAINEE'S SIGNATURE



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 16, 2025	AREA ASSIGNMENT	Deployment
TASK	Documentation and Handover	SHIFT/TIME	8:00 AM - 5:00 PM

The turnover notes were completed, detailing the project summary, environment setup, known limitations, and suggested improvements for future development. I included annotated screenshots of key features and highlighted areas in the code where enhancements or additional modules could be integrated if desired by ITSO.

A handwritten signature in black ink, appearing to read "J. M. Sison".

TRANEES SIGNATURE



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 17, 2025	AREA ASSIGNMENT	Deployment
TASK	Documentation and Handover	SHIFT/TIME	8:00 AM - 5:00 PM

I met with ITSO personnel to discuss the handoff process. I walked them through the application's usage, discussed how to install and maintain the system, and answered questions regarding backend configuration. I also demonstrated how to modify static data like slot assignments or reservation records, which may change over time.

A handwritten signature in black ink, appearing to read 'J. M. M. R.' or a similar variation, is placed over a rectangular box.

TRAINEE'S SIGNATURE



DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
 - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS .
 - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 18, 2025	AREA ASSIGNMENT	Deployment
TASK	Documentation and Handover	SHIFT/TIME	8:00 AM - 5:00 PM

Following the handoff meeting, I updated the documentation based on feedback from ITSO. Minor adjustments were made to clarify installation steps and explain fallback procedures. I also tested the backup and restore process one final time to ensure that the system can be safely recovered in case of data loss.


JENNIFER M. JOHNSON

TRAINEE'S SIGNATURE



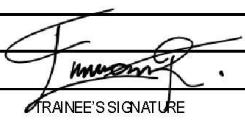
DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 21, 2025	AREA ASSIGNMENT	Deployment
TASK	Documentation and Handover	SHIFT/TIME	8:00 AM - 5:00 PM

On this day, I officially turned over all final working files to ITSO. This included the source code, compiled executable, database backups, documentation folders, and visual diagrams. ITSO now has full access to the system and may decide to retain the current version or extend it further depending on future requirements. With all deliverables submitted, I concluded the development phase of my internship project.



TRAINEE'S SIGNATURE