**MINISTRY OF SCIENCE AND TECHNOLOGY**

**University Of Computer Studies (Mandalay)**

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**Log Book for Internship**

**Name: Mg Hein Htet Aung**

**Roll No: KPTM-11037**

**Academic Year : 2024-2025**

**Internship Company: Nexacore IT Solution (Mandalay)**

**Internship Record**

**Start Date: 2.5.2025 (FRI:)**

**End Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Company/Industry Name: Nexacore IT Solution (Mandalay)**

**Address: 59C,17x18st Mandalay**

**Email Address:** [**nexacore.it.solution@outlook.com**](mailto:nexacore.it.solution@outlook.com)

**Phone Number: (+95) 997-752-5810**

**Student’s Name: Mg Hein Htet Aung**

**NRC Number: 5/MAYANA(N)327873**

**Roll No: KPTM-11037**

**Father Name: U Myat Win Aung**

**Phone Number: 09793568383, 09958169386**

**Contact Person Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Phone Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Daily / Weekly Log**

Week ( 1 )

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| **Date** | **Description about Task assigned** | **Remark** |
| 2.5.2025(FRI) | Tested the ability for coding and let us to try the basic coding paradigm and syntax, necessary for the project |  |

Reflection: What was learned during the Week.

* **Familiarity with coding syntax:** Gained experience with basic programming syntax used in the Javascript language such as variable declaration, loops and functions)
* **Understanding of coding paradigms:** Learned foundational concepts such as procedural programming, object-oriented principles or functional programming

Supervisor Comment

This week, **Hein Htet Aung** demonstrated a solid understanding of foundational programming concepts by effectively testing and applying essential coding paradigms and syntax relevant to the project. His proactive approach, enthusiasm for learning, and ability to quickly adapt to new challenges are highly commendable. I highly recommend continued involvement in more advanced development tasks, as Hein Htet Aung has shown himself to be a **bright and excellent student** with exceptional potential. His performance this week reflects the qualities of a future standout professional in the tech industry.

Signature:  Signature: 

Student Name: Hein Htet Aung Supervisor Name: Thet Htet Soe

**Daily / Weekly Log**

Week ( 2 )

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| **Date** | **Description about Task assigned** | **Remark** |
| 5.5.2015(MON) | Learned about HTTP, API fetching, Git |  |
| 6.5.2025(TUE) | Learned about Synchronous and Asynchronous Concepts with API |  |
| 7.5.2025(WED) | Learned about the different kind of data type, and behavior of functions |  |
| 8.5.2025(THU) | Learned about Methods of String and Array, JSON, Javascript Objects and Classes and TryCatch |  |
| 9.5.2025(FRI) | Learned about Node Package Manager (NPM) and Node Version Manager (NVM) |  |

Reflection: What was learned during the Week.

Core Web and Development Tools

* Gained foundational understanding of HTTP and how the fetch API is used for retrieving data from the servers
* Learned how to use Git for version control and collaboration

Programming Concepts

* Explored the difference between synchronous and asynchronous code execution, especially in the context of API calls
* Developed understanding of various data types and how functions behave in javascript

Node js Environment

* Discovered how to manage packages using NPM and how to manage versions using NVM

Supervisor Comment

During this week, **Hein Htet Aung** made significant progress in his technical learning journey. He explored key web development concepts, including **HTTP protocols, API fetching techniques, and version control using Git**. He further deepened his understanding of **synchronous and asynchronous operations with APIs**, which are crucial for modern web applications.

He also strengthened his grasp of **JavaScript fundamentals**, covering **data types, function behaviors, string and array methods, JSON, object-oriented programming, and error handling using try-catch blocks**. Toward the end of the week, he familiarized himself with essential development tools such as **Node Package Manager (NPM)** and **Node Version Manager (NVM)**.

Throughout these sessions, Hein Htet Aung demonstrated strong curiosity, consistent effort, and a proactive attitude toward learning. He continues to excel and show great promise as a future developer. I **highly recommend** him for more advanced tasks and collaborative projects, as he clearly exhibits the skills and mindset of a **bright and outstanding student**.

Signature:  Signature: 

Student Name: Hein Htet Aung Supervisor Name: Thet Htet Soe

**Daily / Weekly Log**

Week ( 3 )

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| **Date** | **Description about Task assigned** | **Remark** |
| 14.5.2025(WED) | Modules in Javascript(CommonJS and ES6),  Binding Methods |  |
| 15.5.2025(THU) | Node.js (Basic Concepts) |  |
| 16.5.2025(FRI) | React.js (CLI Tools, Vites, Components, JSX, Porps, State, Conditional Rendering, Composition, Rendering Composition |  |

Reflection: What was learned during the Week.

Javascript Modules and Binding Methods

* Learned the difference between Common JS and ES6 modules and how they are used to structure and share code
* Explored method binding in Javascript especially in the context of maintaining the correct “ this ” context in function

Node.js Basics

* Understood the core concepts of Node.js including its event-driven architecture and non-blocking I/O model

React.js Fundamental

* Gained hands-on experience with React CLI tools and Vite for project map.
* Learned about React components especially functional components and how to use JSX
* Explored the difference between props and state and how to implement conditional rendering
* Studied component composition component lifecycle methods, rendering lists with keys and concepts of render props for flexible UI design

Supervisor Comment

This week, **Hein Htet Aung** showcased remarkable progress in mastering both core and advanced development concepts. He began by studying **JavaScript module systems**, including **CommonJS and ES6**, and deepened his understanding of **method binding**, a key concept in function context and behavior.

He then built a solid foundation in **Node.js**, grasping essential backend principles, before transitioning into **React.js**. There, he effectively learned to work with **CLI tools, Vite, components, JSX, props, state management, conditional rendering, and component composition**.

Hein Htet Aung continues to display a **high level of technical aptitude**, strong analytical thinking, and an ability to absorb complex topics with ease. His consistent performance reflects a **mature and capable developer in the making**. I **strongly recommend** assigning him more challenging tasks and collaborative opportunities to further refine his skills and practical experience.

Signature:  Signature: 

Student Name: Hein Htet Aung Supervisor Name: Thet Htet Soe

**Daily / Weekly Log**

Week ( 4 )

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| **Date** | **Description about Task assigned** | **Remark** |
| 19.5.2025(MON) | React (Event, Higher Order Functions, useRef, useState) |  |
| 20.5.2025(TUE) | Practical ( Fetching API using the framework Axios, Create CRUD onto the array using useState ) |  |
| 21.5.2025(WED) | useContext, Practical (ToDoList using useState, useContext with Tailwind CSS ) |  |

Reflection: What was learned during the Week.

Axios (HTTP Requests in React)

* Practiced using Axios, a promise-based HTTP client for the browser. Implemented API calls using axios.get(), axios.post(), axios.put(), and axios.delete().
* Learned to handle asynchronous operations using async/await, and implemented loading states, error handling, and state updates based on API responses.

CRUD Operations Using useState

* Built a mini-application that supports Create, Read, Update, and Delete functionality on a data array stored in component state. Key concepts practiced:
  + Immutably updating arrays using map and filter
  + Using array ids to uniquely identify and modify items
  + Implementing controlled components for form input
  + Efficient state updating patterns and UI feedback

Practical Project : To Do List App

* Developed a fully functional To Do List application using:
  + useState for managing individual task data.
  + useContext for sharing global state between components.
  + Clean component structuring and reusability (e.g., separate components for Recod, RecordList, InputTask ).

Supervisor Comment

This week, **Hein Htet Aung** continued to build on his React.js proficiency with both conceptual learning and practical application. He explored advanced React concepts including **event handling, higher-order functions, and the use of React hooks such as useRef and useState**.

On the second day, he applied his knowledge in a hands-on task by using the **Axios** framework to perform **API fetching** and developing basic **CRUD functionality using useState** within an array structure—demonstrating his ability to integrate logic with user interaction effectively.

He wrapped up the week by learning about **useContext** for global state management and reinforcing this concept through a practical **To-Do List project**, which incorporated **Tailwind CSS** for responsive styling and component design.

Hein Htet Aung continues to demonstrate **strong technical competency, problem-solving skills, and a proactive mindset**. His ability to translate theoretical knowledge into functional, real-world applications shows that he is an **adaptable and reliable emerging developer**. I **confidently recommend** expanding his responsibilities to include more complex project components and collaborative development tasks.

Signature:  Signature: 

Student Name: Hein Htet Aung Supervisor Name: Thet Htet Soe

**Daily / Weekly Log**

Week ( 5 )

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| **Date** | **Description about Task assigned** | **Remark** |
| 29.5.2025(THU) | Developing the UI design using with Tailwind framework and React Router |  |
| 30.5.2025(FRI) | Company’s Excursion trip (Day off) |  |

Reflection: What was learned during the Week.

**1. Tailwind CSS**

* How to use utility-first classes to build responsive and modern UI components.
* Applying Tailwind classes for layout (flex, grid), spacing (p-, m-, gap-), typography, colors, and responsiveness.
* Reusability with custom utility classes or component-based styling.

**2. React Router**

* Implementing routing in a React app using react-router-dom.
* Creating navigation between pages without full page reloads.
* Understanding how to use:
  + <BrowserRouter>, <Routes>, and <Route> for route configuration.
  + useNavigate() for programmatic navigation.
  + Link or NavLink for declarative routing.

**3. Integrating Design and Routing**

* Structuring your React project with a proper layout (e.g., Navbar, Sidebar, Main Content).
* Ensuring components render conditionally based on the current route.
* Styling route-based views using Tailwind for a consistent look and feel.

Supervisor Comment

Hein Htet Aung has made solid progress this week by focusing on UI development using Tailwind CSS and React Router. He demonstrated a clear understanding of responsive design principles and effectively applied utility-first classes to build clean, modern interfaces. Additionally, his implementation of React Router shows he is becoming more confident in managing navigation within a React application.

I appreciate his attention to component structure and his ability to integrate styling with functional routing logic. Going forward, I encourage him to explore component reusability and consider maintaining consistency across different route-based views.

Overall, Hein Htet Aung is showing strong growth in front-end development and is on the right track. Keep up the good work.

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Student Name: Hein Htet Aung Supervisor Name: Thet Htet Soe

**Daily / Weekly Log**

Week ( 6 )

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| **Date** | **Description about Task assigned** | **Remark** |
| 12.6.2025(THU) | Learned about Express.js, mongoose driver, mongo database and nodemon with ThunderClient for testing backend processing  And Developed the hand-on CRUD exercises with Mongo Database. |  |
| 13.6.2025(FRI) | Developed Login / Logout System with Mongo Database using tools like JWT, and Bcrypt for security |  |

Reflection: What was learned during the Week.

**Technologies Explored:**

* **Express.js** – Backend web framework for Node.js.
* **Mongoose** – ODM (Object Data Modeling) library for MongoDB.
* **MongoDB** – NoSQL database used to store and retrieve data.
* **Nodemon** – Tool for automatically restarting the server during development.
* **Thunder Client** – REST client (VS Code extension) used for testing APIs.

**Hands-on Practice:**

* Built **CRUD operations** (Create, Read, Update, Delete) using MongoDB and Express.
* Practiced full-stack backend logic and database interaction.

Supervisor Comment

Hein Htet Aung has shown strong progress and initiative this week. He successfully grasped core backend development concepts, including Express.js, Mongoose, and MongoDB. He demonstrated the ability to develop and test a full set of CRUD operations, integrating backend logic with database handling effectively.

Moreover, he took a significant step forward by implementing a secure user authentication system using JWT and Bcrypt, showcasing a solid understanding of modern security practices. His use of tools like Thunder Client and Nodemon for debugging and testing reflects his growing efficiency and professionalism in backend development.

Overall, Hein Htet Aung continues to demonstrate a strong learning attitude, good technical competency, and the ability to apply new knowledge effectively. Great progress this week.

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Student Name: Hein Htet Aung Supervisor Name: Thet Htet Soe

**Daily / Weekly Log**

Week ( 7 )

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| **Date** | **Description about Task assigned** | **Remark** |
| 16.6.2025(MON) | Developed the CRUD API using Thunder Client Tool to test the backend API  And then combine the Frontend UI and Backend API for the CRUD processes |  |
| 17.6.2025(TUE) | Developed the file upload program to the Backend API and then draw back to the frontend |  |
| 18.6.2025(WED) | Designed and developed the image upload and user login and logout models Finished the complete version of library System |  |

Reflection: What was learned during the Week.

#### ****1. Backend Development & API Testing****

* Gained experience in creating **CRUD (Create, Read, Update, Delete)** APIs using **Node.js/Express**.
* Learned how to use **Thunder Client** (a VS Code extension) to test backend routes effectively.
* Understood the flow of HTTP methods (GET, POST, PUT, DELETE) and how they interact with MongoDB.

#### ****2. Full Stack Integration****

* Integrated backend APIs with the frontend React UI.
* Learned how to structure frontend code to send data to and receive data from the backend.
* Understood asynchronous data flow using fetch or axios.

#### ****3. File/Image Upload Handling****

* Implemented **file upload** functionality using **Multer** in Express.js.
* Learned how to handle multipart/form-data in both frontend and backend.
* Displayed uploaded images in the frontend after uploading them to the server.

#### ****4. Authentication & Session Management****

* Developed **user login and logout** functionality.
* Learned about storing user authentication state (e.g., using Recoil, localStorage, or cookies).
* Understood protected routes and access control based on login status.

#### ****5. Completion of a Full Project****

* Designed and completed a **Library Management System**, combining CRUD operations, file uploads, and user authentication.
* Learned how to structure a complete MERN (MongoDB, Express, React, Node.js) project from backend to frontend.

Supervisor Comment

Hein Htet Aung has shown commendable progress and initiative this week. He successfully developed and tested the core backend CRUD APIs using Thunder Client and effectively integrated them with the frontend, demonstrating solid full-stack development skills.

He also implemented a reliable file and image upload system and tackled user authentication by developing login/logout functionalities. His ability to complete the full version of the Library Management System within the week shows strong time management and technical capability.

Overall, Hein is making steady and consistent progress, applying learned concepts effectively in real-world development. I encourage him to continue refining code quality, security, and user experience as he moves forward.

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Student Name: Hein Htet Aung Supervisor Name: Thet Htet Soe

**Daily / Weekly Log**

Week ( 8 )

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| **Date** | **Description about Task assigned** | **Remark** |
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Reflection: What was learned during the Week.

Supervisor Comment

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Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Supervisor Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Daily / Weekly Log**

Week ( 9 )

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| **Date** | **Description about Task assigned** | **Remark** |
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Reflection: What was learned during the Week.

Supervisor Comment

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Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Supervisor Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Daily / Weekly Log**

Week ( 10 )

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| **Date** | **Description about Task assigned** | **Remark** |
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Reflection: What was learned during the Week.

Supervisor Comment

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Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Supervisor Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Daily / Weekly Log**

Week ( 11 )

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| **Date** | **Description about Task assigned** | **Remark** |
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Reflection: What was learned during the Week.

Supervisor Comment

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Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Supervisor Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Daily / Weekly Log**

Week ( 12 )

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| **Date** | **Description about Task assigned** | **Remark** |
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Reflection: What was learned during the Week.

Supervisor Comment

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Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Supervisor Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Daily / Weekly Log**

Week ( 13 )

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Reflection: What was learned during the Week.

Supervisor Comment

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Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Supervisor Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Daily / Weekly Log**

Week ( 14 )

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Reflection: What was learned during the Week.

Supervisor Comment

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Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Supervisor Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Daily / Weekly Log**

Week ( 15 )

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Reflection: What was learned during the Week.

Supervisor Comment

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Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Supervisor Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Student Appraisal Form of Internship Student**

Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Roll No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Company/Industry Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Work Period from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total Leaves taken:

Medical leave:\_\_\_\_\_\_\_ days

Personal leave: \_\_\_\_\_\_\_ days