



# LONDON METROPOLITAN UNIVERSITY PROFESSIONAL WORK PLACEMENT

**LEARNING LOG**

YOUR ID: 23049159

YOUR NAME: Algina Tumkhewa

YOUR COURSE: BSc (Hons) Computing

YOUR CDL TUTOR: Nishesh Bishwas

PLACE OF WORK (Company Name): Brain Info Technologies

DATES OF ENTRIES IN LEARNING LOG:

|  |  |  |  |
| --- | --- | --- | --- |
| Log Index | Start Date | End Date | Company Supervisor Signature |
| Log 1 | 24 June 2025 | 04 July 2025 | A black ink drawing of a duck  AI-generated content may be incorrect. |
| Log 2 | 06 July 2025 | 16 July 2025 | A black ink drawing of a duck  AI-generated content may be incorrect. |
| Log 3 |  |  |  |
| Log 4 |  |  |  |
| Log 5 |  |  |  |
| Log 6 |  |  |  |

# LEARNING LOG 1

**For the period** June 24, 2024, **to** July 04, 2024

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| **What have I done? (relate tasks to Learning Outcomes)**  **(LO1) – Research Skill (Research about .NET, MAUI, MVC, Dapper, and Razor Pages)**  I researched various modern development technologies relevant to my placement. I explored what .NET and MAUI are, where they are used in real-world applications, and how they support cross-platform development. I learned how the MVC pattern works within the .NET ecosystem, including the role of models, views and controllers. I also gained an understanding of how Dapper functions as a lightweight ORM for database interaction. Additionally, I explored how Razor Pages can be used to design and manage frontend logic in .NET web applications.  **(LO5) – Adaptability (Adapt to new tools and technologies in a project environment)**  I adapted to unfamiliar technologies such as .NET, Dapper, MAUI, and Razor Pages by modifying my learning approach and seeking practical resources like tutorials and documentation. Despite being new to these tools, I was able to understand their use and implement core functionalities. This flexibility helped me contribute effectively to project tasks within the expected timeline.  **(LO10) – Practice basic database operations using SQL and Dapper**  I adapted to unfamiliar technologies such as .NET, Dapper, MAUI, and Razor Pages by modifying my learning approach and seeking practical resources like tutorials and documentation. Despite being new to these tools, I was able to understand their use and implement core functionalities. This flexibility helped me contribute effectively to project tasks within the expected timeline. |
| **What I did well (refer to skills used)**  **Research Skills**  I thoroughly investigated the .NET ecosystem and its supporting frameworks, including Dapper, MAUI, Razor Pages, and MVC architecture. Through this exploration, I gained a strong foundational understanding and was able to apply these concepts effectively in real project tasks. My ability to break down complex topics into simpler, actionable steps enabled me to implement efficient data access with Dapper, design responsive cross-platform interfaces with MAUI, and structure scalable web applications using MVC and Razor Pages. As a result, I contributed to building robust application modules, improved system performance, and ensured maintainable code structures demonstrating both technical competence and the practical impact of my research skills. |
| **What I could improve on (i.e. skills I want to improve)**  **Adaptability**  While I consistently documented my learning process and shared progress updates throughout the project, I recognize the need to improve the clarity and conciseness of my communication particularly in written reports and team meetings. Enhancing these skills will allow me to convey complex ideas more effectively, ensure that my updates are easily understood and promote better collaboration. Going forward, I aim to structure my communication with clear objectives, use visual aids or summaries when appropriate and actively seek feedback to continuously refine my delivery style.  **Database Management**  Although I have effectively researched and implemented PostgreSQL features within .NET applications, I recognize the opportunity to enhance my problem-solving skills by exploring multiple database design and query optimization strategies. This includes experimenting with different schema designs (such as normalization vs denormalization), evaluating indexing methods, stored procedures, and transaction management. Additionally, I aim to critically assess trade-offs between performance and maintainability to identify the most efficient and scalable solutions for real-world application. |
| **Action I can take to improve my skills and learning (make these “SMART”):**  **Adaptability:**  **Goal:** Enhance my ability to adjust quickly to new tools and frameworks.  **Action:** I will ask my supervisor questions about the new technologies I’m working with and research them further based on the guidance received. I will also maintain a weekly log of the tools and concepts I’ve learned.  **Timing:** from next week, 16 July 2025  **Database Management:**  **Goal:** Improve my SQL proficiency and understanding of database performance tuning.  **Action:** Dedicate 2 hours per week to practice complex SQL queries (joins, nested queries, transactions) and read documentation/articles on query optimization.  **Timing:** from next week, 16 July 2025 |