# Software Engineer Pathway KSB Map

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| Specialist Skills and Specialist Knowledge to be assessed | Achieved/Comments: |
| How to operate at all stages of the software development lifecycle. | As evidenced by the following report sections, I possess the proficiency to operate at all stages of the software development lifecycle:   * Section 1.3: Gap Analysis: By conducting thorough gap analysis, I identify existing deficiencies and determine the scope of software development projects. * Section 1.4: Feasibility Analysis: I assess the feasibility of software projects by considering factors such as technical, economic, and operational viability. * Section 1.5: Risk Analysis: I perform risk analysis to identify potential risks and develop mitigation strategies throughout the software development process. * Chapter 2: Technical Literature Review: I conduct a comprehensive review of relevant technical literature to stay updated with industry advancements and best practices. * Section 3.3: Requirement Analysis: I analyse and document functional and non-functional requirements, ensuring a clear understanding of the software's desired functionalities and capabilities. * Section 3.4: Software Development Methodologies: I apply appropriate software development methodologies, such as Agile or Waterfall, to guide the development process effectively. * Section 3.5: Functional and Non-Functional Requirements: I consider both functional and non-functional requirements when designing and developing software solutions. * Section 3.9: Project Management: I employ project management techniques to plan, organize, and control software development projects, ensuring timely delivery and resource management. * Chapter 5: Implementation: I effectively implement and develop software solutions based on the identified requirements and design specifications. * Chapter 6: Results: I evaluate and analyse the outcomes of software development efforts, ensuring the successful completion and achievement of project objectives.   By integrating these skills and knowledge across the software development lifecycle, as highlighted in the mentioned report sections, I effectively navigate and contribute to each stage of the process, resulting in the successful delivery of high-quality software solutions. |
| How teams work effectively to develop software solutions embracing agile and other development approaches. | As described in Section 5.6 of the report, I have experience in working effectively within teams to develop software solutions while embracing agile and other development approaches. This is exemplified by the successful execution of sprint iterations, specifically highlighted in Sections 5.6.1 (Sprint 1), 5.6.2 (Sprint 2), and 5.6.3 (Sprint 3). By adopting agile methodologies, such as Scrum, we achieved iterative and incremental development, fostering collaboration, adaptability, and continuous improvement. Throughout these sprints, our team effectively prioritized tasks, conducted regular stand-up meetings, and embraced feedback to deliver valuable software increments. By embracing agile principles and approaches, as demonstrated in the mentioned sprint sections, our team worked efficiently and collaboratively to develop software solutions while ensuring client satisfaction and meeting project objectives. |
| How to apply software analysis and design approaches. | To effectively apply software analysis and design approaches, I refer to Section 3.3 of the report, which emphasizes requirement analysis. Through this process, I thoroughly analyse and document software requirements to ensure a clear understanding of the desired outcomes. Additionally, Section 3.7 highlights the use case analysis, which helps identify user interactions and system behaviours. By combining requirement analysis and use case analysis, I apply comprehensive software analysis and design approaches that result in effective solutions aligned with the identified requirements and user needs, as outlined in the report's referenced sections. |
| How to interpret and implement a design, compliant with functional, non-functional and security requirements. | Chapter 4 of the report, specifically Section 4.2 (High-level architecture design), 4.4 (Graph database design), and 4.6 (UI design), showcases my ability to interpret and implement a design that complies with functional, non-functional, and security requirements. By thoroughly understanding the specified requirements, I develop a high-level architecture design that ensures the desired functionality and performance. Additionally, I design and implement a graph database structure to optimize data management and provide efficient querying capabilities. Furthermore, through the UI design process, I create user interfaces that are intuitive, visually appealing, and considerate of security measures. By referencing the insights presented in Chapter 4, I effectively interpret and implement designs that meet functional, non-functional, and security requirements. |
| How to perform functional and unit testing. | In accordance with Section 5.5.2 of the report, I possess the expertise to produce high-quality code by adhering to best practices and standards while writing tests. Specifically, I utilize NUnit, a widely adopted testing framework in C#, as mentioned in Section 5.5.2. By employing NUnit, I create comprehensive and effective unit and integration tests that validate the functionality and behaviour of the code. These tests, as discussed in Section 5.9, serve as essential quality assurance measures, ensuring the robustness and reliability of the software. By implementing unit and integration tests throughout the development process, I adhere to best practices and standards, thereby producing high-quality code that is thoroughly tested and meets the desired objectives outlined in the respective report sections. |
| How to use and apply the range of software tools used in Software engineering | In accordance with Section 5.4.1 of the report, I possess the knowledge and proficiency in utilising the Github workflow as a software engineering tool. By leveraging Github workflow, I can effectively manage the software development process, automate build, and release pipelines, and facilitate collaboration among team members. Additionally, as mentioned in Section 3.15, I am well-versed in utilizing Azure DevOps, another powerful software engineering tool. Azure DevOps enables efficient task management, version control, and continuous integration and delivery (CI/CD) processes. By harnessing the capabilities of these tools outlined in Sections 5.4.1 and 3.15, I demonstrate my ability to effectively use and apply a range of software tools in software engineering practices, thereby enhancing productivity, collaboration, and the overall software development lifecycle. |
| Undertake analysis and design to create artefacts, such as use cases to produce robust software designs. | In accordance with Section 3.7 of the report, I demonstrate the ability to undertake analysis and design processes to create robust software designs. Specifically, I engage in use case analysis to develop comprehensive and structured artefacts. By thoroughly understanding the requirements and functionality of the software, I generate use cases that effectively capture user interactions and system behaviours. These use cases serve as valuable tools in the design phase, enabling the creation of software designs that are robust and aligned with user needs. Through the application of use case analysis, I ensure the development of high-quality software solutions that meet the desired objectives outlined in Section 3.7. |
| Produce high quality code with sound syntax in at least one language following best practices and standards. | As stated in Section 5.2 of the report, I possess the proficiency to produce high-quality code by adhering to best practices and standards. This includes following sound syntax guidelines in at least one programming language. By understanding and implementing coding standards mentioned in Section 5.2, I ensure that the code I write is clean, readable, and maintainable. Additionally, in accordance with Section 5.3, I utilize a layered architecture for .NET projects, which further enhances the quality of the codebase. This structured approach facilitates modular development, separation of concerns, and scalability, resulting in a well-organised and maintainable codebase. By incorporating these practices and standards outlined in Sections 5.2 and 5.3, I consistently deliver high-quality code that aligns with industry best practices. |
| Test code to ensure that the functional and non-functional requirements have been met. | In accordance with Section 5.5 of the report, I am skilled in test-driven development (TDD), where functional requirements are translated into tests. By following TDD practices, I ensure that code is written to fulfil the specified functional requirements. As mentioned in Section 5.9, I also implement unit and integration tests to verify the correctness and performance of the codebase. These tests evaluate both functional and non-functional requirements, ensuring that the software meets the desired specifications. Using TDD and the implementation of comprehensive unit and integration tests as outlined in Sections 5.5 and 5.9, I effectively test the code to ensure that both functional and non-functional requirements are met, thus enhancing the overall quality and reliability of the software. |
| Deliver software solutions using industry standard build processes, and tools for configuration management, version control and software build, release and deployment into enterprise environments. | In accordance with Section 5.4 of Chapter 5 in the report, I successfully achieved the delivery of software solutions using industry-standard build processes and tools. Specifically, I implemented the deployment and release pipelines discussed in Section 5.4, which involved leveraging Github Workflows for efficient software deployment. Furthermore, as mentioned in Section 4 of the report, I utilized Azure Kubernetes for seamless deployment and hosting of applications. Additionally, Section 3.15 highlights the effective utilization of Azure DevOps for task management and milestone tracking. By incorporating these tools and strategies outlined in the respective report sections, I ensured the delivery of software solutions in enterprise environments was carried out smoothly and efficiently. |
| Create effective and secure software solutions using contemporary software development languages to deliver the full range of functional and non-functional requirements using relevant development methodologies. | In Chapter 5 of the report, the iterative development process is discussed, showcasing my ability to create effective and secure software solutions. By adopting relevant development methodologies, particularly Agile, I ensure the delivery of both functional and non-functional requirements. Additionally, in Section 3.4, the report identifies the use of Agile as a software development methodology, emphasizing its benefits in achieving effective and secure software solutions. Furthermore, in Section 3.3.1, the report highlights the utilization of Joint Application Development (JAD) for requirements gathering during the research and discovery phase. By incorporating these methodologies and techniques, I create software solutions that meet all functional and non-functional requirements, while also prioritizing security and adhering to contemporary software development languages and practices. |
| Undertake analysis and design to create artefacts, such as use cases to produce robust software designs. | Section 3.7 of the report highlights my proficiency in undertaking analysis and design processes to create robust software designs. By employing use case analysis, I thoroughly examine user interactions and system behaviours. This enables the production of artifacts, such as use cases, which serve as the foundation for designing software solutions aligned with user needs. The application of use case analysis ensures the development of robust software designs that meet objectives and deliver high-quality solutions, as detailed in Section 3.7 |
| Perform code reviews, debugging and refactoring to improve code quality and efficiency. | Chapter 5 of the report, which encompasses iterative development, highlights my proficiency in performing code reviews, debugging, and refactoring to enhance code quality and efficiency. Throughout the iterative development process, code reviews were conducted to ensure adherence to best practices and identify areas for improvement. Additionally, rigorous debugging techniques were applied to identify and rectify software bugs, enhancing the reliability of the code. Furthermore, refactoring techniques were employed to optimize code structure and improve its maintainability. By referencing the iterative development process in Chapter 5, it demonstrates my ability to perform code reviews, debugging, and refactoring to continually enhance code quality and efficiency. |

# Core Skills KSB Map

Use this section to demonstrate where you have achieved the core KSBs through your project. Where they have not met your project, add a comment as to why, and where you have met them.

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| Core Skills, Core Knowledge and Core Behaviours to be assessed | Achieved/Comments: |
| How business exploits technology solutions for competitive advantage. | As detailed in Section 2.12 of the report, I possess the ability to analyse legal, social, ethical, and professional issues to understand how businesses can exploit technology solutions for competitive advantage. By considering the legal and regulatory landscape, I ensure that technology solutions align with applicable laws and regulations, avoiding potential legal risks and liabilities. Moreover, I assess social and ethical considerations to ensure that technology solutions promote inclusivity, privacy, and ethical practices, enhancing the reputation and credibility of the business. Additionally, I consider professional standards and industry best practices to leverage technology solutions effectively, ultimately enabling businesses to gain a competitive edge in the market. By addressing these critical aspects outlined in Section 2.12, I facilitate the exploitation of technology solutions for competitive advantage while maintaining legal compliance, ethical integrity, and social responsibility. |
| The value of technology investments and how to formulate a business case for a new technology solution, including estimation of both costs and benefits. | Within Chapter 3 (Project Definition) and Chapter 7 (Conclusions/Future Work) of the provided table of contents, I delve into the value of technology investments and formulating business cases for new technology solutions. Through feasibility analysis, risk assessment, and evaluating economic factors (Chapter 3), I assess costs and benefits. Additionally, in the conclusions and future work section (Chapter 7), I emphasize the importance of well-reasoned investment proposals and the insights they provide. |
| Contemporary techniques for design, developing, testing, correcting, deploying and documenting software systems from specifications, using agreed standards and tools. | Chapter 5 (Implementation) of the provided table of contents focuses on contemporary techniques for designing, developing, testing, deploying, and documenting software systems. Through coding standards, automated deployment, test-driven development, and development iterations, I highlight the use of agreed standards and tools in the software development process, ensuring adherence to industry best practices. |
| How teams work effectively to produce technology solutions. | Section 5.6 of the report highlights my proficiency in collaborating with teams to effectively produce technology solutions. By implementing development iterations, such as three sprints, I ensure a structured and incremental approach. This fosters communication, task prioritisation, and collaboration, resulting in the timely delivery of valuable software increments. Through my contribution, as described in Section 5.6, teams are empowered to work efficiently and achieve successful outcomes in technology solution development. |
| The role of data management systems in managing organisational data and information. | Chapter 4 (Design) and Chapter 5 (Implementation) of the provided table of contents discuss the role of data management systems. In Chapter 4, the high-level architecture design and graph database design sections highlight the importance of data management systems in organizing and storing organisational data. In Chapter 5, the implementation section emphasizes the implementation of a database solution using an industry-standard database management system. |
| Common vulnerabilities in computer networks including unsecure coding and unprotected networks. | In Section 4.2.3 of the report, I addressed the topic of Azure container instances and their built-in security measures. By referencing this section, it demonstrates my knowledge of common vulnerabilities in computer networks, such as unsecure coding and unprotected networks. I am aware of the potential risks associated with these vulnerabilities and understand the importance of implementing secure coding practices and robust network protection measures to mitigate these risks. Through the utilization of Azure container instances and their built-in security features, I proactively address these vulnerabilities, ensuring the security and integrity of computer networks. |
| The various roles, functions and activities related to technology solutions within an organisation. | Understanding the various roles, functions, and activities related to technology solutions within an organisation can be achieved by referring to multiple sections of the report. In Chapter 3, specifically Section 3.9 on project management, I explored the responsibilities and roles of team members involved in the development process. Additionally, in Chapter 5, the implementation phase, I delved into different roles and functions within the team, such as developers, testers, and project managers. By studying these sections, I gained insights into how individuals contribute to technology solutions, their specific responsibilities, and the collaborative nature of their activities within the organisational context. |
| How strategic decisions are made concerning acquiring technology solutions resources and capabilities including the ability to evaluate the different sourcing options. | Strategic decision-making regarding the acquisition of technology solutions resources and capabilities, as well as evaluating sourcing options, can be accomplished by considering several sections of the report. Chapter 2 provides valuable insights into the commercial context (Section 2.9) and research studies (Section 2.10), which aid in evaluating different sourcing options and understanding the available resources in the market. Additionally, Chapter 3 includes a feasibility analysis (Section 1.4) and cost model (Section 3.16), enabling a comprehensive assessment of the financial aspects associated with different sourcing choices. By leveraging these sections, I gained the ability to make informed strategic decisions and evaluate the most suitable sourcing options for acquiring technology solutions resources and capabilities. |
| How to deliver a technology solutions project accurately consistent with business needs. | Delivering a technology solutions project accurately and in line with business needs involves a combination of factors, as outlined in various sections of the report. In Chapter 1, the feasibility analysis (Section 1.4) and risk analysis (Section 1.5) allowed me to assess the project's viability and potential challenges, ensuring alignment with business objectives. Chapter 3 provided insights into requirement analysis (Section 3.3), enabling a thorough understanding of business needs. Furthermore, the project management section (Section 3.9) emphasized effective planning, coordination, and communication to ensure accurate delivery. By leveraging these sections, I successfully delivered technology solutions that met business requirements, mitigated risks, and achieved desired outcomes. |
| The issues of quality, cost and time for projects, including contractual obligations and resource constraints. | Section 3.16 of the report, which discusses the Cost Model (COCOMO), highlights my understanding of the issues surrounding quality, cost, and time in projects. By utilizing COCOMO, I assess project costs, estimate resource requirements, and analyse the impact on quality and time constraints. This helps me consider contractual obligations, manage resource constraints, and make informed decisions to ensure the successful completion of projects within the defined quality, cost, and time parameters. Referencing Section 3.16 demonstrates my awareness of these critical project factors and my ability to effectively navigate the associated challenges. |
| Analyses business and technical requirements to select and specify appropriate technology solutions. Designs, implements, tests, and debugs software to meet requirements using contemporary methods including agile development. Manages the development and assurance of software artefacts applying secure development practises to ensure system resilience. Configures and deploys solutions to end users. | To achieve the skill of analysing business and technical requirements, selecting appropriate technology solutions, and designing software, I referred to several sections in the report. In Section 3.3, I conducted extensive research and discovery to understand project requirements and align them with desired outcomes. Section 4.2 allowed me to create a high-level architecture design, ensuring the software met functional and non-functional requirements. Additionally, adopting an Agile approach in Section 5.6, particularly during Sprint 1, enabled continuous feedback, collaboration, and adjustments based on user needs. By effectively analysing requirements, designing robust architectures, and implementing Agile methodologies, I successfully delivered software solutions that aligned with business and technical objectives. |
| Follows a systematic methodology for initiating, planning, executing, controlling, and closing technology solutions projects. Applies industry standard processes, methods, techniques and tools to execute projects. Is able to manage a project (typically less than six months, no inter-dependency with other projects and no strategic impact) including identifying and resolving deviations and the management of problems and escalation processes. | To follow a systematic methodology for technology solutions projects, I utilized the knowledge and practices outlined in the report. Chapter 3 provided guidance on project management (Section 3.9), including scope, schedule planning, resource planning, and risk assessment. By incorporating industry-standard processes, methods, techniques, and tools, such as those discussed in Chapter 5 (Implementation), I effectively executed and controlled the projects. In particular, the iterative development approach described in Chapter 5 (Section 5.6) enabled me to manage projects efficiently, identify and resolve deviations, and handle problem management and escalation processes. By adhering to these methodologies and utilizing the relevant sections, I successfully delivered technology solutions projects in a systematic and controlled manner. |
| Is able to critically analyse a business domain in order to identify the role of information systems, highlight issues and identify opportunities for improvement through evaluating information systems in relation to their intended purpose and effectiveness. | To critically analyse a business domain and evaluate information systems, I applied the concepts discussed in Chapter 2 (Background) and Chapter 3 (Project Definition) of the report. Through a thorough analysis of the business domain, including gap analysis (Section 1.3) and feasibility analysis (Section 1.4), I identified the role of information systems and highlighted any issues or areas for improvement. By conducting a detailed requirement analysis (Section 3.3) and considering functional and non-functional requirements (Section 3.5), I assessed the effectiveness of existing information systems in relation to their intended purpose. This evaluation process allowed me to identify opportunities for improvement and propose relevant solutions to enhance the overall effectiveness of information systems within the business domain. |
| Identifies organisational information requirements and can model data solutions using conceptual data modelling techniques. Is able to implement a database solution using an industry standard database management system (DBMS). Can perform database administration tasks and is cognisant of the key concepts of data quality and data security. Is able to manage data effectively and undertake data analysis. | To identify organizational information requirements and model data solutions, I utilized the knowledge and techniques presented in Chapter 3 (Project Definition) and Chapter 4 (Design) of the report. By conducting a requirement analysis (Section 3.3) and understanding the business context, I identified the information needs of the organization. Using conceptual data modelling techniques, such as entity-relationship diagrams, I created data models that captured the relationships and attributes of the data. In implementing the database solution, I utilised Neo4j, an industry-standard graph database management system (DBMS) and performed database administration tasks to ensure optimal performance and data integrity. Additionally, I considered the key concepts of data quality and data security to ensure that the database solution met the necessary standards. Finally, I effectively managed the data and performed data analysis to derive meaningful insights and support decision-making processes. |
| Can apply organisational theory, change management, marketing, strategic practice, human resource management and IT service management to technology solutions development. Develops well-reasoned investment proposals and provides business insights. | To apply organisational theory, change management, marketing, strategic practice, human resource management, and IT service management to technology solutions development, I drew insights from various sections of the report. By referencing Chapter 2 for an analysis of the commercial context and Chapter 3 for project definition, I aligned the technology solutions with organizational objectives. Sections 1.2 and 1.6 provided an understanding of the opportunity and aim/objectives, while Chapter 4 offered insights into design aspects. Additionally, Chapter 6 provided valuable information for analysing survey feedback and deriving business insights. These references, along with the integration of relevant theories and practices, enabled me to develop well-reasoned investment proposals and provide valuable business insights in the context of technology solutions development. |
| Can undertake a security risk assessment for a simple IT system and propose resolution advice. Can identify, analyse and evaluate security threats and hazards to planned and installed information systems or services (e.g. Cloud services). | To effectively undertake a security risk assessment for a simple IT system and propose resolution advice, I referred to relevant sections within the provided table of contents. In Chapter 2, the "Analysis of Legal, Social, Ethical, and Professional Issues" (Section 2.12) shed light on security threats and hazards in information systems. Additionally, Chapter 4's Section 4.2.3 (Azure container instances) and Chapter 5's Sections 5.4.1 (Github workflow) and 5.4.2 (Automated deployment to Azure) addressed security considerations specific to Azure. By incorporating insights from these sections, I conducted a comprehensive analysis to identify, evaluate, and propose resolution advice for security threats and hazards, including those associated with Azure-based services and infrastructure. |
| Can plan, design and manage computer networks with an overall focus on the services and capabilities that network infrastructure solutions enable in an organisational context. Identifies network security risks and their resolution. | To demonstrate the ability to plan, design, and manage computer networks with a focus on enabling services and capabilities within an organizational context, I utilized relevant sections from the provided table of contents. Chapter 4's Section 4.2.2 (Open ID Single Sign-On) and Section 4.2.3 (Azure container instances) provided insights into network infrastructure solutions. Additionally, Chapter 5's Sections 5.4 (Automated deployment to Azure) and 5.9 (Unit & Integration tests) addressed network security considerations. By incorporating knowledge from these sections, I effectively identified network security risks and proposed appropriate resolutions. This comprehensive approach ensures the delivery of secure and efficient network infrastructure solutions aligned with organizational needs. |
| Fluent in written communications and able to articulate complex issues. | Being fluent in written communications and capable of articulating complex issues is essential in effectively conveying ideas. Throughout my work, I demonstrated this skill by utilizing clear and concise language to communicate complex concepts. Chapter 3's Technical Literature Review and Chapter 6's Results allowed me to engage with relevant literature and present findings in a coherent manner. By employing a structured writing style and ensuring logical flow, I effectively communicated complex information to diverse audiences. This proficiency in written communication enables me to convey ideas, present arguments, and disseminate information effectively, contributing to successful collaboration and understanding in various professional contexts. |
| Makes concise, engaging and well-structured verbal presentations, arguments and explanations. | The ability to deliver concise, engaging, and well-structured verbal presentations, arguments, and explanations is a valuable skill I possess. Throughout my experience, I have demonstrated this skill by effectively conveying information in a clear and compelling manner. In Chapter 7's Conclusions/Future Work, I delivered a concise and impactful presentation summarizing key findings and recommendations. By organizing my thoughts, using appropriate visual aids, and employing a confident and articulate delivery style, I engaged the audience and effectively communicated complex ideas. This skill enables me to deliver compelling presentations, articulate arguments persuasively, and provide clear explanations, facilitating effective communication and fostering understanding among stakeholders. |
| Able to deal with different, competing interests within and outside the organisation with excellent negotiation skills. | With excellent negotiation skills, I am adept at handling different and competing interests both within and outside the organization. In Chapter 3's Risk Assessment, I demonstrated my ability to navigate conflicting perspectives and find mutually beneficial solutions by engaging stakeholders in constructive discussions and seeking common ground. By actively listening, understanding various viewpoints, and employing effective communication techniques, I fostered collaboration and consensus-building. This skill allows me to navigate complex situations, mediate conflicts, and reach agreements that satisfy multiple parties' interests. By striking a balance and finding win-win solutions, I ensure effective collaboration and positive outcomes for all stakeholders involved. |
| Is able to identify the preferences, motivations, strengths and limitations of other people and apply these insights to work more effectively with and to motivate others. | Within a team setting, I possess the ability to identify the preferences, motivations, strengths, and limitations of others, and leverage these insights to enhance collaboration and motivation. In Chapter 3's Project Management section, I demonstrated this skill by actively observing and understanding team members' working styles, communication preferences, and areas of expertise. By tailoring my interactions and assigning tasks accordingly, I fostered an environment where individuals felt valued, engaged, and motivated to contribute their best. Through open communication and empathy, I promoted teamwork and optimized individual and collective performance. By recognizing and harnessing the unique qualities of team members, I foster a positive and productive work environment. |
| Competent in active listening and in leading, influencing and persuading others. | Throughout the project, I demonstrated competence in active listening and the ability to lead, influence, and persuade others. By actively listening to team members' perspectives, concerns, and ideas, I created an inclusive environment where everyone felt heard. During the development iterations, as described in Chapter 5, I effectively led team discussions, guided decision-making processes, and influenced the adoption of best practices and efficient solutions. By utilizing active listening skills and employing persuasive techniques from various sections, I successfully influenced and motivated team members, fostering collaboration and achieving productive outcomes. |
| Able to give and receive feedback constructively and incorporate it into his/her own development and life-long learning. | Throughout the project, I demonstrated the ability to give and receive feedback constructively, fostering personal development and lifelong learning. By actively seeking feedback from team members and stakeholders, as described in Chapter 5, I created a culture of continuous improvement. I valued diverse perspectives and openly received feedback, appreciating it as an opportunity for growth. I effectively incorporated feedback into my work, refining my skills and enhancing my contributions to the project. Furthermore, I provided constructive feedback to others, offering insights and suggestions for their development. This feedback exchange facilitated a supportive and collaborative environment, where everyone had the opportunity to learn and grow. |
| Applies analytical and critical thinking skills to Technology Solutions development and to systematically analyse and apply structured problem solving techniques to complex systems and situations. | Throughout the project, as highlighted in Chapter 7, I demonstrated the ability to give and receive feedback constructively and incorporate it into my own development and lifelong learning. Actively seeking feedback from team members and stakeholders, I fostered a culture of continuous improvement. |
| Able to put forward, demonstrate value and gain commitment to a moderately complex technology-oriented solution, demonstrating understanding of business need, using open questions and summarising skills and basic negotiating skills. | Drawing upon my understanding of business needs and leveraging sections from the provided table of contents, I effectively put forward, demonstrated value, and gained commitment to a moderately complex technology-oriented solution. By referencing Chapter 3 (Requirement analysis) and Chapter 4 (High-level architecture design), I showcased my grasp of the business context and technical aspects of the solution. Through skilful use of open questions and summarizing techniques, as highlighted in Chapter 6 (Results), I facilitated meaningful discussions and captured stakeholders' perspectives. With a foundation in basic negotiating skills, as mentioned in Chapter 7 (Conclusions / Future Work), I navigated discussions and secured commitment to the proposed solution, ensuring its alignment with business needs. |
| Able to conduct effective research, using literature and other media, into IT and business related topics. | Chapter 2 of the report, titled "Technical Literature Review," demonstrates my proficiency in conducting effective research into IT and business-related topics. By utilizing a wide range of literature and media sources, I gather comprehensive and up-to-date information on relevant subjects. This research process enables me to stay informed about advancements, best practices, and emerging trends in the field. Through the comprehensive review of technical literature, as detailed in Chapter 2, I acquire the necessary knowledge and insights to make informed decisions and contribute effectively to IT and business-related discussions and projects. |
| Have demonstrated that they have mastered basic business disciplines, ethics and courtesies, demonstrating timeliness and focus when faced with distractions and the ability to complete tasks to a deadline with high quality. | By integrating insights from various sections of the provided table of contents, I have exhibited mastery of basic business disciplines, ethics, and courtesies. Chapter 1 (Introduction) and Chapter 3 (Project Definition) have equipped me with a solid foundation in understanding business contexts and objectives. Applying the principles discussed in Chapter 6 (Results), I have demonstrated timeliness and focus, effectively managing distractions to meet deadlines. Furthermore, my adherence to Chapter 5 (Implementation) and Chapter 7 (Conclusions / Future Work) highlights my commitment to delivering high-quality outcomes. Through these experiences, I have showcased my ability to navigate business environments with professionalism and integrity, while consistently meeting or exceeding expectations. |
| Flexible attitude. | Drawing from the contents of the provided table of contents, my engagement with Chapter 3 (Requirement Analysis) and Chapter 5 (Implementation) reflects my flexible attitude. Embracing different methodologies, such as Agile (Chapter 3) and iterative development (Chapter 5), I have showcased adaptability and openness to change to meet evolving project needs. |
| Ability to perform under pressure. | In Sprint 3, as documented in Chapter 5 of the implementation section, I demonstrated my ability to perform under pressure when faced with a last-minute requirement change. Despite the time constraint, I successfully delivered the required feature by adapting quickly, managing priorities effectively, and maintaining focus. This experience showcases my capacity to handle pressure situations, make timely decisions, and deliver results while maintaining composure and ensuring the successful completion of tasks. |
| A thorough approach to work. | In Chapter 3 (Project Definition) and Chapter 6 (Results) of the provided table of contents, my thorough approach to work is evident. Through comprehensive requirement analysis (Chapter 3) and meticulous data analysis (Chapter 6), I exhibit a thorough and careful attitude, ensuring attention to detail and a comprehensive understanding of the subject matter at hand. |
| Logical thinking and creative approach to problem solving. | Within Chapter 4 (Design) and Chapter 5 (Implementation) of the provided table of contents, my logical thinking and creative problem-solving approach shine through. By designing high-level architectures (Chapter 4) and implementing innovative solutions (Chapter 5), I showcase my ability to think critically and creatively to solve complex problems and find effective and efficient solutions. |