|  |  |  |  |
| --- | --- | --- | --- |
| **Skill / Resource** | **Description** | **Learning / Acquisition sources** | **Team members confident in it** |
| Project management | Ensuring the team is able to stay on top of their respective deliverables. | [Agile methodology](https://asana.com/resources/agile-methodology)​  [Scrum methodology](http://www.agilelearninglabs.com/resources/scrum-introduction/)​  [Trello](https://trello.com/) |  |
| Web development | An understanding of front-end and back-end development to create the website. | [LinkedIn learning](https://www.linkedin.com/learning-login/?account=2213369&authUUID=i7lq4RyNRe6MXZe4S4IUDg%3D%3D&redirect=https%3A%2F%2Fwww.linkedin.com%2Flearning%2Fme%3Fu%3D2213369)  [Coursera](https://www.coursera.org/programs/university-of-western-australia-learning-program-for-students-jecvd?authProvider=uwa)  [How to Git Good](https://teaching.csse.uwa.edu.au/units/CITS3200/lectures/How_to_Git_Good-Constantin_V2.pdf) |  |
| User interface design | Making the website and application as intuitive and easy to use as possible. | [LinkedIn learning](https://www.linkedin.com/learning-login/?account=2213369&authUUID=i7lq4RyNRe6MXZe4S4IUDg%3D%3D&redirect=https%3A%2F%2Fwww.linkedin.com%2Flearning%2Fme%3Fu%3D2213369)  [Coursera](https://www.coursera.org/programs/university-of-western-australia-learning-program-for-students-jecvd?authProvider=uwa) |  |
| Quality assurance | Ensuring that any bugs or errors are caught before the website and application are deployed. | [LinkedIn learning](https://www.linkedin.com/learning-login/?account=2213369&authUUID=i7lq4RyNRe6MXZe4S4IUDg%3D%3D&redirect=https%3A%2F%2Fwww.linkedin.com%2Flearning%2Fme%3Fu%3D2213369)  [Coursera](https://www.coursera.org/programs/university-of-western-australia-learning-program-for-students-jecvd?authProvider=uwa) |  |
| Database management | Managing how the relationship between the units and the courses. Specifically using the graph database Neo4J. | [Neo4J documentation](https://neo4j.com/docs/getting-started/appendix/tutorials/tutorials-overview/)  [LinkedIn learning](https://www.linkedin.com/learning-login/?account=2213369&authUUID=i7lq4RyNRe6MXZe4S4IUDg%3D%3D&redirect=https%3A%2F%2Fwww.linkedin.com%2Flearning%2Fme%3Fu%3D2213369)  [Coursera](https://www.coursera.org/programs/university-of-western-australia-learning-program-for-students-jecvd?authProvider=uwa) |  |
| Technical writing | Documentation for project handover and providing information to the client. | [STUDYSmarter writing consultation](https://outlook.office365.com/owa/calendar/STUDYSmarter1@uwa.edu.au/bookings/) |  |
| Familiarity with prerequisites | A key understanding of how the UWA units relate to each other is necessary to develop the project. | [UWA units](https://handbooks.uwa.edu.au/units)  [UWA’s Engineering courses](https://www.uwa.edu.au/schools/engineering#anchor-Courses-EAD3BE58-7859-42EF-B232-3145B49CF76D) |  |
| Professionalism | A degree of professionalism is expected when working in a team and communicating with the client. | [Code of conduct](https://uniwa-my.sharepoint.com/:w:/g/personal/22760978_student_uwa_edu_au/EWTk8OUD1gBEvgBFFGFq4MUBaJWdA1pgJTCWTY1Qxvon_Q?e=9aVLkl)  [ACS Professional Conduct](http://www.csse.uwa.edu.au/undergraduate/units/CITS3200/ethics/ACS-Code-of-Professional-Conduct_v2.1.pdf)  [ACS Code Ethics](http://www.csse.uwa.edu.au/undergraduate/units/CITS3200/ethics/Code-of-Ethics_Final_12.6.12.pdf)  [Alex Reid's Ethics of Computing Resources page](http://www.alex-reid.com/Ethics) |  |

Team roles required:

Software based

* QA tester
* Database manager
* Front-end developer
* Back-end developer
* User interface designer

Others

* Technical writer
* Project manager
* Client liaison

By gaining insights into team members' areas of expertise and level of confidence in certain aspects, we can capitalize on their strengths. Additionally, we can foster an environment where those less acquainted with certain domains are empowered to seek assistance when required. This approach optimizes collaboration and promotes a culture of shared knowledge and growth within the team.

It's worth noting that team roles are not fixed, as not only are there not enough members for each role, but each member will have an even workload distribution based on their skills and interests. The team has demonstrated a high level of flexibility and a willingness of the team to adapt, and this will significantly contribute to the success of the project.