To: Ms Kamalahshunee K Velautham, Mr Soo Wooi King and Mr Muhammad Fermi Pasha
From: Foo Kai Yan, Alicia Quek Chik Wen, Eunice Lee Wen Jing, Jesse Yow San Gene
Date: 19th March 2024
Subject: Importance of Weighted Scoring Criteria in Project Selection

The projects under consideration include a Web-based Human-in-the-loop Transcription Tool, Machine Learning Algorithm for Classification of Iris Dataset, a Reversible Watermarking Technique and an Automated Health Information System. Each of these projects will be assessed against the five criteria listed below to determine their feasibility and potential impact.

When assessing a project's viability, multiple factors are taken into account to guarantee its successful outcome. First and foremost, it is essential that the members within the team possess the appropriate skills and knowledge required for the successful implementation of the project. This ensures that the project can be carried out effectively by the team members. Secondly, the project should utilise technology and software that are practical and currently available to steer clear of dependence on theoretical or emergent technologies that are not released yet. Thirdly, it's essential that the project's schedule is realistic, ensuring the project can be finalised within the proposed time frame. Additionally, the project should be able to target a large potential customer base, which would largely contribute to the projects' viability and success. Last but not least, it is important that the project is made with a focus on scalability where the project should be made in such a way that it can be easily modified to accommodate a wider scope of application whenever the need arises.

The main reason the Automated Health Information System was chosen as our team's recommended project is that it scored the highest in our weighted scoring model. According to the weight assigned to each criteria, our team's skills and knowledge are well-suited for the project Automated Health Information System, scoring a 6. This 6 indicated our confidence in successfully delivering the project over 10. The project's use of current technology and software applications has scored 6 which indicates that modern technologies are to be used for the project. With a score of 6 for the 3rd criteria, this project is deemed achievable by the team within the allocated time frame, ensuring timely completion of the project. For the customer base potential for the project, our team gave it a score of 8 as the health industry itself which includes clinics, hospitals and more are all potential large customer bases. The ability to expand and modify the system for broader applications for future use scored a 7 as we believe that instead of just adding, updating, deleting the data within the database, features like detecting trends of the disease and medication required to cure them can also be kept within the database as these features and functionality may come to use in the future. In conclusion, the Automated Health Information System project was selected due to its highest overall weighted score of 64, which indicates its strong alignment with the team's capabilities and the project's potential success. The other 3 projects listed in the Weighted Scoring Model each individually also have their own unique features but some either are too complex for the team to take or do not have its marketing value and hence are not suitable projects for the team to undertake.

Best,
Foo Kai Yan, Alicia Quek Chik Wen, Eunice Lee Wen Jing, Jesse Yow San Gene
Team MDS2