Project ID: 5

Project Title
Curric Ai Bot

Client Name
Angie Nguyen (On Behalf Of Education Team- Faculty Of Law & Justice)

Group Capacity
2 groups

Project Background
The Curric AI Bot project aims to explore and develop an AI-powered tool designed to support academics in the process of course review and enhancement. As the demand for high-quality, data-informed curriculum development continues to grow, academic staff are increasingly required to engage in regular reflection and improvement of their courses. This project responds to that need by leveraging generative AI to provide timely, tailored suggestions for course design improvements based on input such as course outlines, learning outcomes, assessment tasks, and student feedback. The primary goal is to create a supportive, user-friendly tool that helps academics identify potential gaps or misalignments, encourages evidence-based enhancements, and ultimately contributes to a more consistent and high-quality learning experience for students.

Project Scope
The scope of the Curric AI Bot project includes the design, development, and testing of an AI-driven tool that aligns with UNSW's academic policies and quality assurance frameworks. The bot will be developed to assist academics in reviewing course components such as course outlines, learning outcomes, assessments, and alignment with program-level outcomes. It will draw on UNSW's Learning and Teaching standards, the Curriculum Design and Review Procedures, and relevant AQF and TEQSA requirements to ensure that its recommendations are consistent with institutional and national quality expectations. The project will also explore how the bot can integrate with existing UNSW systems and workflows to support scalable, sustainable curriculum quality enhancement.

Project Requirements
The Curric AI Bot will be designed as a user-friendly, web-based tool that enables academics to upload or input key course information- such as course outlines, learning outcomes, assessment descriptions, and student feedback- for automated review and analysis. The system will use natural language processing (NLP) and machine learning techniques to evaluate the alignment of course components with UNSW's curriculum quality standards, including the Curriculum Design and Review Procedure, AQF levels, and TEQSA expectations.

Key features will include:

- Automated analysis of course learning outcomes for clarity, measurability, and alignment with program-level outcomes

- Identification of potential gaps or inconsistencies in course design

- Context-aware improvement suggestions, such as assessment diversification, scaffolding of skills, or opportunities for feedback

- The bot will be designed to operate securely within UNSW's digital environment, ensuring data privacy and compliance with institutional IT and governance requirements. Initial development will focus on a prototype for internal pilot testing, with the potential for wider implementation based on feedback and performance.

Required Skills

Students working on the Curric AI Bot project should possess a strong foundation in software development, particularly in areas related to natural language processing (NLP), machine learning, and web application development.

Familiarity with educational technologies, curriculum design principles, and quality assurance frameworks (such as AQF and TEQSA) is highly desirable, as is the ability to interpret and work with higher education policy documents.

Expected Outcomes

The Curric AI Bot project is expected to produce a functional prototype of an AI-powered tool that supports academic staff in course review and improvement. Key deliverables will include:

- Source Code: Fully documented and modular codebase for the AI bot, including backend (AI/ML logic) and frontend (user interface) components.

- User Guide: A comprehensive user manual that outlines how to use the tool, including instructions for uploading course documents, interpreting recommendations, and exporting reports.

- Demonstration Video: A brief walkthrough video showcasing the key features and functionality of the tool.

- Final Report: A summary report detailing the project background, development process, challenges encountered, testing results, and future improvement recommendations.

Disciplines

Software Development;Web Application Development;Artificial Intelligence (Machine/Deep Learning, NLP);Generative AI (GenAI);

Other Resources

I am not sure.