PROJECT IDEATION

My name is Kliona Kennet, and I am currently pursuing a Master's degree in Information Technology at Deakin University.

"The Smart Campus Navigation System functions to optimize resource utilization in Deakin University's big educational facilities through effective navigation systems and information discovery capabilities. The system delivers instant location details and route directions toward multiple campus locations such as classrooms and laboratories and dining areas and administrative spaces.

Important Features:

- Enhanced Navigation System enables people from all groups such as students and staff members and visiting guests to traverse the extensive campus more efficiently without wasted time or confusion.
- The platform distributes campus event news with the result of lowering participant absenteeism rates and boosting attendance numbers.

Project Importance:

- Backend: Node.js with Express.js for handling server-side logic, Passport.js for authentication, and Socket.IO for real-time communication.
- Frontend: HTML, CSS, and JavaScript for building a user-friendly interface. The responsive design components in this project will utilize Materialize CSS.
- Database: MongoDB for storing user profiles, event data, and navigation maps.
- The platform will use AES encryption as well as JSON Web Token (JWT) to secure both the data storage and information transmission processes.