

Client The client in this project is the University of Technology and Applied Sciences (UTAS) Muscat. By working together, they ensure that IoT and AI technologies are effectively integrated to create a modern, efficient, and sustainable educational environment. Integration of Technologies: They work closely with sub-contractors to ensure IoT devices, AI systems, and sustainable elements like solar panels and green roofs are installed as per the project design. Coordination with Stakeholders: The consultant bridges communication between the client, contractors, and sub-contractors, ensuring everyone is aligned on the technological and sustainability goals of the project. Specialized Installations: Sub-contractors focus on the installation of specific systems like smart HVAC, solar energy systems, AI-driven tools, and IoT devices in classrooms and laboratories. Consultant The consultant is responsible for designing the building and overseeing the integration of IoT, AI, and sustainable features to ensure the building meets the client's vision. Regulatory Compliance: They also ensure that the building meets local building codes, safety regulations, and green building standards while implementing IoT and AI technologies. Project Execution: The contractor oversees the day-to-day operations on the construction site, ensuring that the building is constructed according to the consultant's plans and specifications, including the smart and sustainable features. Sub-Contractor Sub-contractors are hired to handle specialized tasks, particularly in the installation and setup of IoT devices, AI systems, and sustainable infrastructure. Collaboration with Contractor: Sub-contractors must work in close coordination with the main contractor to ensure that the installation of high-tech equipment aligns with the overall construction timeline and project goals. Their primary responsibilities include defining the project goals, providing funding, and ensuring that the final building aligns with their vision for a modern educational environment. The client plays a pivotal role in integrating IoT and AI by outlining the required technological infrastructure in collaboration with stakeholders. Define Requirements: The client must clearly define the scope of IoT and AI integration in the smart classrooms, lecture halls, and laboratories. Design and Planning: The consultant must create detailed designs for smart classrooms and laboratories that allow for seamless integration of IoT and AI technologies. They ensure that these technologies are correctly implemented and functioning. Their responsibilities include:

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