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REQUEST A SUPERVISOR	Dave Drohan
PROGRAMME	BSc (Hons) in Applied Computing
APPLIED COMPUTING STREAMS	Internet of Things
PROPOSED PROJECT TITLE	IoT Android-based mobile application for monitoring home growing of plants and produce
PROJECT OVERVIEW	<p>I would like to create a IoT mobile application that combines hardware and software to monitor and assist in maintaining home grown produce and house plants. This project is not to automate the process of growing your own flora at home, but to encourage people to start growing their own produce and house plants at home without the stress of not knowing what they are doing wrong.</p> <p>The hardware side of this project would be equipped with sensors that monitor the soil moisture, environment temperature and light exposure of the plants. It then sends this data to the cloud, which displays the relevant data on a mobile application. Users can create accounts and set up a database of what they are currently growing. Depending on what the user is growing, the system will calibrate the sensors behind the scenes to monitor for the specific plants environment. This allows for the hardware being used to be modular.</p>
WHICH SUBJECT AREAS ARE RELATED TO THIS PROJECT IDEA? YOU MAY CHOOSE MORE THAN ONE.	Cloud Computing Internet of Things Software Development: Front End Software Development: Back End Software Development: Mobile

WHAT HARDWARE AND SOFTWARE TECHNOLOGIES DO YOU PLAN TO USE?	Arduino Soil Moisture, Light, Temperature Sensor Kotlin C++ CSS & HTML AWS
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PERMISSION FOR SUBMISSION TO BE REFERENCED AS A SAMPLE STUDENT SUBMISSION.	Yes
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