2021 Final Year Project Definition Form

Project Title:

Design of an online demand management platform for a fresh produce supply chain

Company details:

University of Pretoria, department of Industrial and Systems Engineering

Company background:

Not-Applicable

Project description:

(Please stipulate the problem statement or opportunity for improvement; and the project scope)

There is large waste in the harvest and post-harvest operations in the fresh food supply chain across many African countries. A lot of this waste is due to lack of proper demand management along the chain. While many efforts have been made to address the problem of food security in Africa by focusing on improving the supply of the food items, little seems to have been done from the paradigm of the minimisation of waste along the chain. This work will focus on addressing the problem of food insecurity in many African countries by applying the demand management principles of operations management in an integrated manner with information systems design to eliminate a lot of the wastes observed along the supply chain and creating an online demand management platform that would synchronise demand and supply along the fresh produce chain. The lecturer would work closely with the student about designing the platform, but the student would be deeply involved with the coding.

Industry mentorship:

The University mentor would also double as the industry project mentor.

Industry mentor contact details:	Adetunji, Olufemi, Prof	*Olufemi.adetunji@up.ac.za*	*0722324840*

Project topic application process:

Interested student should email me as soon as they can. While all applications would be considered, preference may be given to those who apply first.

Any other relevant information:

(Please include any other relevant information)

It would be important for the interested student to have a good knowledge of html 5 and CSS for the front end programming. It would also be beneficial to have an idea of back end programming using any of the possible languages, preferably Java, or be interested in learning it.