CSCU9Z7 Project Proposal

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| \*Degree Programme | *BSc Hons Software Engineering* | |
| \*Project Idea Number | *N/A* | |
| \*Project Title | *Smart Agricorping Chatbot* | |
| Long Title | *Agriculture based website with integration of AI and ML In a chatbot* | |
| \*Supervisor | *Your proposed supervisor* | |
| \*Industrial project? | *Yes/No* | *If yes, name of the company and of a contact person* |

(Fields marked with a \* are mandatory.)

What’s the problem? What’s your aim, and what are you going to deliver?

The Main problem identified is people are unable to know if the purchased goods (fruits and vegetables) is pure organic or chemicalized and people wish to have direct contacts with the providers as the markets sellers are not providing accurate information regarding a product.

The main aim is to deliver an end product where people are able to directly have contact with farmers who sell their product and also provide a feature to directly purchase good from them.

A website integrated with a chatbot is going to be delivered as the final product as it would convenient to be access and use in any device without any limitation.

Why is it an interesting problem?

COVID-19 epidemic, demand for safe and healthy food is now on the rise, making it an ideal time to seize a win-win scenario for farmers, buyers, and the environment.  Consider developing a buying or selling organic food ecommerce marketplace for farmers and suppliers to enable local producers interact directly with customers or restaurants (B2B agriculture marketplace).

What is the main challenge?

Buyers to get right information about the product of what they are looking for should be accurate & genuine, which can’t be manipulate by wrong sources, Farmers to get value to their efforts through their Product. The comparison charts and information side by side what buyer looking for and what farmer producing.

How will you evaluate your solution?

During the epidemic, many farmers chose to go digital to overcome challenges and improve their businesses using online platforms through Social media (WhatsApp/Facebooks/Twitter etc ) But not at level of data source availability & value driven information to customer. Understanding the market vacuum, social enterprises are looking into how they may use the internet’s power and the growing availability of mobile phones to establish direct market connections between farmers and purchasers.

Through my solution the availability of information &sources of product availabity will help to drive people too wards better choice of healthy food consumption & .Also supports sustainability Goal No 3.Good health & Wellbeing ,Goal No 12 Responsible Consumption & Production, Goal No 13.Climate Action. Also supports Goal No 9 Industries Innovation & Infrastructure.

Resource requirements: hardware, software, data sets

JAVA Based Product Development which includes Cloud solution using Micro soft AZURE xxxxxxxxxxxxxx

Supports Web based user Interface Responsive through mobile devices & Web

Native App through smart devises

Chat Bot using AI ( Python )

Data interpretation through ML (Machine Learning) (Python)

API.

Requirements

DOMAIN to host Website

Hosting server to host Domain (Cloud or on Premise)

API for payment gate way Integrations.

Licenses if required for Security & third part tools

1. Smartphone (android version 4.4 and above)
2. Windows operating system
3. Mac Operating system
4. Having an online internet connection
5. Any web browser which supports html and CSS for viewing