

Project Design Phase - I

Assignment Date	06 October 2022
Team ID	PNT2022TMID43438
Project Name	Fertilizers Recommendation System for Diseased Crops
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behaviour, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

Example - Solution Architecture Diagram:

Deep Learning Algorithm is used to process the images and then it is evaluated. Then a model is built on the evaluations, it is then trained using no. of. inputs and predictions are given to the users which subsequently helps in recommending the fertilizers. The Convolutional layers are used to classify and process the images and further helps in recommending the fertilizers. The image classification steps are:

- Image acquisition
- Preprocessing
- Segmentation
- Disease Prediction
- Fertilizer Recommendation

Solution Architecture

