# Project Design Phase-I
# Solution Architecture

| Team ID | PNT2022TMID08365 |
|---------|------------------|
| Project Name | Project - Fertilizers Recommendation System For Disease Prediction |
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**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:

- First, a light polygonal leaf model-based segmentation phase is carried out, and the results are then employed to direct the evolution of an active contour.

- The leaves are then categorised across leaf datasets by combining global shape descriptors provided by the polygonal model with local curvature-based characteristics.

- In order to direct the evolution of leaf borders, a first segmentation step based on a graph cut technique is first carried out.

- Implement a classification algorithm to categorise the diseases, and then provide fertilisers for leaves with impacted diseases.

**Example - Solution Architecture Diagram:**