**Project Design Phase-I**

**Solution Architecture**

|  |  |
| --- | --- |
| Team ID | PNT2022TMID08346 |
| Project Name | Project - Fertilizers Recommendation System For Disease Prediction |
| Name | Surjith G (Team Member) |

**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:**

