Project Design Phase-I
Proposed Solution.

Project Name	Exploratory Analysis of Rainfall Data in India for Agriculture.
Team ID	PNT2022TMID40045
Date	16 Oct 2022
Max Marks	2 Marks

S.NO.	Parameter	Description
1.	Problem Statement. (Problem to be solved)	India economy depends upon the agriculture, but the cultivation of land depends on rain fall rate. If the rain fall rate is sufficient then the cultivation will be sufficient. In total India the 70% population depend on framing directly or indirectly. Agriculture productivity depends on number of factors that may be soil, water facilities, fertilizers, and good marketing conditions. The production mainly depends on the water resources, the resources of water in India is main rainfall.
2.	Idea /Solution Description.	The system takes the user collected past data from the report of farmers and applying the data science linear regression and classification algorithm such as k-means to cluster the different group of the dataset. These groups help in the prediction and improvement in near future crop yield. To predict and analysis the crop prediction we used the dataset of rainfall in India.
3.	Novelty / Uniqueness.	Avoid decrease in crop productivity due to rainfall in India.
4.	Social Impact / Customer satisfaction.	This proposed system provides many facilities which helps the farmers to maintain the crop field without much loss.

5.	Business Model (Revenue Model).	This prototype can be developed in minimum cost with high performance.
6.	Scalability of the solution	This can be developed to a predict rainfall by using dataset and predicting the rainfall through dataset of rainfall in India and Analysing the rainfall in cloud and operation is performed using linear regression and classification , k - means clustering..