

# Estimate the Crop Yield using Data Analytics

## Project Design Phase-II Solution Requirements (Functional & Non-functional)

### Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement ( Sub-Task)
1	User Registration	Registration through forms Registration through Gmail Registration through IBM Cognos
2	User Confirmation	Confirmation via EmailConfirmation via OTP through SMS. Confirmation via
3	User Profile	User Details Farm Details
4	Required Data	The past crop yield data and data of the Farmer to analyze their yield.
5	Analysis	Analyze the data by means of set of past data of the multiple users which is farmers.
6	Estimation	Creating the perfect data module, visuals using IBM Cognos to increase the estimation of the crop yield

### Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
1	Usability	The data report is created according to the past data yield. By considering these recommendation the sowing of crops will be decided.
2	Security	IBM Cognos have a high-secure user information.
3	Reliability	The interactive data visuals of the dashboard canmake easy to understand by the farmers.
4	Performance	Interaction makes better performance between all user and the visuals through visualization.
5	Availability	Actively available to all source like smart phones, laptops, systems etc.
6	Scalability	The flexibility to implement the proposed solution is very easy that results in increasing of the estimation of crop yield compared to farms for different user.