LITERATURE SEARCH.

The goal of the review involved in role playing constraints like temperature, humidity, light, water nutrients etc.

Results from several research questions in which I researched showing how to calculate the moisture of the soil so that a farmer can give required amount of water to the plant depending up on the soil moisture level of soil this research is also helps in water measurement for future generations.

Search strategy:

I followed a comparable hunt methodology and looked through two databases to be specific IEEE investigate and ACM computerized Library they likewise remembered numerous articles for brilliant water system framework and water the board

From the writing composing (portable coordinated savvy IOT based shrewd harvest field checking) is acted in this article, this article causes me in finding the significant assets to secure and spare the water for future needs, this framework concentrated on helping the ranchers that gives the water to a yield at rigid time and amount and IOT (Internet of Things) from this paper is utilized to control framework from far off zone over a web

From the paper (programmed water system framework utilizing soil dampness sensor and temperature sensors with miniaturized scale controller) distributed in July 2017, The task plans from this paper is developed in light of the fact that this procedure assumes an imperative job in the spots where the water shortage is low for this small scale sensors are utilized

From the ACM advanced Library of 2018 (brilliant Irrigation Technology for effective water use) the outcome found from this paper is probably going to use on my examination question to actualize remote sensor systems for water effectiveness

From the ACM computerized Library of (keen IOT – based water system framework with robotized plant acknowledgment utilizing profound learning, from this paper the thought for my exploration is created to click a plant and recognizing its necessities with the assistance of portable application

Inclusion and exclusion:

Agriculture is the backbone for human sustenance. There are many problems to be addressed around here.

For the project, additional our goal is we picked few important role-playing constraints like Temperature, Humidity, Light, Water, nutrients etc.. We monitor plant health, predict

weather and suggest measures to be taken on the plants, to avoid unhealthy produce and its wastage, optimal use of agro-chemical solutions to needed plants, and yield a good impact on the overall economy. When the plants are in need of any of the above mentioned constraints, alerts will be sent to the customer to address the plant. And the alerts can be customized too. The proposed application can be made

possible through the latest tech services like IOT sensors to capture plant images and weather data, Arduino, ML and Artificial Intelligence, Android, and many more services, all under the CICD framework.

The solution is not limited to the above addressed constraints alone. It can be leveraged across various industries! Any application that is packed with AI features, the capability of that system turns to be endless. This application can be one such innovation and has greater possibilities for implementation across industries. The consumer version of the application can be extended with drones, to detect soil erosion, alerting the farmers from wildlife attacks, pest infestation, disease detection etc. And can also be applied in various sectors like Manufacture and processing of tea and coffee, Health industry to detect skin diseases, hair density, hair fall, etc. All it requires is a few tiny pieces of code to be embedded, and little enhancement in a couple of hardware.

Since the use of hardware is minimal and the architecture designed is efficient, we can also say that the app turns out to be financially feasible, has great market potential and competitive advantages too.