Smart Vegetation system

# Overview

## Project Background and Description

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|  | **The project is about Hydroponics and how to replace the soil and sun as they cause a lot of problems, where hydroponics can overcome these problems with ease and find a solution for every user even make it easier by automating it, fully monitored, where you only need to put the seed and leave it to become a plant with no intervention in a very small area or even big as it’s needed. It only needs water, and the rest is on us.** |

## Project Scope

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|  | **It aims to make the agriculture easier, faster, more efficient, different areas and sizes, and even with minimum cost to meet every one’s requirement.**  **Fully monitored offline or online with the web application, any user can do it with no knowledge about anything as we deal with the plant with deep learning algorithms and Embedded system control.**  **The user will need to make some interventions but after a very long time with separated long periods with our reminders and easy steps to follow.** |

## High-Level Requirements

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|  | **Basically, we need some primitive requirements:**   * **Water and nutrients** * **Containers and growing media for seeds**   **And some advanced requirements:**   * **Controllers and sensors.** * **LEDs replacing the sun.** * **Pumps and some electronic components.** |

## Deliverables

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|  | **Agriculture is needed everywhere and every time where it can’t be replaced, so we have a big list of deliverables that can be benefited from it.**   * **Individuals** * **Farms** * **Poor soil or bad weather areas**   **These points have a lot to include within them.** |

## Affected Parties

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|  | **All parties would be affected with it as the growth rate is much higher but mainly the “Food companies and anything that follows them”.** |