# Graphical user interface, website Description automatically generatedProject Application

## Group Details

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| Batch: | 19 |  |  |  |  |

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| Group Number: | 9 |

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| Group Name: | Fusion |  |  |  |

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## Project Details

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| Project title: | Tele environment machine |
| Problem Identification: | Most plants need specific weather and physical conditions to grow. Those plants can grow only in several areas. It is one of the main reasons for the world food shortage and malnutrition. Also, it causes high food wastage and high costs for foods. |
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| Literature What does the tele environment machine do is, implement a weather of place A at  Review: a place B. So, it can grow plants that need conditions from place A at place B. Also, it can implement conditions without seasonal and regional boundaries. |  |
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| Solution Proposed | | |
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| Methodology: | We come up with a real time IoT solution. We collect data from specific areas where those different plants can grow in real time and transmit them to our servers. For an example, the properties of soil and weather information. Then our IoT devices can implement those conditions in other places. | |
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| Technologies and tools used within the project: | Internet of things.  Environmental sensors.  Weather sensors.  Embedded systems.  Server client architecture and web sites.  Mobile apps. | |
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| Impact to the society/industry from the solution proposed: | This is a solution for world food shortage and malnutrition. The society can have a stable food supply throughout the year without even seasonal and regional limitations. This product can also use to provide exact conditions for animals in the zoos after some developments. | |

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| Implementation | | |
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| Tentative Timeline (Rough idea on what to be completed by mid and end review): | We are planning to complete the prototype for collecting and transmitting weather by the mid review. And we hope to proceed and complete the tele implementation part (which is the second station) of our product. | |
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| Budget: | Weather station to collect data.  (With all sensors and backup power module) – 37000  Tele environment machine main unit – 38000 + 30000  (Equipment’s need to implement weather condition with sensors)  Total Approx. = 105,000 | |
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| Resources intended to be requested from the SPARK Project to facilitate the project: | Resource persons from agriculture sector.  As our project needs to create a prototype station, we need a suitable and stable place to implement it. If we can have a small space from university premises, that will be better. | |

PS:

* Please edit this document and limit your submission to 3 pages.