1. Name of Use Case

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| **Name of the Use Case** | **Smart Greenhouse** |
| **Version No.** | v0.1 |
| **Submission Date** | 10/12/2022 |
| **Team Members (with student ids)** | Ravera Stefano (271156), Redi Alessandro (310471), Scardi Alessia (317628), Volponi Federico (309709) |

1. Scope and Objectives of Function

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| **Scope and Objectives of Use Case** | |
| **Scope** | The proposed IoT platform aims at providing services for a smart greenhouse management. |
| **Objective(s)** | The objective is to fully automate a greenhouse and release essential information to the owner thanks to the placement of sensors and user-awareness applications. |
| **Domain(s)** | Agriculture 4.0 |
| **Stakeholder(s)** | Farmers |
| **Short description** | The proposed IoT platform aims at automating the main functions of a greenhouse. Through the integration of IoT devices it is possible to monitor the humidity, temperature and CO2 levels of the greenhouse.  …..  The main features of the IoT platform are:   * Humidity and temperature monitoring (both for each plant and for the whole greenhouse) * Air monitoring and fans control * Irrigation control * Plants datasheet * Applications for user-awareness |

1. Diagram of Use Case
2. Complete description of the system
3. Desired Hardware components (only among those we can provide)

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| **Device Name** | **Quantity** | **Needed for…** |
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