When deciding to own plants, people should first consider what kinds of plants work best with their lifestyle and environment. Luckily, there is a wide variety of plants to choose from starting with low-maintenance ones such as cactuses, to high-maintenance tropical plants. But even the most low-maintenance ones still require some level of attention (Mindbodygreen, 2018). For this purpose, monitoring the external conditions of the plant such as the air humidity and temperature could play a key factor in providing it with the right care that includes tasks such as watering the plant and turning up the heat, thus, the system has been designed from scratch in order to facilitate the growth and maintenance of plants. This project report has the purpose of describing all the methods, stages and iterations that went into implementation of this project, using Java, C, C# as the main programming languages. The system has been fully designed with the end-user experience in mind, making it easier for him to keep track of the external conditions of his plants, and also allow him to do actions such as watering his plant even if he is away from home. The entire system is designed in 3 parts, by different groups, which each focus on different tasks: Data, Embedded programming and the development of the Android Application.