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ICTIM |

Report Project 2.2

Inhoud

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# Introduction

In this document we will be covering our project and the required case question. Chapter 1 contains all the necessary requirements for our application. Chapter 2 is about the OS including the raspberry, with an explanation for our choices.

# The requirements set by the customer

During our first meeting with the client we asked them a few questions, about their requirements for the application.

Here are the questions we asked them and their answers:

Q: What kind of charts would you like to see used?

A: It would make sense to look at what we are going to use the system for, and our actual goals with the system. So, we are a food export and as such we are going to use the system to ensure the sufficiency of our products.

Q: What do you need specifically?

A: We know that forecasts are important, as like humidity and the temperature(metric). They are important for the ripeness of the fruits.

Q: Is there anything particular that we should note when we build the service for your climate.

A: We know that the expectations are ideal conditions for harvesting and regrowth, it is going to be 90 to 95 percent humidity and the ripping temperature is 18 to 22 degrees in roughly two months.

Q: How many times do the data need to be refreshed?

A: Each 5 seconds.

Q: How long would you like the data to be saved?

A: One month for each entry.

Also we noted the following during our meeting:

“It would be ideal for the software to be easy to use.” (user friendly)

# OS Including Raspberry

For this project we are using ubuntu server and Raspbian lite as our OS. The reason we chose Ubuntu server is, because its small and not hardware intensive as server OS with a GUI for example. Also there is a large community for Linux in general, which can give more help and support, if we need it. Lastly our pi is provided with Raspbian lite, so less is required from the hardware and it’s a popular choice.

# JVM and Raspberry (Network)configurations

The raspberry is configurate to enable SSH and with the most resent version of java installed.

# Pi network connection

The pi accessible via Rsync, with this tool the pi is remote accessible on the server using SSH.

# Configurations and scripts

# Java implantation

# Storage Structure

We created our own data file suwsp

# Presentation

During our first meeting the client requested we create an “User friendly” website. On this website the client is able to login and register. After registering and logging in the client will be redirected to the home page which will show all the temperature and humidity of North-Africa. The programming languages that we used for the website are: PHP, CSS and HT