1)Overview

1.1) Introduction

Definition (what constitutes) in this project (1-3 para)

1.2) Scope

2) Intended Use

2.1) Intended Use

2.2) Assumptions and dependencies

3) System Features and Requirements

3.1) Platform Requirements

a) Deployment of the platform

b) Different actors on the platform

c) Applications overview on the platform

3.2) Functional Requirements

a) Registering sensors

b) Interaction with IoT sensors

c) Development of application on the platform

d) Identification of sensors for data binding

e) Data Binding to the application

f) Scheduling on the platform

g) Acceptance of scheduling configuration

h) Starting and Stopping services

i) Communication model

j) Server and service life cycle

k) Deployment of application on the platform

l) Registry & repository

m) Load Balancing

n) Interactions between modules

o) Packaging details

p) Configuration files details

q) Interaction of different actors with the platform

3.3) Non-Functional Requirements

a) Fault tolerance

a.a) Platform

a.b) Application

b) Scalability

b.a) Platform

b.b) Application

c) Accessibility of data

c.a) Application

c.b) Sensors

d) Specification about application

e) UI and CLI for interaction

f) Security - Authentication and Authorization

g) Persistence

3.4) External Interface Requirements(If any)

4) List the key functions

a) A block diagram listing all major components (~components)

b) Brief description of each component

c) List the 4 major parts (each team will take one part)

5) Use cases

a)List what the users can do with the solution

b)Who are the types of users (name, domain/vertical, role, what they are trying to do when they need the system)

c)Atleast 5 usage scenarios.

Give name, and a brief 3---5 line description.

6) Primary test case for the project (that you will use to test)

a) Name of usecase

b) Domain/company/environment where this usecase occurs

c) Description of the usecase (purpose, interactions and what will the users benefit)

d) What is the “internet: angel around these things

e) Information model

f) How is location and sensory information used

g) Processing logic on the backend

h) User’s UI view- what is their UI, where and all will they do with this systems

7) Subsystems

a) Key subsystems in the project

b) A block diagram of all subsystems

c) Interactions involved across these subsystems

d) Protocols. Mechanisms.

e) External interfaces with the system

f) Registry & Repository

g) The four parts of the project (each will have its own team req. doc to be submitted)

8) Brief overview of each of the four parts

a) What are the four parts (each team will work on one part)

b) For each part

c) Functional Overview of each part

d) One block diagram giving more details on this part

e) List of sub-systems in this part

f) List of services/capabilities in the part

g) Interactions between this and other parts. Nature/purpose of interactions, likely interchange info/services