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| Draft - OFFER  rev.A  **RIF:1002112** | OBJECT:  Crack Offer  Author:  *Mattia Micheli*  *Pietro Folletti*  *Edoardo Passarino*  *12/12/2022*  *Performance Group spa* |

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## Context

This document collects the elements related to the definition of our offer to the requests:

The main points of the analysis are:

* The physical network within the city(how it's connected)
* The best internet infrastructures
* The available services
* The amount of petty crimes in the area
* The cost of local labor
* The best investment by 2030

## Objectives

This document collects the elements related to the description of an offer for the design and implementation of:

* A Machine Learning model that groups the various points of interest of each city
* A detailed view of the collected data

## Implementation

For the implementation of the project, we decided to use:

* Talend for Ingestion and ETL phases
* MySQL hosted on an AWS cluster to store the data
* Python scripts for the Machine Learning and Data Mining phases
* PowerBI for the visualization of final data

All development phases will be carried out in contact with the customer

*Specifically, we propose the detail of the division into phases:*

## Phase 1 – Requirements Analysis and Dataset Collection

* Definition of development requirements
* GANTT chart of the project (*effort&elapsed*)
* Data collection
* **REVIEW with the customer**

## Phase 2 – Design :

* Software
  + *Ingestion, Transformation* and *loading* data to the cloud
  + Access the DB via Python and develop the Machine Learning model
* **REVIEW with the customer**

## Phase 3 - Prototype in a development environment

* **REVIEW with the customer**

## Phase 4 –Test and Deploy

* **REVIEW with the customer**

## Economic Proposal

Our best offer to support the design and implementation of the system in question:

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| --- | --- |
| **Planning** | **12.000$** |
| **Implementation** |  |
| * **AWS** | **0.298$/hour** |
| * **mySQL** | **5,000$/year** |
| * **Talend** | **1,170$/month** |
| * **PowerBI** | **5,000$/month** |
| * **Additional Dataset** | **2,000$** |
| **Total** | **25.400$** |

The offer is based on the information in our possession as of today.

The purchase of components and material is the responsibility of the customer, subject to your authorization.

Anything not included in the offer will be billed on a final basis according to rates and methods to be agreed.

The above prices are to be understood as excluding VAT

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| --- | --- |
| *Delivery* |  |
| *Fatturazione e*  *modalità di pagamento* |  |
| *Validità offerta* | *Fino al 23/12/2022* |

Available for further clarification, we take this opportunity to offer you our warmest regards,

*Performance Group S.P.A.*