Proposal of Cloud Computing project

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## 1. Description of the problem addressed

The goal is to exploit the idea of the Amazon HUB used to withdraw the delivering of orders by Amazon's users and mix it with all the big companies' availability to make something kind and good for people, without any loss for them.

Assume that we can leverage courier Services like Giovo, Deliveroo etc, the proposal is to give the chance to poor people to make an order at these HUB points, paying as much as they can and then retrieve their order there. We will cali this order “Wish”.

How can someone order something without paying thè entire cost of thè stuff? The idea is to involve big companies of supermarkets, food industries and wear house like *McDonald's*, *La Piadineria*, *Alice Pizza*, *OVS*, *H&M*, *Conad*, *Carrefouretc* and make it happen that: whenever a Client pay for its stuff he can choose to leave a free donation starting from 1€, that will sum into a shared wallet. Those money will be used to pay the remainder cost of the Wish for an order specific for that company. Another cruciai point is the No-Waste solution: Following thè idea like TooGoodToGo, we strongly invite those partners to share their leftovers in these Hubs at the end of the day, in such a way people can retrieve stuff without waiting for a shipment.

**Making a practical example:**

A person chooses from the hub his wish, interacting with a touchable self explainable interface. Let’s assume he orders a menu from McDonald’s that costs 10€, he can pay only 2€ but it’s not a problem because he can request the order. Once done, he retires his notifier device from the assigned box of the hub and waits for the shipment. The System continuously checks if Me Donald’s wallet is enough for paying thè remainder of 8€, once it can be paid the System sends directly the request of the Wish to the courier Service and pays McDonald’s for the order. Once the shipment arrives, the notifier device must be replaced where the Client found it.

For simplicity of managing the shipment to one market to the hub, we assume that all the points of presence of the companies share the same wallet. Namely, this means that once the wallet has enough money to buy a Wish, it sends a request to the market that is closest to the HUB, not to the market that has accumulated the necessary money.

**Data Mining insight:**

We can use the data from the HUBs to gather information about the time of serving of each company. Intuitively multinational food/warehouse chains have a big flow of customers hence thè waiting time for an order to them is shorter than others.

## 2. Design of the solution