Design Document
for
Make Commerce Happen

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Introduction:

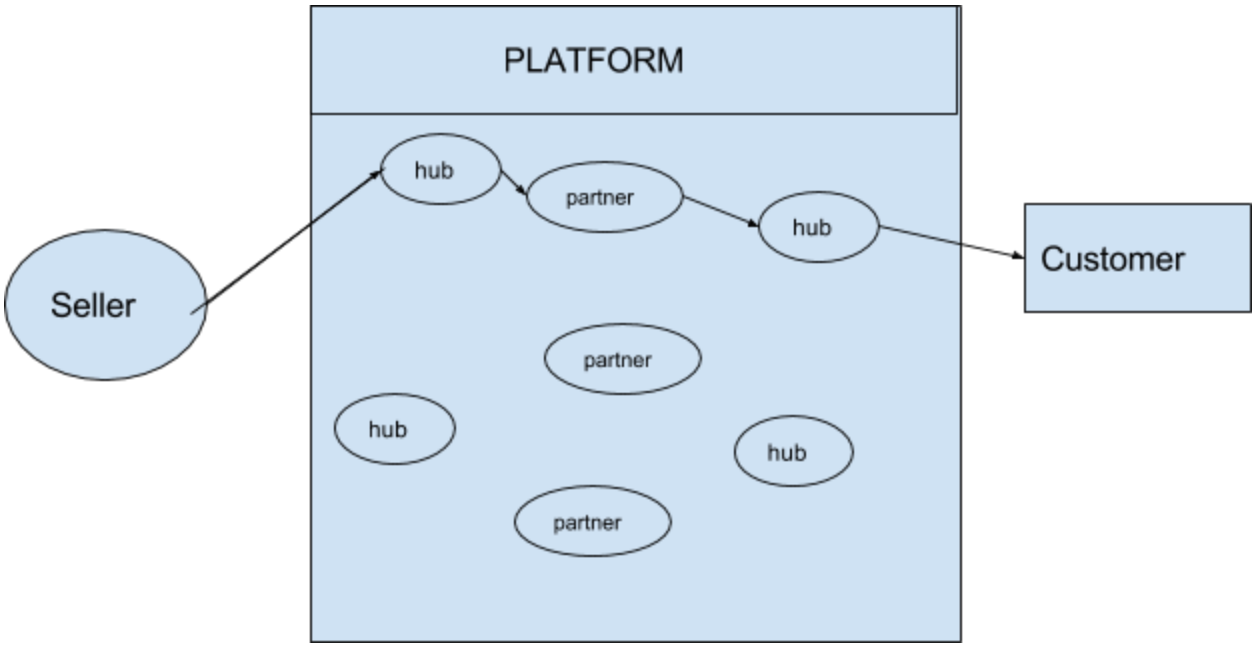
This is the design documents for make commerce happen, a transhipping project. Here we need a platform which takes shipping information from the seller as the platform input and delivers to the customer cost effectively.

StakeHolders:

Stakeholders are:

1. Hubs
2. Partners
3. Customers
4. sellers

System Architecture:



Algorithms:

We are going to use customized distances-vector algorithm.

Distance -vector Algorithm overview :

The **distance-vector routing Protocol** is a type of algorithm used by routing protocols to discover routes on an interconnected network. The primary distance-vector routing protocol algorithm is the Bellman-Ford algorithm. Another type of routing protocol algorithm is the *link-state* approach.

https://en.wikipedia.org/wiki/Distance-vector_routing_protocol

Services :

1. BootStrapping Platform - It will initialize all the nodes(hubs, partners) with distance and cost information.

2. Send a parcel information to platform to see the best route.
3. Changes in platform (add/remove nodes, change node information)

Inputs:

a. Item information to send.
b. Platform bootstrapping information(one time)
c. Platform change information.

Outputs:

We are showing the cost effective route from seller to customer drawing a route (a line) with node (hubs, partners) informations on browsers .