

RECENT ADVANCES IN LIGHTNING DELIVERY SYSTEM

Ramesh.B.E

(Associate Professor, Computer Science Department, S.J.M.I.T, Chitradurga, Karnataka, INDIA, be.ramesh@gmail.com)

Prajwal.TV

(BE,3rd semester, Computer Science Department, SJMIT, Chitradurga, Karnataka, INDIA, Prajwal.tv2581999@gmail.com)

Vishwas.G

(BE,3rd semester, Computer Science Department, SJMIT, Chitradurga, Karnataka, INDIA, vishwas.gnanmurthy@gmail.com)

Dilip.TS

(BE,7th semester, Mechanical Department, SJMIT, Chitradurga, Karnataka, INDIA, dilipthudumans@gmail.com)

Indrakumar.DM

(BE,3rd semester, Computer Science Department, SJMIT, Chitradurga, Karnataka, INDIA, kumarindra812@gmail.com)

Kunal

(BE,3rd semester, Computer Science Department, SJMIT, Chitradurga, Karnataka, INDIA, kunal0242@gmail.com)

Nayana.PC

(BE,3rd semester, Computer Science Department, SJMIT, Chitradurga, Karnataka,INDIA,nayanapcreddy@gmail.com)

Nanditha.C

(BE,3rd semester, Computer Science Department, SJMIT, Chitradurga, Karnataka,INDIA,nandithacnandhu@gmail.com)

Harshitha.GJ

(BE,3rd semester, Computer Science Department, SJMIT, Chitradurga, Karnataka,INDIA,harshithagainga12@gmail.com)

Abstract-Lightning Delivery System(LDS) is an upcoming idea for delivering the goods very quickly. There are number of existing companies in the market who are delivering the products in days together .But LDS is to deliver a goods in faster with Highspeed , High security ,Transparency ,Genuine etc.LDS using various method in which we can do something faster than existing delivery system and more advanced ,blending technology with ideas to create new EUREKA. To create new thing we have made some imaginations and prototype for our idea to LDS.

Keywords: Highspeed ,High security ,Transparency ,Genuine

Thw various methods to follow to improve fast delivery system for the economical way

1)Enterprise Resource Planning

2)prepare for customer clearance in advance

3)Alternative roadmaps

4)Delivery points

5)Housed with their own database and network

6)Supply chain management

7)Customer Relationship Management(CRM)

8)Supply Relationship Management(SRM)

9)Human Relationship Management(HRM)

10)Special vehicle and equipment's(shipping through drones)

HISTORY:

Let us recall of an Thomas Alva Edison who invented an electric bulb which showed a path of transformation of night darkness to the bright and beautiful. On his lecturing about the invention of bulb, one of the audience asked what do u call that light which was born at just a bit and he spanned a sec and said it is the "flash". Like this an empty minded in me came a flash of idea to transport the goods. As the quote says "EXPERINCE MAKES BETTER" in the same way "EXPERINCE MADE MY IDEA BETTER". An interesting fact is I personally experienced this transporting problem in E-Commerce transportation services that was like hell. The problem was an easy that can be solved, and i got that in different way and there was a born of LDS literally this was the thing which made me to think different.

1.INTRODUCTION: We have some currently service providers of transporting the products like AMAZON'S ONE DAY DELIVERY, FLIPKART TRANSPORT SERVICES & other logistics too.

But we are concentrating on the E-commerce where the logistics can be improvised and made really better using our technology and ideas.

2.MAIN LOGIC WITH 3 STAGES:

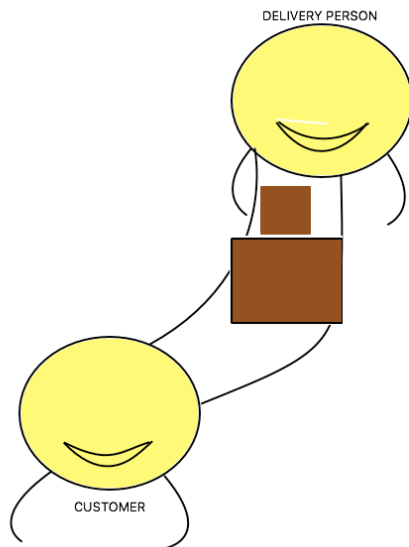
This has mainly three stages:

- a)THE CUSTOMER
- b)THE TRANSPORTATION
- c)THE SELLER

a)THE CUSTOMER

The customer are very important and play a key role in this process as we know “CUSTOMERS ARE THE

GOD”.All the decisions can be made by customer according to his favor they can decide the shipment when to be delivered they can automizers the delivery of the shipment .Yes we believe that the shipment is to highly secured. For this purpose we will be adding an simple tracking device which can help for us to track for live ,so that we can know when the shipment are arriving and expected to deliver.



For an Example :We think the customer has ordered a product from BANGLORE to CHITRADURGA.

The customers product will be ordered through the online using our webpage. The request will be sent to the seller via online. From here the customers has ordered a product he gets an confirmation message and the different think we used here is not only sending an info but we send photos, videography to their account so that they can see their product at that time itself so that they can check their product details like product number, code etc..,

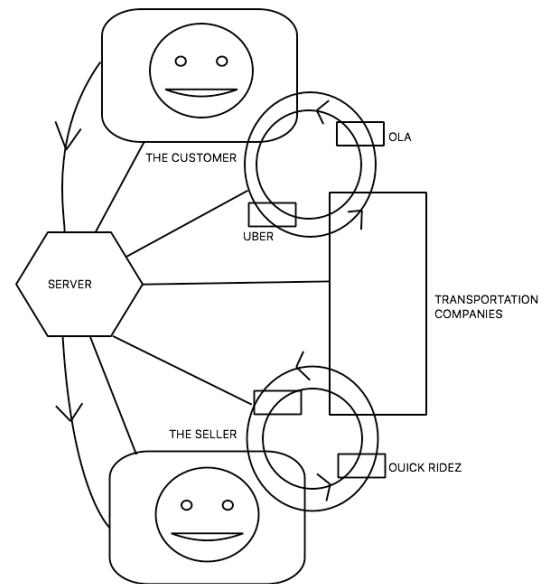
b)THE TRANSPORTATION

This is the main bridge between the customer and seller. Here we can use transportations like currently we have like AMAZON uses their vehicles and others the same. The main drawback of this type is the vehicle travels once in a day from the top of INDIA to the bottom and vice versa. This makes the major problem to transport. To abide this we have brought up new type of idea between them only.

That is not only we can use main transport for buses we can use other commodities.

CONTINUING THE EXAMPLE:

Here the seller has sent the product details and other. Now it’s time for ship the product. Let’s go for an pictorial representation like.



Here..,

The customer selects the product in which the Server gets the request and it will be sent to The seller ships the product through the mini rides(ex: Ola cabs ,Uber cabs, Quick rides etc..) like which connect the seller and the transportation services(ex: buses ,ships ,airplane).The transportation services will take from the shipment from the seller to the customer which take an major time consuming will be reduced. As the transportation services take the shipment from the seller to the customer .Again the other mini transportations will take the shipment to the consumer.

Breifly we can classify as:

A)MINI TRANSPORTATIONS:

The mini transportations are like which take shipment from seller to the main transportations “BUT HOW” This the main challenge, we need to hire some of the cab companies like (Ex:Ola cabs ,Uber cabs, Quick rides etc..) which they will take the carriage from seller to the main transportations.

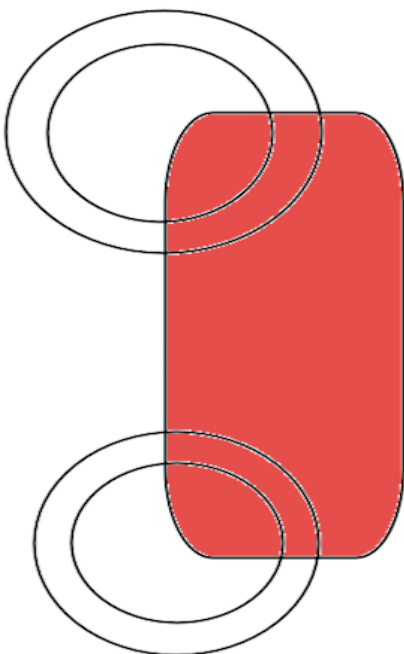
Thinking again...let’s take an same example:

Let us think that the Ola cabs or any of the cabs thinking that they are travelling from a mall which has order which needs to be shipped. Here is the main thing putting like "TWO SPARROWS IN A SHOT". Lets think there is an Ola cab which is travelling from somewhere around the mall and main transportations. Here the cabs owners will take the parcel to the bus stations and other stations let us think the destination nearby that so that the parcel can be delivered. That's how it works

B)TRANSPORTATION SERVICES:

This is the major thing where the long distance can be covered by the buses,aeroplanes,ships..etc, It depends upon the type of service in which we can use so that the short distance can be made so that we can minimize the distance, time ,cost and maximize the security ,transpercency. Now Its time for a long voyage.

As taking same the Example: We have got the parcel from the mini transportation services to the transportation services. Here the drivers of the buses or the drivers of cabs can join the parcel to the major transportation service. So according to example here we have so many number of buses that are moving to and Fro. Let us take KSRTC buses let us think takes the parcel from Bangalore to Chitradurga then it can be shipped in matter of hours. So by this we have reached to the customers nearest hub.



AGAIN THE MINI TRANSPORTATION:

From here again the mini transportation services handle the parcel to the customer. Using the Ola cabs and other services like hour workers Etc....So by this the parcel can be delivered.

As continuing the example: The parcel has arrived to the Chitradurga. As in current situation the Chitradurga is not having any type of cab services. But we have autos who can service for money.

c)THE SELLER:

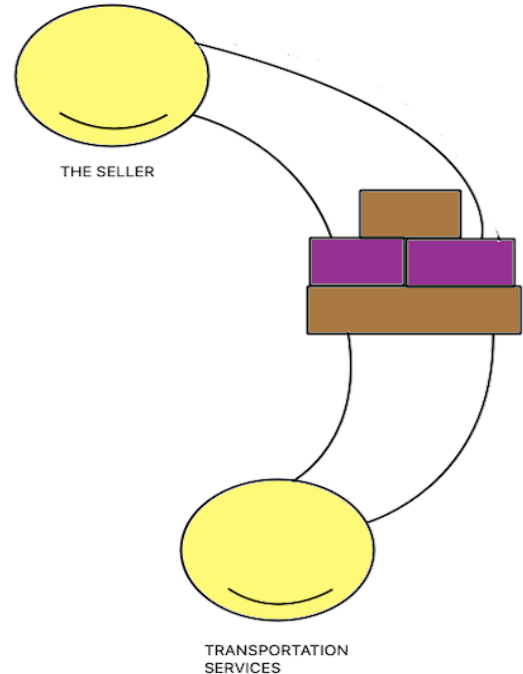
Last but not the least. The person who stands for this main process. Without seller permission we can't move

forward. It all depends on the seller and we are dependent on the seller. As the parcel or shipment is reached to the customer. The customer can accept or reject the product. The product can be prepaid, or it can be paid at the time of delivery. I think at now we have almost nearby reached it.

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As we can continue the example:

The parcel is now transferred from the mini transportations from the bus stations to the customer. Now the customer can accept or reject the product according to his wish and the parcel is delivered.



LDS USES VARIOUS TRANSPORTATION OPTIONS TO SHIP YOUR CARGO ON-TIME IN A COST EFFECTIVE MANNER

Cargo shipping will be categorized as follows:

- 1)Same day/Light and Dark sessions,Day,Evening and night
- 2)Hot shot hours/day
- 3)Scheduled shipments
- 4)All day/Weekends/Festivals/National carnivals

LIGHTNING SYSTEM SERVICES CAN BE SORTED AS:

- 1)Local/Long distance
- 2)Light/Medium/Heavy load
- 3)Air freight/drone/cab service/metro/train/transportation system/motorcycles/auto and green vehicles(bicycles)
- 4)Reliable
- 5)On time delivery

SECURITY:

One of the major improvement for the delivery system is the security measures which we doesn't have right now. Although its just an time to time update but not the real time update this was the small insect which ate my mind. And the curious thing evolved to solution that was one of

the best thing I thought, this was easier, simpler, and amazing security

It was about the adding of GPS (Global Positioning System) to each and every package which has irreplaceable code. This is the major update required for the delivery system. This adds an extra security to our cargo as well as real time update and tracking of cargo using the Google Maps. And we didn't stop here to give the offline tracking services we added another feature and that was using the missed call services. That is if a customer gives a missed call the caller receives a message saying the location of order and arriving time and leaves a SMS for the other tracking purposes. This just works cool.

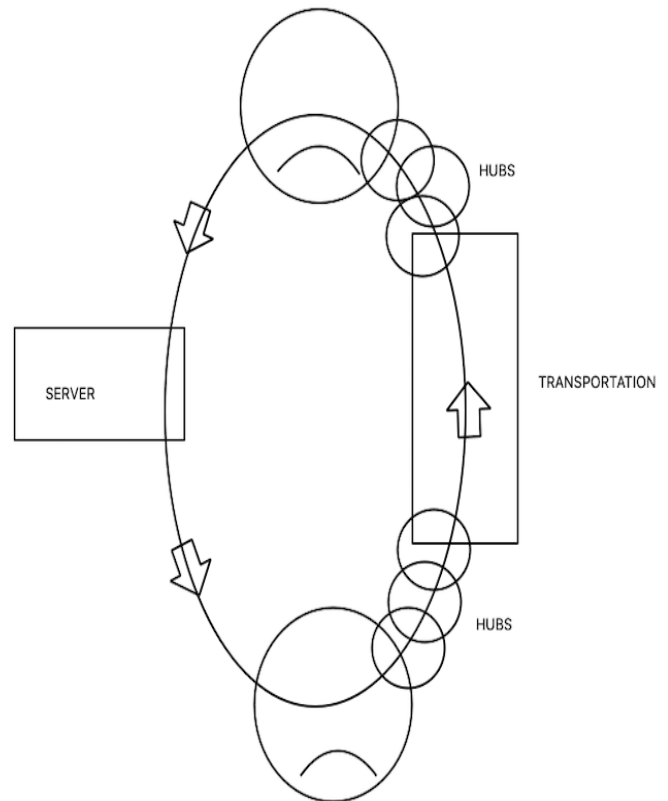
We have two challenging issues in front of us they are the On Time Delivery and Sales order Processing, because we need to give the customer the best satisfaction level we can and on time delivery is the major goal of our project and yet other big stone is the sales order processing, this is indeed a big challenge because the order we get the high ordering and making them processing till reaching is a big job and we need to face it.

DIFFERENT TECHNIQUES WE ARE GONG TO USE TO MEET OUR LDS

- 1) Matrix Coordination
- 2) demand time fence
- 3) PORT (Program Evaluation & Review Techniques)
- 4) CPM (Critical part member)
- 5) Artificial intelligence (AI)

UNIQUENESS OVER THE OTHER SYSTEMS:

- a) Faster the delivery.
- b) Security using the online trackers using the apps.
- c) Sending the pics will really help so that they can check the Genuity
- d) Time management



- e) As we can see in the above diagram the other systems uses the delivery system which is so ugly where the parcels are mixed the other which makes not only to wait to the other people parcel also it so much slow where the logistics carries the goods, only once in a time for a day.
- f) GPS technology for the tracking purpose
- g) We are not only considering on the e-commerce or the major transport streams we are thinking also about the **MEDICAL SERVICES** which in case it can serve any type of emergency situations which can save the time and a life.
- h) Money management indeed we are trying to attract each and every person to take our services as much as possible.
- i) We are ready to serve at anytime like in floods, emergency situation.
- j) Reducing the carbon foot prints in which at a time duple works can be done and using the drone system can decrease the time as well as the carbon foot print which we can contribute to clean and green environments. Not only those these we can used advanced technology for delivery using solar powered equipment's and vehicles.

CONCLUSION:

Nothing in this world is perfect, but we are trying to make as much perfect we can. The user interface using the smartphones make an perfect platform to track their cargo. Where they can complaint, review, demand, contact us and also connecting us for the improvement of the delivery system. Using the simulated historical demand date of users we can reach them if time we cant contact them in direct and also deliver the cargo in case to their neighbors.

Not only using the existing technology we are trying to invent different methods to deliver the best we can. We

can use drone delivery system in the busy traffic delivery system for 95% and green vehicles and other remains part of our system depends on other existing systems.

By this we can reduce major carbon foot prints to make our system to be eco-friendly.

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