



(pronounced as enlight)

A decentralised socionet (social internet)

POWER TO THE PEOPLE

Resource: Enlte Android App

Google Play store link:

<https://play.google.com/store/apps/details?id=com.mpas.enlte>



Disclaimer : This whitepaper is solely a technical paper explaining the technology behind enlte app and protocol. Any information associated with ICO or token sale will be available on the website :

www.enlte.com

Abstract

A decentralized blockchain based system to solve real life problems without going through a centralised government or an organisation. A location based social engine creating an adjustable small world phenomenon with faster and better networking capabilities. It aims to empower individuals by giving them the power to rate any experience using their original identities or rating anonymously and then broadcasting it to their nearby network by sending real-time updates and geo-stamping it along with geofencing the experience. Negative experiences are broadcasted in real time to the nearby nodes, providing them the opportunity to earn enlte coins by helping, spreading awareness and standing up against it. The main aim is to empower every single individual by creating a power platform where a user can upload pictures, videos, ask questions to notify and create a strong awareness in their respective areas. The more one is aware about the happenings around him or her, the more one is active and vigilant to take action and make their communities a better and safe place to live.

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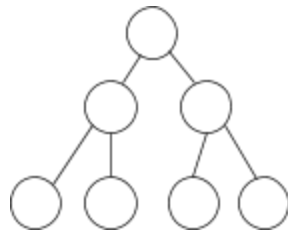
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1. Introduction

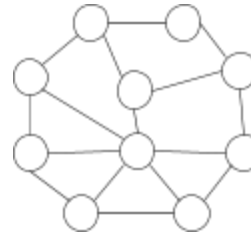
Internet has become powerful and have been accepted by a growing number of percentage of people. Internet has brought people together and have connected them worldwide. However, we as physical beings are connected to world around us. A world which we can physically connect and be physically available to. Internet has connected us virtually but we still lack physical awareness. Thus we are not aware of our surroundings and can not participate in making it better. However internet have provided us millions of use cases but we still lack a internet based social system to receive alerts and updates of nearby happenings based on positive or negative. Millions of cases are pending in the court and there is no way to resolve it.

A centralised organisation or government face several issues while handling millions of cases or request from people to resolve their problem. The process is slow, not decentralised and involve a lot of hassle and energy. Also it is impossible to report anything anonymously and 99% of the people do not want to use their identity while reporting anything.

We propose a location-based small world social internet with the characteristics of providing more intelligent queries, connections and better results. Giving one universal identity of user with power of being anonymous. Using the power to rating an experience to develop a database of a universal reputation system based on blockchain with hierarchy of Maple Roots. Giving an opportunity to the users to rate their experiences, problems and broadcast it to the people nearby as well as geostamp & geo-fencing it forever. Other users, organisations can help resolve the issue or bad experience or we will be able to spread awareness to help other people from similar experience. Decentralising the power to the people by motivating users to help each other and spread awareness and earn Enlte coins in exchange of that.



Centralised Organisation



Decentralised Organisation

2. Social Internet the 2nd dimension of internet.

The Internet is diversifying with time. According to a report, Internet hosted more than 1.5 billion websites in the year of 2017. The Internet is the largest network platform. Finding any information on the internet is very easy but finding accurate and trustworthy information is very difficult. Information can be easily manipulated and circulated. The internet still operates in 1 dimension i.e.(keywords) for any particular search. You have to write a proper keyword for the particular search you want which is not possible for every section of people around the world.

Therefore, to make life and the digital world easier Enlte propose a social internet with small-world network with 3 dimensions:

1. Keywords
2. Location based network
3. Social connections

A socionet is a term proposed for an internet of computers with social characteristics. Socio-net is a network of computers with characteristics of location based small world network and social communication. It is fast, better and has amazing networking capabilities. Social internet is

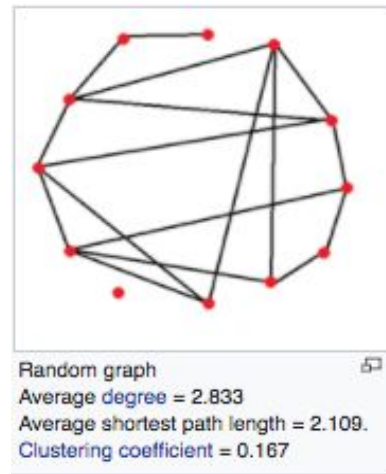
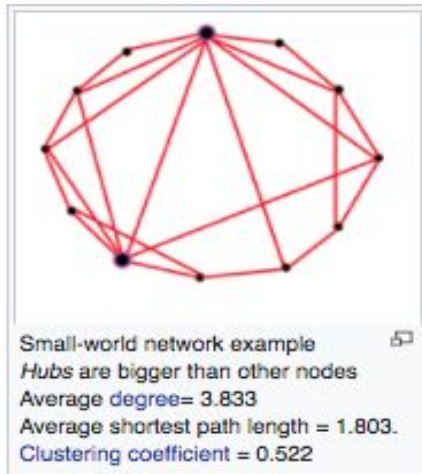
the future. Social internet helps in better trust management in the network and for internet of things.

A platform with networking capabilities beyond the first dimension can change how the world operates. The location-based small world network & socionet can connect us physically with each other.

3. Adjustable Location Based Small World Network

Solving problem of random networks. We as a physical beings have no knowledge and awareness of what is going around us. We are not aware of our neighbourhood but want to know what is going across the world. A idiom “nearer the church, farther from god” proves our current state in our social life. Technology should bring us together not far away from each other.

A human brain is the best example of a small world network. We propose an adjustable small world network with some super networking capabilities. We use a modified version of Watts and Strogatz's 1998 model with each node connected to a z number of its closest nodes (Fig). There exists a probability p that each edge in a graph will be rewired, with one edge being randomly selected and reconnected to a new node. We propose a modified version of SWN based on location. A Location based SWN increase the quality, searches and better results. The Adjustable Location-based SWN can help us change the world from what it is today to what it can be tomorrow.

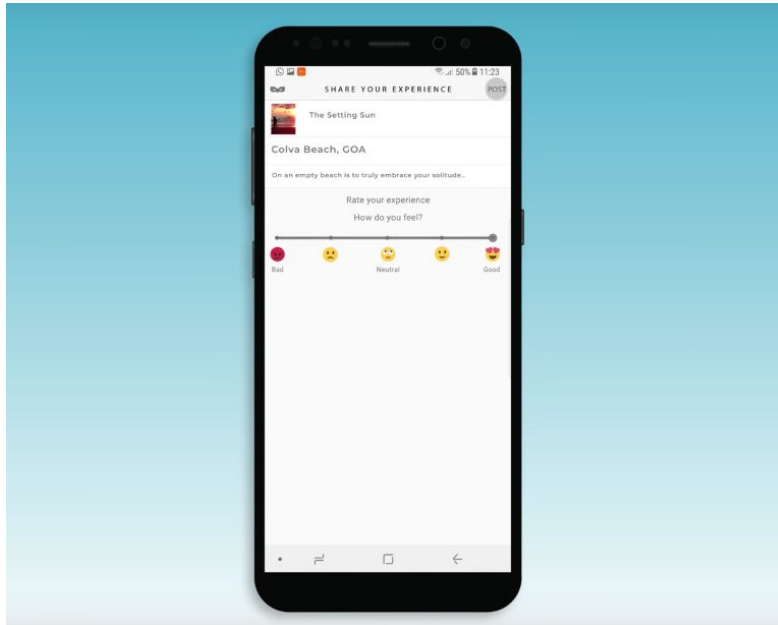


Using Location based social engine as a small world network. A typical search on a location based small world network would be x times faster, x times accurate and related to the physical environment around you. A Location Based Small world network brings you closer to the physical world and opens a new dimension of connecting physical world to internet accurately and using the properties of this type of network to provide more accurate search results , better search quality and help user to connect with what it is about.

4. Sharing & Rating an experience

Reviews and Ratings have been widely accepted and in 2017 almost 91% of the people would refer to online reviews before buying or considering anything. We use the power of ratings to measure each and every experience. As a decentralised governance system we need to know how and what each node or user of network feel and experience. So that we can capture that and help other nodes or users to learn from it and keep the record to improve and learn from it.

As in app & figure below:

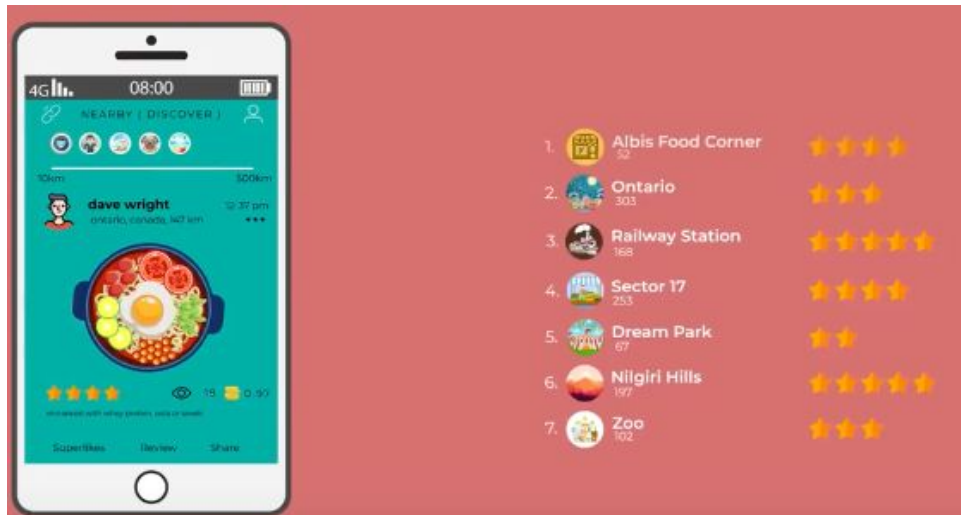


Posting a picture (sharing an experience on app)

We define each and every rating as an experience. Each experience is posted on the blockchain by digitally signing the hash of the previous experience along with the timestamp of the last experience posted on the platform. Experiences are grouped and categorised on location, text, date, time and several other metrics. Each and every experience is not only posted on the location but it affect the overall hash and overall rating of all the higher hierarchy. Such as a user rating a shopping store in Town A will affect City -> State -> Country -> Continent -> Today's date -> Exact Time hashes. One rating will affect the rating of everything associated with it by giving power to each and every rating and experience.

SHA hashes of all of blocks will be signed with the previous block along with timestamp. All hashes will be signed with the maples root of the highest hierarchy i.e exact time in this block.

We create automatic hashes of State, Country, Continent , Time, Date and are available to review for each and every user.



We give power to the user to not only see and record what is happening around us but also take action against what is happening around you by spreading awareness and alerting the users around the location to be aware about the happening. As well as motivating people to help each other.

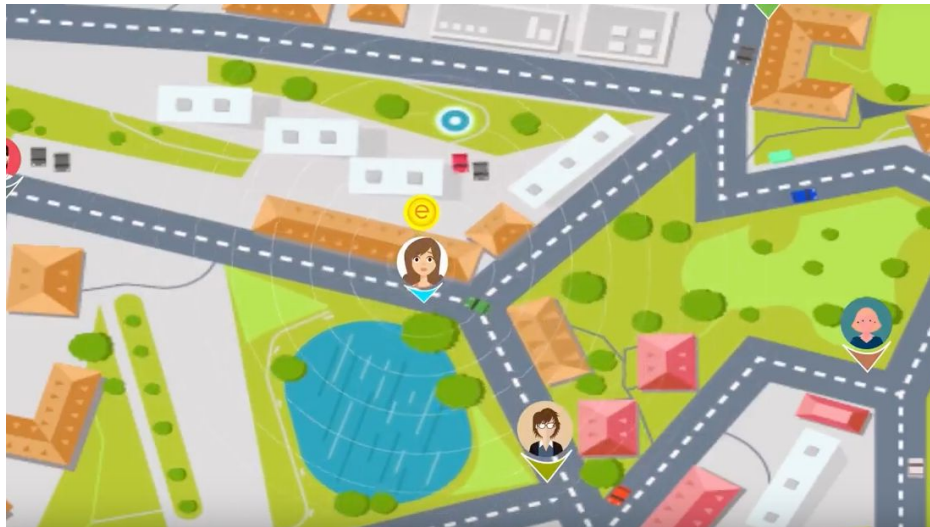
We must be part of the change we are expecting in the world and it has to start somewhere.

5. Nearby Notifications

Built in Alert System, a real time notification system setup to share your negative star rating to the people around you. It gives real time push notifications to the users around the location with call to action to spread awareness as well as motivate them to help each others.

Push Notifications has clearly taken over the mobile industry. 95% of the people would immediately check a push notification within 1 minute. Enlte takes notification and rating in coordination and companionship as each rating has their own effects on every notification. The negative or 1 star rating is an automatic push notification to nearby world so that we can help each other and can call for action. As in the figure, if a female user rates an experience and posts it on the Enlte platform, the post would be broadcasted to all the nearby devices using push notifications & BLE beacons. Pushing notifications to all the people nearby

- a. To spread awareness of the nearby event.
- b. Ask for help from nearby users.
- c. To help others learn from their experiences



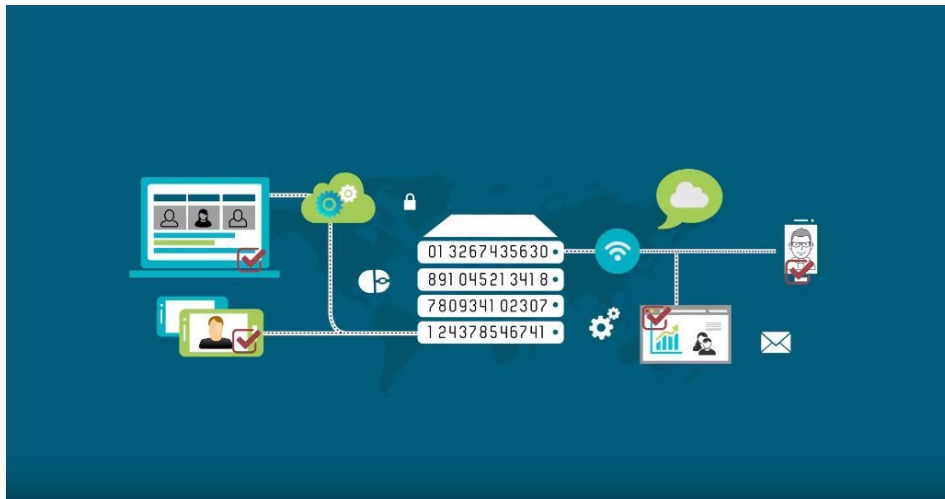
6. Decentralised Blockchain based system

Decentralization means the network operates on a user-to-user (or peer-to-peer) basis. And blockchain is a shared immutable ledger for recording the history of transactions. In enlte, decentralized blockchain

based database to verify each and every rating, post & transaction on the platform. A blockchain of hashes of the data is created and then

broadcasted to all nodes for verification. So, there is no change of error in recorded data/transaction in blockchain technology. In other words, we can say “a decentralized blockchain helps to guarantee the validity of a

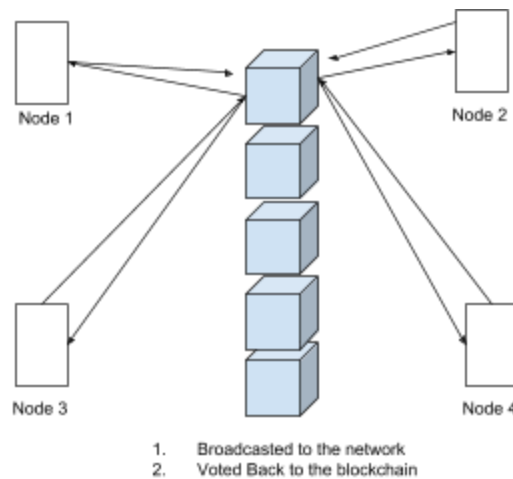
transaction by recording it not only on a main server, but connected distributed nodes, all of which are connected through a secure validation mechanism.” Here nodes are said to mining the coin & together they create a powerful second-level network. Below are the main steps in blockchain technology:



- 1) New data hash is broadcast to all nodes.
- 2) Each node collects new transactions into a block.
- 3) Each node works on validating the block.
- 4) When a node validates, it broadcasts the block to all nodes.
- 5) Nodes accept the block only if all transactions in it are valid and not already spent.
- 7) Nodes express their acceptance of the block by working on creating the next block in the chain, using the hash of the accepted block as the previous hash.

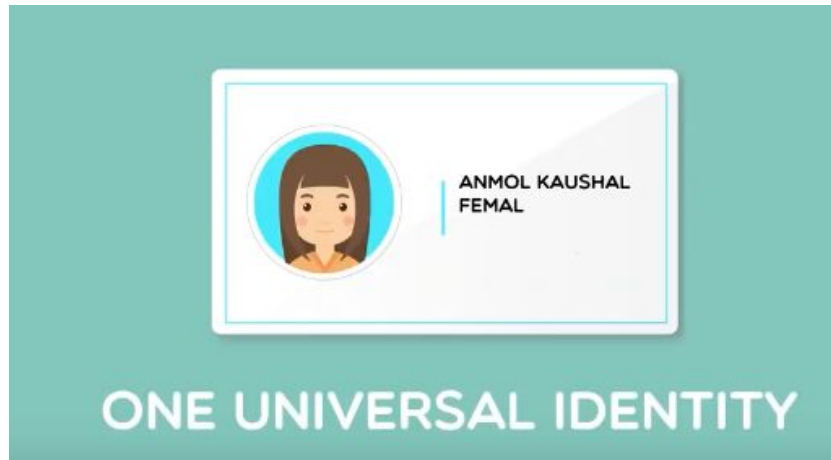
8) Voting is done to make sure each and every node has same information with them.

9) Faulty or error votes are handled with keeping a database of not matched votes with updating reputation system of the nodes.



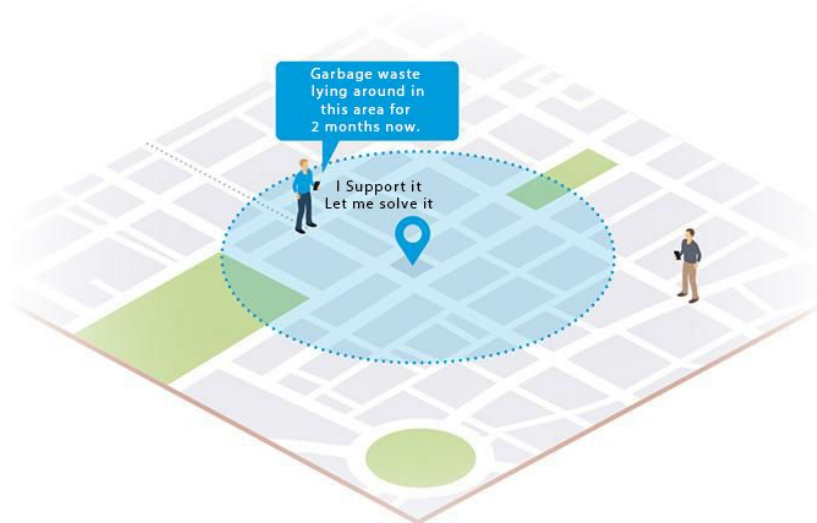
7. One Universal Identity & Power of Being Anonymous.

We propose an one universal identity for each and every user to have a different identification for all users. Also on the other hand giving power of posting or rating or Reviewing anonymously. You can do anything on the app by being anonymous. This gives each and every user a power to share their experiences and reviews without being judged. An anonymous voice could help us achieve anything we want and can be a very easy way to communicate without using their own personal identity. There are few circumstances where you want to report a problem but never do that just because you fear that people might judge or try to threaten you. This problem is entirely resolved with anonymous where the identity of a person remains hidden and he or she can easily inform people about the incidents or accidents which took place near them. This tool can be highly empowering for women safety and security as they can easily reach out for help and keep their identities anonymous.



Each and every user will have one identity approved with KYC (while withdrawing enlte coins) backed with universal reputation system. Along with it each user will have power to go anonymous anytime.

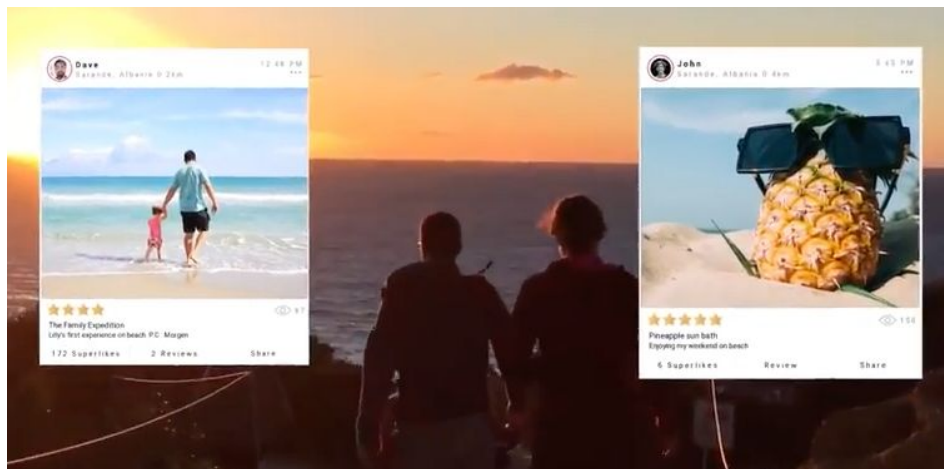
8. Geo-fencing and Geo-tagging



All experiences are geotagged for lifetime to a specific geolocation adding geographical identification metadata to various media such as pictures, text or video. The geo-tagged data consists of latitude and

longitude coordinates, though they can also include altitude, bearing, distance, accuracy data, and place names, and perhaps a time stamp all in the blockchain. Geo-fencing is the future and a virtual parameter is set in the real geographical world to receive notifications when entering a geofence. All negative experiences comes with a geofencing of 24 hours to 72 hours and sometimes forever. A user when posting an experience can set the geo-fencing expiration time.

9. Nearby Feeds and AR



Augmented Reality will for sure revolutionise how we feel, see data and information. Enlte is a AR based application which will help you see nearby posts and places with the help of AR. Nearby Feeds help you get nearby positive feeds based upon the distance. With nearby feeds you will be able to see any posts or experience upto 10 meter. Imagine walking down a mall with the application and checking out live ratings and experiences of people in the mall and their ratings and real time posts.

10. Universal Reputation System

The biggest problem of a blockchain based system is to manage a reputation system of each and every node or user and manage it accordingly. Other than that we still lack a universal reputation system based on social identities. As blockchain is being used by smart contracts and will be used by various applications and contracts, a universal reputation score of all the users and their dependency on that score to perform any social activity is necessary.

Enlte comes with a built in reputation system which manages and resolve content scripting or spam content problem. A user or node has two reputation system, one computer generated and one user generated. Computer generated reputation system involves in getting the reputation of the system which include node response time, node contribution to the verification or blockchain coin minting process.

User reputation has a basic pre-initiated 500 pt reputation. User activity, posts and other users acceptance and validating the user increases or decreases the reputation. Excessive blocks or ignoring messages or report abuse can get someone profile temporary suspend for any action generated activities.

This will be a AI based Internal Reputation System which will have capabilities of self learning.

11. User Generated Content

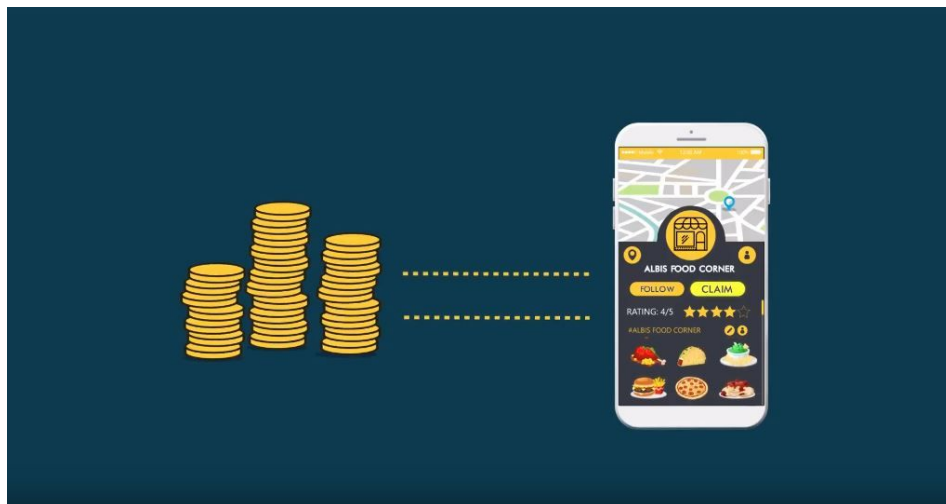
Enlte focuses on giving power to the people by making this app and protocol to be a user generated content app where all the content, pages, business page, location, hotel, business everything will have the user generated content in it. Even after claiming the page and getting confirmation, the page owner will still not be able to post their own content other than just handling the content user post about your page.

This platform will always be ads free network. No ads or advising material will be posted on the platform. As the owner of the page will never be able to post content on it.

12. Rewards

Enlte (enlighten) rewards users to bring awareness to the world. Social Awareness tokens are distributed to the users who post an experience and get super likes or support on their pictures. Users on this platform are based on positive experiences called superlike and represented as stars. However users on this platform with negative experiences and most number of supports are represented as Heros. The more awareness you spread on the platform the more coins you earn.

Helping someone helps you earn more coins. To make this platform motivating towards people who would contribute to the society by helping people would earn enlte coins.



Enlte Coin Rewards Users as below

A. Spreading Awareness

Superlike or Support or Like

Value of a superlike & like - 500 / The max number of superlike ever.

Value of a support = 1000 / Max number of Support Ever.

B. Resolving Complaints

If you help resolve a complaint or negative rating, you are rewarded enlte coins to help other users.

All negative complaints have nearby broadcasting.

Users solving the complaint in

0-120 seconds - 75% of total coins earned on the post

120-300 seconds - 50% of total coins earned on the post

300 seconds - 6 hours - 33% of total coins earned on the post

6 hours - 24 hours - 20% of total coins

24 hours + - 15% of total coins earned.

C. E-Validating the transaction

Your mobile application is always mining

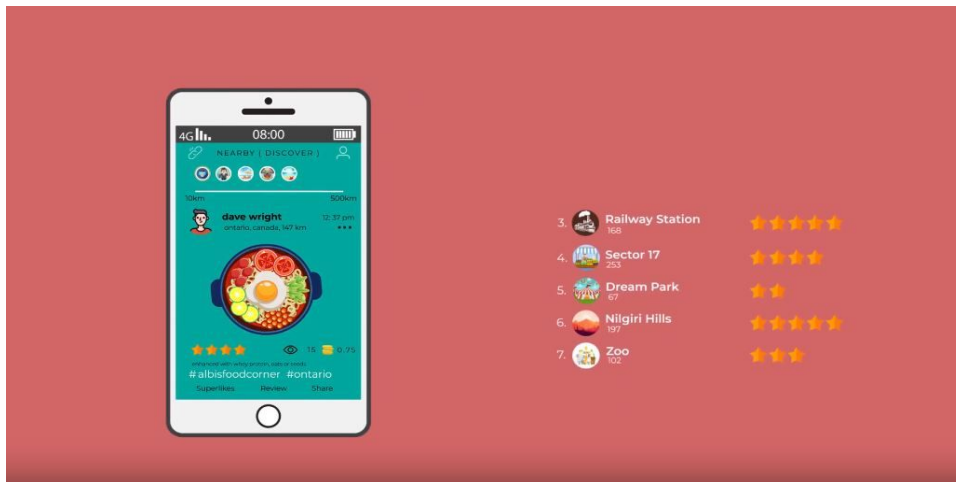
Enlte Protocol process each and every transaction via blockchain for public ledger, decentralisation, mining and open source platform to make it better and enhanced in future.

13. Pages

Each and every post in the app is tagged with geo-stamp information, hashtags and other information. Each post creates multiple pages, or posts on different pages automatically. With every experience you share on the platform, you create multiple pages on the platform. These pages are interdependent on each

other as explained in Pt 3. Millions of pages would be created and will be categorised in Continents ,Countries, States, Cities ,Businesses, places, societies and much more.

These pages could later on be claimed by the businesses, communities, government and they could handle the conversation with the user.



14. Business Communication

Business pages will have reviews, positive and negative. Businesses will have an opportunity to claim the pages and turn the conversation around.

The business pages can be claimed by the business owners , organisation owners, communities, government to

- A. Respond to reviews (good or bad)
- B. Respond to messages and real time communication.
- C. Provide great customer experience to customer.

A customer problem resolved by the business gives them 10x more business and referral from the same client because now they trust the business. Resolving complaints and issues and offering the customers better solution could be a further opportunity to gain trust and more business from the customer.



15. The three buttons

Enlte will have business pages referring to a tag, business or group. Each product on a business page will have three buttons.

- A. Bought it, used it
- B. Interested In
- C. Wishlist

While reviewing a product, user can select one of the three buttons above. This feature will help Enlte and business to know who are their customers, potential customers and dreamers. An event can therefore be targeted to the customers, interested in and people who wish for it. In 2017 almost \$250 Billion were spent on ads and 50% were spent on people who will never buy or use their services. This will help businesses to target specific users to get maximum returns.

16. Built-in Exchange

Businesses, products, organisations will receive ratings from different users. And their ratings will be broadcasted to all the people nearby and will geostamp the location. Anyone around the location will get a notification about the negative review. Businesses however have an option to claim the page. Businesses can only claim a page by exchanging fiat currencies with the enlte

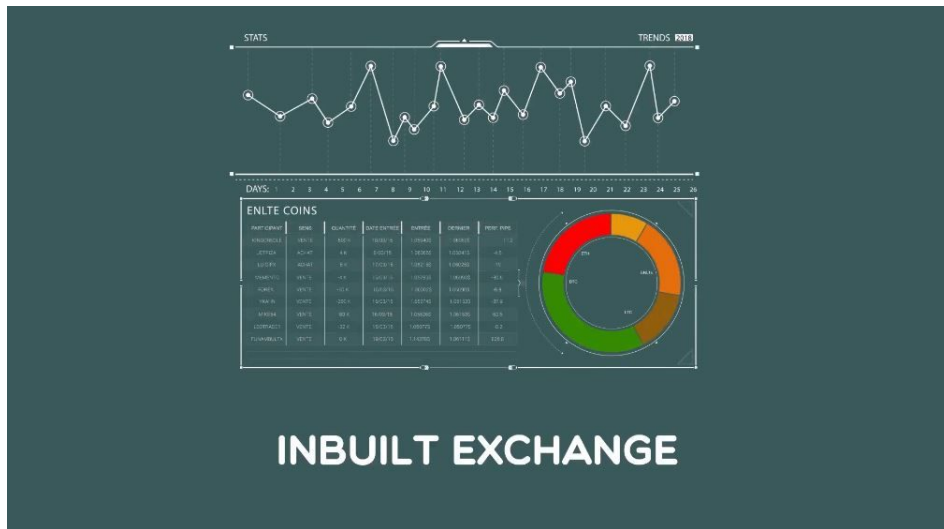
coin. Businesses will have to exchange and buy the amount of total coins earned by users from a page. By claiming a page business can respond to the reviews, report fake reviews and can be available to message the users.

Total Superlikes on the page

+ Total supports on the page

+ Total accepted reviews at the page = Total coins earned by users from a page (Geotag)

We are giving businesses a power to solve their customer problems and give them a greater and better user experience. As by 2018, user experience is the only key to a good business and we aim to make it better.



INBUILT EXCHANGE

17. Discounts & compensation or refunds

Users can review a product on a business page by choosing a button and leaving a good/bad comment regarding the product publically or by sending business a private message. Businesses can respond to user’s messages and reviews with a private and public conversation. A business can solve the negative responds by taking initiative regarding the complaint and offering the best available option to the customer and resolving the complaints and reviews

regarding the product. Reviews might be related to money problems like refunds or extra charge. Businesses will be able to give discounts and refunds or any money related exchange problem through Enlte coins which will make Enlte coins acceptable in millions of shops, stores and businesses in near future.

18. Conclusion

Enlte (pronounced as en-light) is revolutionary platform where one can post his/her experiences, rate and review it and broadcast in the nearby areas. A user can notify and get notified if something happens around him or her. The application also has the feature of asking questions and making confessions about happenings in their nearby areas. While enabling users to also post as Anonymous where they feel any threat. Whether it is a vendor misbehaving or a person helping someone on the road, Enlte has the power to broadcast incidents as well as positive and negative experiences near you. In Enlte we sketched a mechanism for low latency file retrieval that benefits from the particularities of the scientific collaboration environments and a small-world topology. While we provided a solution for building topology protocols flexible enough to resemble the dynamics and patterns of social interactions.

Hence, we can say that Enlte will enable us to create a small world where we are strongly connected to each other and keep on forming various small worlds as we move ahead and make this entire world our family.

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