

ChronoShare : a Time Sharing P2P Platform for Item Delivery

Description

ChronoShare is a P2P platform design for make the most out of our client's time when they leave home. The basic idea of the project is when a client - Tim is going out to get some food or groceries. He might only need one or two items. However, another client - Ashley who is living close to Tim also need an item from the location that is is going to. Then, Tim can pick up the item and deliver to Ashley. This method of P2P platform not only save Ashley's time, it also allows Tim to utilize his time better since he will earn some money or special offer after the delivery. ChronoShare will also allows the peers live in the same area to meet each other, thus, allowing a sense of community. ChronoShare is an example of a sharing economy paradigm, a socio-economic system built around sharing of peer's time.

How it Works

ChronoShare is an online P2P platform is a P2P delivering system for users who lives in a close vicinity to each other. ChronoShare have two main users: one is R, the Receiver, who is using the platform to order things to be delivered to his/her specified location. Another one is the C, which stands for the Courier, who is responsible for delivering the item to the Receiver. The deliver process happens when a Receiver orders in our website which have a list of different stores with their merchandises. Then, this order along with the deliver's address and the store's address gets recorded in our server. If a Courier who is either currently in that store or planning to go to that store can set his pick up location and his destination address in our server. Then, our server will select the best delivering option for this Courier and assign this transaction to the Courier and notify the Receiver. After the Courier has arrived at Receiver's location, the item is delivered. Then, the Receiver will pay for the item and leave ratings about the Courier on our page base on the time Courier took, the quality of the item and other criterias. The platform enables peers to share their commute time with each other and bring the community close to each other.

Challenges

One of the challenges we could face is: how to make the people who lives in an isolated area with very few neighbors utilize our platform. With not many people in the area, there will be less likely for a transaction to happen, thus, limit our company's growth in such areas. To overcome such challenge, we can hire dedicated Courier to deliver item for the peers in the isolated community. Another challenge we could face is: charging the delivery fee for a single item that is really cheap. For instance, when a Receiver wants an item that only cost 1 dollar, the Courier will not likely get a big delivery fee. To fix such challenge, we can bundle the cheap item together to make sure all item on our page exceed 10 dollars to make sure the Courier will be able to earn a substantial amount of money.

Your Project

User Authentication: In order to use our services, the clients are required to sign up with a valid official ID and a credit card. The clients will obtain a username and a password.

User Profiling: User's profile is saved in the database inside of the host. None should have access to those data except the users themselves. Profiles will be identified by both the user ID registered by the user and an ID given by the database, and all personal info of the user is saved under it. Information should include, but not restricted to, the user's ID, password, profile picture(set to default), name, address etc.

User Interactions: A user in our platform can either be a courier or a receiver. As a receiver he can order items in our website and also pay the corresponding delivery fee. As a courier he can send his pick up location to the server and then server will assign the best match result to the courier.

Implicit Social Networking: By using our platform, each user within a community will be more likely to meet each other. In our platform, two people with more than 5 transactions will be automatically considered "Friends".

Reputation System: Rating and commenting system is simple and bidirectional. Clients(both Receiver and Courier) will rate and comment after their transactions

have been completed. Receivers rate the Couriers according to their order delivery quality(delivery speed and item quality) and serving attitude. Couriers also get a chance to rate the Receivers according to the interactive experience(wait time in front of the door etc.). Most importantly, these ratings will be used to calculate the reputation for a user, and this reputation is explicit to all other users. This system will improve the overall user experience of our platform.

Administrative View: An administrative view of the platform will be supported by **ChronoShare**. From a backstage, the administrators can see statistical information, such as the most popular item based on average deliver, client's rating by others. Furthermore, some basic manage methods are also supported by this backstage, such as client's management.