# Introduction

Craigslist is a classified advertisement website akin to a newspaper’s classified ads section. Craigslist is searchable by categories that include location search, job search, vehicle search, and many more. Part of the allure of Craigslist is that it’s convenient for local communities worldwide. The website also offers a glimpse into other local communities for users who may be looking to relocate.

While Craigslist offers many ideal features for users, there are several problems that consistently plague users. Scams occur quite regularly in association with the website. The real estate industry, purchasing vehicles, the sale of fake or illegal tickets to events, and bogus job placements are among the highest for fraud.

To address the problems Craigslist, and other websites like it, it is necessary to adopt blockchain technology for transaction security, implementation of wallets for adding and sending currency, and a rating system structure.

# Minimum Requirements

In this hackathon, we want you to write a Smart Contract (for Ethereum) or Chaincode (for Hyperledger Fabric) which should cover following requirements:

## Asset Creation

A person should be able to post an item that he possesses for selling. At the time of posting the asset, he may either set a fixed price or an open bidding. For the case of bidding, there should be a minimum price and the advertisement for the asset must specify until what time the bidding is open.

## Bidding

Other users will place bid on the asset by executing a function. Owner should be able to close the bid. Once he closes the bid. The highest bidder should be selected as the buyer of the product.

## Transfer of Ownership

A transaction must happen from the buyer’s account to the owner’s account, and the ownership of the item should be transferred.

## Asset Status

The status of asset must be changed to “sold” once the transaction is done. Other statuses should be “for sale”, “for bidding”, “off-market”.

## Seller Reviews and Rating

After buying a product from a seller, user should be able to give a review about the seller and rating. The rating about the seller should be visible along with the product advertisement.

# Something More

All the requirement gives you a basic over view of the implementation. Participants are free to implement this is any way. You are supposed to write a brief description of your approach to problem statement and submit in a document by email to [teamblockchain49@gmail.com](mailto:teamblockchain49@gmail.com) with your name. Judges will be providing extra grade based on approach to problem. Assets and transaction need to be well defined.

# Development Environment

Ethereum developers may use the online Remix IDE (<https://remix.ethereum.org>).

Hyperledger Composer developer may use Online Playground (<https://composer-playground.mybluemix.net/login>).

Hyperledger Fabric developer will get access to an Amazon EC2 instance where they can use the Devmode or the First Network for deployment and testing.

# Scoring Rubric

|  |  |  |  |
| --- | --- | --- | --- |
|  | Not Satisfactory | Satisfactory | Perfect |
| Asset Creation |  |  |  |
| Bidding |  |  |  |
| Transfer of Ownership |  |  |  |
| Asset Status |  |  |  |
| Seller’s reviews and Ratings |  |  |  |