

## **Bidding application**

A decentralised **bidding application**, where users are allowed to add products with description and pictures, a minimum starting bid, a buy now price and the bidding duration. Other users should be able to browse and bid on products.

### **Functional Requirements**

- The application should use Metamask to execute transactions on the network.
- Each user is allowed to:
  1. Add a product for bidding.
  2. Browse and bid on products.
  3. At the end of bidding, highest bidder wins the auction. Ether should move from winner to an escrow account. Users can bid more than once.
  4. Ether balance > Bid Amount
  5. Winner should be allowed to mark product received, and ether should move from escrow to the owner.
- Each product
  1. Should have a name.
  2. Description
  3. Pictures
  4. Minimum bid
  5. Min bid increment
  6. Buy now price.
  7. Bid start date and time.
  8. Bid end date and time.
  9. Owner
- You need an escrow account to store funds temporarily.
- 

### **Tech Stack**

- **Solidity** (Smart Contract)
- **Ganache** (Local ethereum test blockchain for testing)
- **Truffle** (DApp Framework)
- **Web3.js**
- **Metamask**
- **Ethereum Network**
- **HTML, CSS, JS/Angular/React**