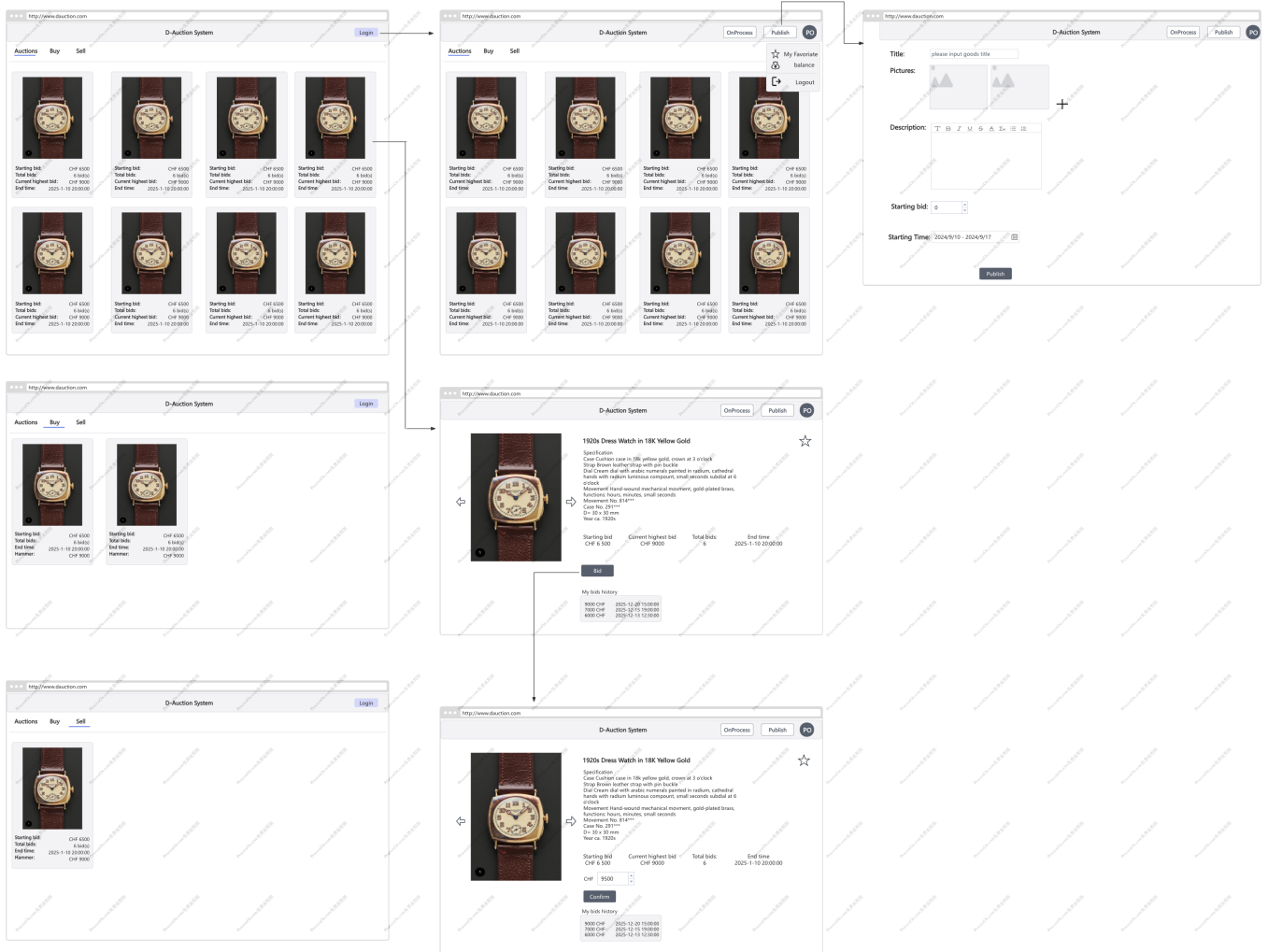


DAPP

APP theme: Auction System

1. User Registration and Identity
2. Auction Creation Include details like:
 - Item description.
 - Starting price.
 - Auction duration (start and end times).
 - Reserve price (optional minimum acceptable price).
3. Bidding
 - Place Bid:
 - Allow users to submit bids higher than the current bid.
 - Track Highest Bid:
 - Ensure the highest bid is updated in real time.
 - Refund Outbid Users:
 - Automatically return funds (or placeholders) to bidders who were outbid.
 - Bid History (Optional):
 - Display a list of all bids for transparency.
4. Auction Lifecycle Management
 - Start Auction:
 - Activate an auction at the specified start time.
 - End Auction:
 - Automatically or manually close the auction when the duration ends.
 - Determine the winner (highest bidder).
 - Handle unsold items if no bids meet the reserve price.
5. Payments and Funds Management
 - ~~Escrow System:~~
 - ~~Lock the highest bid funds during the auction.~~
 - ~~Hold funds until the auction is successfully completed.~~
 - Transfer Funds:
 - Release funds to the seller after the auction ends.
 - Refund Mechanism:
 - Refund all other bidders except the highest one.
 - Fees (Optional):
 - Deduct platform or transaction fees if applicable.

Prototype



project structure

contracts: smart contract code

frontend: frontend code

scripts: smart contract code deploying scripts

hardhat.config.js: framework for compiling, testing and deploying on a local

package.json: package management / project config

others: compiling / running artifacts

Develop progress:

开发规则:

1. 代码不要直接合并到main分支，应该合并到dev
2. 可以从dev分支拉个自己的分支
3. 先pull,本地解决完冲突，自己验证通过，再push到远程