Project : Auction Platform

Objectives

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The AuctionPlatform project is a smart contract written in Solidity, which allows users to create and participate in auctions. The project uses two structures, Auction and Bid, to store information about each auction and its associated bids.

The Auction structure includes an ID, a description of the auction, start and end times, a minimum bid value, the auction owner's address, and a flag indicating whether the auction is open. The Bid structure includes the auction ID, the bid value, the bidder's address, and a flag indicating whether the bid is the winning bid.

The smart contract includes functions to create new auctions, place bids on active auctions, retrieve all bids for a specific auction or for a user, close an auction by marking the winning bid, and retrieve all open or closed auctions.

This project demo provides a simple and secure platform for conducting online auctions, where all participants' bids are publicly visible, and the auction owner can easily manage and close the auction