High/Low Binary Options

High/low binary options are trading contracts that require the trader to predict the movement of an asset during a certain time frame. In this project, you will build a decentralized trading platform where any broker can create a service to offer high/low binary options. The traders in the network can select any broker who is offering the service and bet on the trade.Please read this for more detailed explanation: <http://www.optionsadvice.com/high-low-options/>. Below are detailed requirements of the project.

1. The application should allow an Ethereum account user to register as a broker
2. Any registered broker should stake some amount of Ether
3. The application should allow the broker to create an offering/service
4. The broker should be able to list stocks, set a strike price and expiry time
5. The trader should be able to select a broker, look at their offerings and place a bet on specific offer
6. The trader can withdraw the bet before the time expires by paying a 5% withdrawal fee
7. The trader should be able to increase her bet amount anytime before the expiry time
8. The application shouldn’t allow more bets than what a broker’s staked amount can pay
9. At the end of the expiry time, the application should issue payout for winning brokers at 90% rate
10. If there are no stocks listed by a broker, she should be able to withdraw her stake
11. All the transactions should happen in Ether
12. Enhance the application so the broker can list ERC20 tokens and not just stocks
13. Enhance the application to allow betting tokens along with Ether

Abhinav: Yes, this is correct.