Serum Candidate Task

Overview

Your task is to create a 'friends list' contract on the Solana blockchain and an accompanying typescript library to interact with the contract and fetch on-chain data related to it.

There is no hard time limit to complete this task, though we would prefer for candidates to submit their solutions within 1 month of receiving this document.

Description

The contract should allow users to:

1. Add other users as friends
2. Remove other users as friends
3. Set whether they are 'online' or 'offline'

The typescript library should (minimally) expose functions to:

1. Add another user as a friend
2. Remove another user as a friend
3. Set whether you are online or offline
4. Get a list of all of your friends that are currently online

Submission

Please submit the source code of your contract, the typescript library, and a small text file containing any additional relevant information.

In a follow-up interview, we will ask you questions about why you made the design choices that you did.

Note

Solana development is hard! One of the skills we look for is being able to navigate ambiguous environments where information is sparse.