Testing KYC contract

This doc contains the instructions to test the KYC contract on remix IDE. I have added api details to be called to check the flow.

1. I have added constructor api to set the admin and modifiers to restrict use of admin functionalities. Also “isbankvalid” modifier restricts usage of api only to valid banks.
2. Compile the smart contract named KYC.sol in remix IDE.
3. Deploy the contract and you can see list of functions available.
4. First add banks using api “addbank”. Pass in bank name, addresss and regnumber as parameters. We can add 5 banks for now. use addresses in account section of remix for different banks.
5. View bank details using the api “view\_bankDetails”. This bank address as parameter.
6. Let's start by adding customers. Add customers using api “addCustomer”. We can do this for a few customers from each bank. We can later modify customer using api “modifyCustomer”.
7. Api " modifyCustomer” will also remove the request for this customer.
8. We can check customers using api” viewCustomer”.
9. Start by adding some requests using api “addRequest”. This will add KYC requests to the request list.
10. 3 banks can call api “upvoteCustomer” which will set the kyc status to true.
11. Let banks call api “downvoteCustomer”. To see the kyc status now, call the api “viewCustomer”. We “ll see that the KYC status is still true.
12. Now let's add 3 more banks using “addbank” api and remove onw bank using api “removeBank”.
13. Now we have total 7 valid banks.
14. Now let one bank upvote using api” upvoteCustomer” ans another downvote using “downvoteCustomer”.
15. View the KYC status for this customer using api “viewCustomer”. We”ll notice that KYC status is false despite upvotes > downvotes. This is because downvotes > numbanks/3.
16. Now let 3 banks call api “reportBank” for bank a particular bank. This will set this bank invalid to vote. We can see the flag “ isAllowedToVote “is set false in api” view\_bankDetails”
17. Get number of complaints reported for this bank using “Get\_bank\_complaints”.
18. Try calling api ”addRequest” from this bank and we”ll see error pop up.
19. Add another bank and make it downvote the customer.
20. We'll see that that bank which initiated the KYC request for this customer would get invalidated due to logic that if the customer verified by a bank gets more nunbanks/2 downvotes, then the bank gets invalidated.
21. We can use the api “modifyBankisAllowedToVote” with status as true for this bank which would again set this bank as valid.