PHASE 2 Steps to test the smart contract on remix

1. Deploy the contract through a contract creation transaction , this will set the admin account address to the address that deployed the contract.
2. Make sure that the admin account address is selected in the “Account” box in remix and then add one or more banks to the bank list by calling the “AddBank” method of smart contract while providing bank name, bank address and registration number as values to method .
3. Select one of the bank address in the “Account” box and call the “AddCustomer” method while providing customer name and customer data as values to method to add the customer to customer list.
4. Then call the “AddRequest” method to add a KYC request for customer in KYC request list while providing customer name and customer data as values to method.
5. Select any other bank address in “Account” box of remix, and call the ViewCustomer” method to get the details of a customer while providing the customer name as value to the method.

Using the customer data returned from the “ViewCustomer” method , verify the details provided by the customer.

1. If the documents provided by the customer are correct , call the “UpVoteCustomer” method to upvote a customer by providing the customer name as value to method. In this method based on the number of upvotes/downvotes a customer KYC status will be set to true else to false.
2. Else if the documents provided by the customer are incorrect , call the “DownVoteCustomer” method of downvote a customer . In this method based on the number of upvotes/downvotes a customer KYC status will be set to true else to false.
3. if the bank has some complain against a particular bank, then it can call the “ReportBank” method to report a complaint against a bank providing the bank address as value to the method.
4. if the bank wants to change data of customer , it can call the “ModifyData” method change the data of customer providing customer name and new customer data value to method.
5. the bank can remove a KYC request of a customer from the KYC request list by calling the “RemoveRequest” method while providing the customer name as value to the method.
6. banks can also see the number of complains reported against a particular bank by calling the “GetBankComplaints” method while providing the bank address as value to the method.
7. The bank can fetch details of the banks stored in the banks mapping by calling “banks” method while providing the bank address of the bank whose details you want to get. (This bank address is the key with which the details of this bank is mapped in the form of struct)
8. the bank can fetch details of the customer stored in customers mapping by calling “customers” method while providing the customer name as value to the method. ( This customer name is the key with which the details of the customer is mapped in the mapping table in the form of struct)
9. the bank can also fetch details about a KYC request of a customer in request mapping by calling “request” method while providing customer name as value to the method. (This customer name is the key in request mapping with which the KYC request of this customer is mapped with in the form of struct)
10. the bank can fetch details about a particular bank by calling “ViewBankDetails” method while providing the bank address as value to the method.
11. The bank can get the total number of banks participating in the KYC process by calling the “bankCount” method.
12. The bank can also get the address of admin account by calling the “admin” method of smart contract.
13. Change the account address to the account address of admin in “Account” box and now as an admin you can call the “GetBankComplaints” method while providing the bank address as value to method to know the number of complaints against this bank.
14. Based on your opinion as admin, you can remove the bank from the KYC blockchain using the “RemoveBank” method while providing the bank address as value to the method.
15. Alternatively, the admin can change the status of “isAllowedToVote” in order to prevent the bank from doing KYC or allowing a bank to do a KYC by providing the bank address as value to method “ModifyIsAllowedToVote”