CMPE 483 - Homework III

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InsuranceVO Web Interface

In this homework, the smart contract implemented in homework II is used. The smart contract is deployed in ebloc blockchain service and it is reached by Parity framework. Instead of using node.js or other applications, we decide to use dapp, meaning distributed application.

In Parity, distributed apps are written in React.js and all the helper functions are provided such as getting block number, getting someone's address. When calling a payable function, Parity gives a good UI in order to unlock the account and sends a transaction in a secure way.

In order to use a dapp in Parity you should put your dapp in **~/.local/share/io.parity.ethereum/dapps/** folder in Linux.

In our user interface, there are 9 buttons, each of which has a distinct function. It is grouped in 3 parts, named as generic functions, hospital functions and patient functions.

Generic functions shows the number of patients and number of hospitals.

There are two hospital functions in our system. One of which is for the hospital can check if its contract is expired. The hospital can make offer if it is not in the insurance system by using the input boxes with make offer button.

Lastly, there are five buttons for patients. Patient can get his/her insurance note, a patient can get insurance if s/he is not in the system. If s/he goes to hospital, by giving the hospital address, s/he pays the money to hospital via our insurance system. A patient can see his/her whether his/her insurance is expired or not. In the last button, a patient can see the remaining quota of his/her insurance.