### CmpE 483 Project – 2

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### Deploy:

In this phase of the project, we created a web application for the lottery. Initially we deployed the smart contracts to "Bloxberg" chain. We used "Injected web3" environment. We had 3 contracts:

Lottery.sol = 0xbaf396822D0DF1026f5a083DeF81F92bC8417ead

User.sol = 0x559e3DE36777b88b8b3B042c14e1Dc594C4e5af9

TI.sol = 0x559e3DE36777b88b8b3B042c14e1Dc594C4e5af9

### Application:

After getting addresses of these contracts, we implemented a html-based application. We used a javascript file which contains functions to reach deployed lottery and call the functions in smart contracts.

We implemented all the functions described in the first project. We also tested it with test script. In the end, we have 17 functional buttons in our interface:

Deposit TI = You can give tl to your balance in lottery so that you can buy a ticket

Withdraw TI = You can draw tl from your lottery balance to your wallet.

Buy ticket = You can buy ticket with the hash of random number.

Collect ticket refund = If you did not reveal your ticket, you can take refund to your balance.

Reveal random number = You can reveal your random number with ticket number.

Get last owned ticket = You should give lottery number to get last owned ticket in this lottery.

Get I'th owned ticket = You should give lottery number and ticket order to get ticket number.

Check if ticket won = You can check your ticket number.

Collect ticket prize = You can get your prize with ticket number.

Get total lottery money collected = You can see the amount of sold tickets in lottery.

Get lottery no = You can see the number of current lottery.

Get tl balance = You can get balance in your wallet.

Mint tl = You can give tl to your lottery balance.

Hash random number = You can get a hash of given number.

# Welcome to the Lottery

### Trust your "GUT" feeling

Main	tun	ctio	nai	ITI	es
Danasit	т,				

ivialit failetionalities		
Deposit TL		
100		
Tx confirmed		
Buy Ticket		
0x59c9e5988a0633f1775330ad0c427c18579 d6df4c077786ae7f040c830958815		

d6df4c077786ae7f040c830958815	
Tx sending	

Tx sending

## **Reveal Random Number**

Error occurred

Withdraw TL

Tx confirmed

100

22	/
1	

## Get Last Owned Ticket No

85

Ticket no: 11

Get I'th Owned Ticket No

Status: REFUNDED

85

Status: WINNER

Ticket no: 8

Check If Ticket Won

8

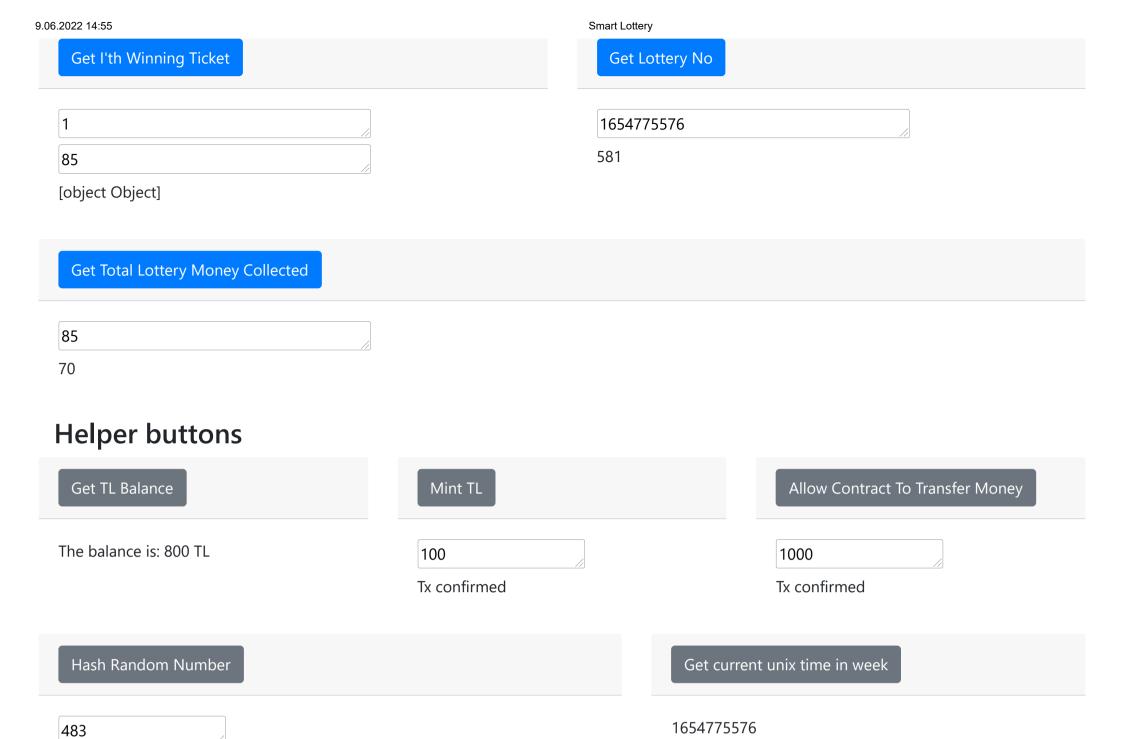
You won 49 TL.

Collect Ticket Prize

8

0 TL

localhost:3300



0x59c9e5988a0633f1775330ad0c427c18579d6df4c077786ae7f040c830958815

localhost:3300 2/2