Smart Contract Audit of REXTRON.io

SC AUDIT Labs has examined REXTRON smart contract and conducted an internal audit on the same.

Detailed Findings

High severity issues
The audit did not find any high severity issues.

Medium severity issues
Timestamp used is not that of the blockchain. It is recommended to use time.block to avoid errors.

```
player.time = now;
```

Simple math is used on 2 integers when SafeMath is implemented in the contract.

```
totalPlayers++;
timeLimit = timeLimit - secPassed;
```

Low severity issues
There is a function called getTimeLimit for the following lines. It was used only once and not implemented on the next.

```
uint256 timeLimit = 1296000;
if(player.tier == 1) timeLimit = 1728000;
if(player.tier == 2) timeLimit = 2592000;
if(player.tier == 3) timeLimit = 4320000;
if(player.tier == 4) timeLimit = 12960000;
```

Sanity Checks:
Functions in smart contracts can be classified as constructor, fallback, external, external_const, public, public_const, internal and private. Writing in a certain order can make the functions of contracts easy to understand and read.

Audit Summary
In the final published contract code
https://tronscan.io/#/contract/TUMatgmcCgc3q6XS4iECadPB3upb1wZwpQ/code

- The contract is designed for small and big investors and for longer terms. Certain conditions in the code allow the contract to maintain equality for both big and small investors for a longer lifespan of the contract.
- Separate reinvest button and referral withdraw button makes it easy for investors to manage their balances.
- The code quality is well maintained and is well written following to the solidity coding standards.
- No backdoors for withdrawing investor deposits were found.
- Deposits made directly to the contract, will only increase the contract balance and sender will not be registered as a depositor.
- No errors were found during the testing period of 48 hours. Calculations are on point.
- The creator only gets 5% of the total contract balance.

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