**Sprint 1 MediCoin Token Documentation**

**Sprint backlog:**

1. Create Medi-Coin Token -

* Code smart contract for Token
* Code smart contract for ICO
* Deploy contracts to Ethereum testnet

**MediCoin Token Use Case:**

Smart Contracts are interacted via the frontend allowing user to purchase token. It is necessary for the user to interact with these contracts for them to have connected their Ethereum wallet first via Metamask.

**User story 1:**

As a user, I want to be able to buy medicoin token with my metamask wallet

**Test case:**

Check response when buy transaction is initiated.

**Test steps:**

* Connect wallet via Metamask prompt
* Click Buy Token
* Accept transcation via metamask prompt

**User story 2:**

As a user, I want to be able to view my Medi-coin wallet.

**Test case:**

Check response after connecting metamask wallet.

**Test Steps:**

* Connect wallet via Metamask prompt

**User story 3:**

As a user I want to be able to view the ICO remaining tokens.

**Test Case:**

Check response after metamask wallet connected.

**Tests steps:**

* Connect metamask wallet via metamask prompt

**Implementation:**

All code on for user stories on github.

**Testing Smart Contracts:**

Once the smart contracts deployed to the network. Truffle generates the contracts in json format which includes information about the contract that allows us to create an instance of them in the front end. Before we deploy these contracts to frontend we want to make sure they are functioning the way we want so that’s why I created tests for the smart contracts and used the truffle testing suite to run these tests to ensure they were working correctly before deploying.

**Sprint Retrospective Review:**

I feel the token deployment could of happened faster during the sprint if I had the environment necessary to do so setup faster but going ahead in further sprints the current correct environment setup I have will enable me to complete further features faster hopefully.