

Project 3 Report

On

Healthcare Application

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BITS F452: BLOCKCHAIN TECHNOLOGY



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Introduction to Project

A blockchain-based Medical Records Management System

Today, doctors & health professionals are limited in the level of care they can provide because due to inability to view your complete, accurate health records. The proposed solution is a blockchain network created by the Health Department, who registers the doctors in this network. The doctors can publish patient's medical records safely on blockchain network.

System Requirements:

1. Operating System: Ubuntu 16.04
2. System RAM: 4GB or Above

Step by step instructions for installing / setting up the application for use

Step 1: Download the repostory using the command:

```
git clone https://github.com/cjstuff/Medic@chain.git
```

Step 2: Install the dependencies using the command:

```
npm Install
```

Step 3: Use the following command to compile smart contract:

```
truffle compile
```

Step 4: Do the following steps to connect to the Ganache Ethereum Workspace chain:

```
open Ganache  
Create New Workspace  
Enter port no: 7545  
Network Id: 5177  
Start the workspace
```

Step 5: Use the following command to deploy the smart contract to the connected chain:

```
truffle migrate
```

Step 6: Run the dapp using the command

```
npm start
```

Execution Flow:

Step 7: Login as admin to register the doctors. Admin has the privilege to register or delist the doctors.

Step 8: Only registered doctors can add health records of patients. The patient registration will be done at this point of time.

Step 9: Only registered patients can access the patient login portal. The registered patients can view their health records history. Also the patients can view the health records w.r.t respective doctors.

Step 10: Only patients has the privilege to grant access to doctor, so that the doctor can view the respective patients health records for a particular period. The patients can revoke the access given to doctor at any point of time.

Step 11: Registered doctors can view patient health records only when access to doctor is given by patient.

Thankyou