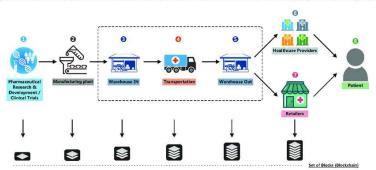
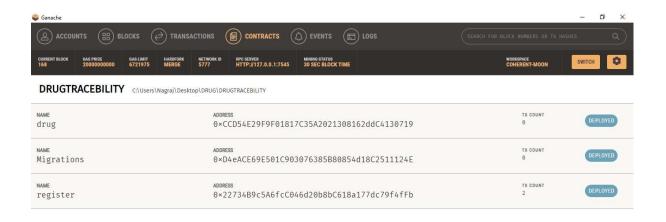


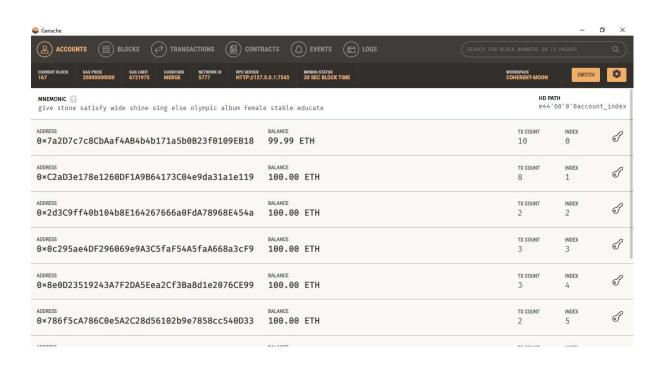


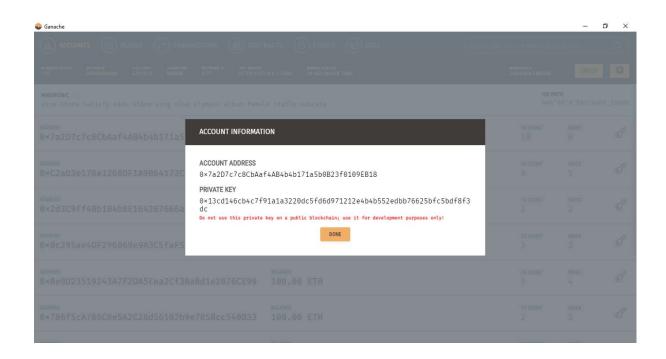
Blockchain Based Approach for Drug Traceability in Healthcare

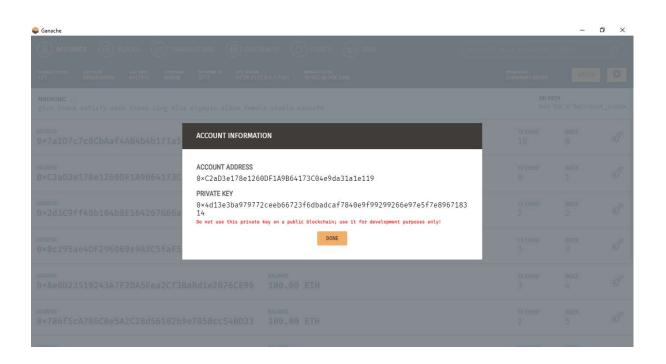
Healthcare Supply Chain is a complex network of several independent entities that include raw material suppliers, manufacturers, distributor, pharmacies, hospitals and patients. Tracking supplies through this network is non-trivial due to several factors including lack of information, centralized control and competing behaviour among stakeholders.

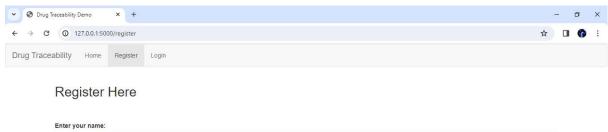




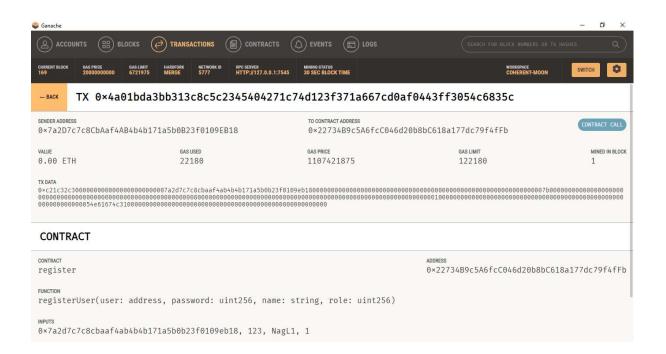


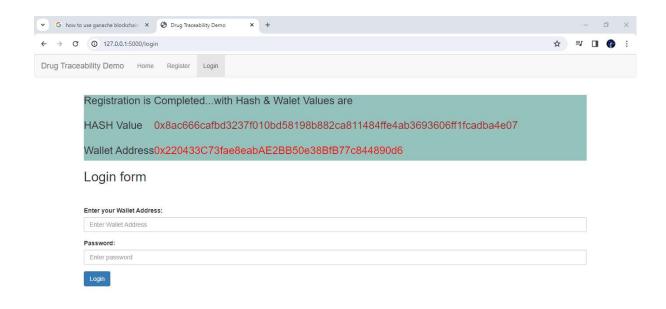


















Lab Dashboard

Sanctioning Drug to the Manufacturer for production





Lab Dashboard

List of Manufacturers who are producing our drugs

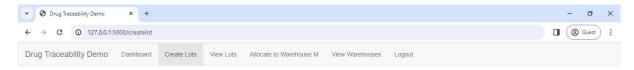
Manufacturer Wallet	Manufacturer Name	Drug Sanctioned
0x7a2D7c7c8CbAaf4AB4b4b171a5b0B23f0109EB18	NagL2	h2n2
0xC2aD3e178e1260DF1A9B64173C04e9da31a1e119	NagM1	H1B12GGH
0xC2aD3e178e1260DF1A9B64173C04e9da31a1e119	NagM1	KL45THG



Manufacturers Dashboard

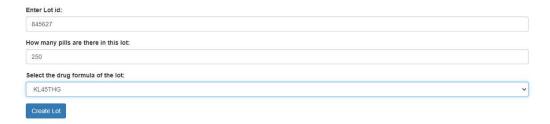
Sanctioned Drugs for production

Drug Formula	Lab Name	Lab Wallet Address
H1B12GGH	NagL2	0x7a2D7c7c8CbAaf4AB4b4b171a5b0B23f0109EB18
KL45THG	NagL2	0x7a2D7c7c8CbAaf4AB4b4b171a5b0B23f0109EB18



Manufacturers Dashboard

Create lots from production lines





Manufacturers Dashboard

Store lots in Warehouse M

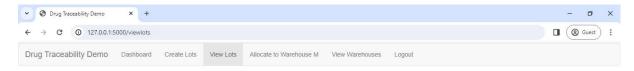




Manufacturers Dashboard

View lots to export

Lot Manufacturer	Lot Manufacturer Address	Lot Id	Lot Pill Count	Lot Lab Formula	Lot Status
NagM1	0xC2aD3e178e1260DF1A9B64173C04e9da31a1e119	11011	50		Allocated
NagM1	0xC2aD3e178e1260DF1A9B64173C04e9da31a1e119	845627	250	KL45THG	Available



Manufacturers Dashboard

View lots to export

Lot Manufacturer	Lot Manufacturer Address	Lot Id	Lot Pill Count	Lot Lab Formula	Lot Status
NagM1	0xC2aD3e178e1260DF1A9B64173C04e9da31a1e119	11011	50		Allocated
NagM1	0xC2aD3e178e1260DF1A9B64173C04e9da31a1e119	845627	250	KL45THG	Available



Warehouse M Dashboard

Schedule a Transport





Warehouse M Dashboard

Schedule a Transport





Warehouse M Dashboard

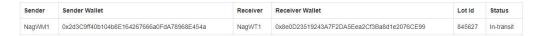
Received Lots for Storage

Manufacturer	Manufacturer Wallet	Lot Id	Lot Formula	Lot Pill Count	Status
NagM1	0xC2aD3e178e1260DF1A9B64173C04e9da31a1e119	11011		50	Available
NagM1	0xC2aD3e178e1260DF1A9B64173C04e9da31a1e119	845627	KL45THG	250	In-Transit



Transporter Dashboard

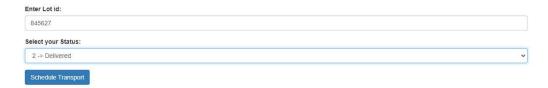
Transportation Schedules





Transporter Dashboard

Update Transport

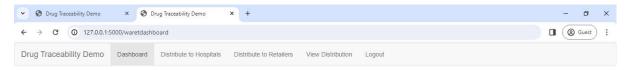




Transporter Dashboard

Transportation Schedules

Sender	Sender Wallet	Receiver	Receiver Wallet	Lot Id	Status
NagWM1	0x2d3C9ff40b104b8E164267666a0FdA78968E454a	NagWT1	0x8e0D23519243A7F2DA5Eea2Cf3Ba8d1e2076CE99	845627	Delivered



Warehouse T Dashboard

Received Lots for Distribution

From Warehouse	Manufactured By	Transported By	Lot Id	Lot Formula	Lot Pill Count	Status
NagWM1	NagM1	NagT1	845627	KL45THG	250	Available



Warehouse T Dashboard

Distribute to Hospitals





Warehouse T Dashboard

Received Lots for Distribution

Distributed to	Medicine Name	Distributed Count
NagH1	KL45THG	50



Warehouse T Dashboard

Distribute to Retailers





Warehouse T Dashboard

Received Lots for Distribution

Distributed to	Medicine Name	Distributed Count
NagR1	KL45THG	50
NagH1	KL45THG	50



Hospitals Dashboard

Received Medicines from Distributor

From Distributor	Manufactured By	Researched By	Medicine Name	Pill Count
NagWT1	NagM1	NagL2	KL45THG	50



Hospitals Dashboard

Give to Patient





Hospitals Dashboard

Patient Records

Patient Name	Patient Wallet	Medicine Name	Pill Count
NagP1	0xf60dF24c681ebee92C2d0faE168C28Cfd788F705	KL45THG	10

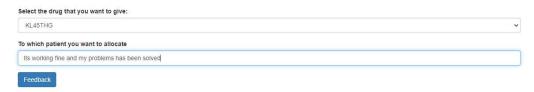


Patients Dashboard

Medical Consultation List

Consultation By	Manufactured By	Researched By	Medicine Name	Pill Count
NagH1	NagM1	NagL2	KL45THG	10







Lab Dashboard

Feedbacks of our Drugs

Drug Name	Feedback of Client	Drug Sanctioned to
h2n2	Nice Job	NagL2
H1B12GGH	Nice Job	NagM1
KL45THG	Nice Job	NagM1
KL45THG	Its working fine and my problems has been solved	NagM1

```
∠ DRUGTRACEBILITY

                                                                                                                                                                                                   刘 File Edit Selection View Go …
l=len(data)
return render_template('rgivetoPatient.html',len1=1,dashboard_data1=data)
                    @app.route('/rgivetoPatientForm',methods=['GET','POST'])
def rgivetoPatientForm():
    drug=request.form['lotlabform']
    patientid=request.form['patientId']
    count=int(request.form['lotpillcount'])
                           count=in(request.form[ lotpiftcount ])
print(drug,patientid,count)
contract,web3=connect_Blockchain_drug(session['walletaddr'])
tx_hash=contract.functions.givetoPatients(session['walletaddr'],patientid,drug,count).transact()
web3.eth.waitForTransactionReceipt(tx_hash)
                            return redirect('/rviewPatients')
                     @app.route('/rviewPatients')
def rviewPatients():
                           contract,web3=connect_Blockchain_register(0)
                           _users,_passwords,_roles,_names=contract.functions.viewUsers().call()
                          contract,web3=connect_Blockchain_drug(session['walletaddr'])
    _givers,_patients,_giverslotlabform,_giverscount=contract.functions.viewPatients().call()
                           data=[]
for i in range(len(_patients)):
    if _givers[i]==session['walletaddr']:
                                         dummy=[]
patientIndex=_users.index(_patients[i])
                                         dummy.append(_names[patients[i])
dummy.append(_patients[i])
dummy.append(_giverslotlabform[i])
dummy.append(_giverscount[i])
8
    ⊗0∆1
                                                                                                                                                 Ln 17, Col 65 (42 selected) Spaces: 4 UTF-8 LF ( Python 3.7.6 64-bit
                    M 0
```