Table: login

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Constraints |
| log\_id | AutoField | Primary Key |
| username | CharField |  |
| password | CharField |  |
| role | CharField |  |

Table: medicine

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Constraints |
| med\_id | AutoField | Primary Key |
| med\_name | CharField |  |
| med\_pic | CharField |  |
| med\_company | CharField |  |
| med\_exp | CharField |  |
| med\_price | CharField |  |
| med\_stock | CharField |  |
| med\_type | CharField |  |
| med\_unit | CharField |  |

Table: Phrama

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Constraints |
| PhramaStaff\_id | AutoField | Primary Key |
| PhramaStaff\_name | CharField |  |
| PhramaStaff\_gender | CharField |  |
| PhramaStaff\_address | CharField |  |
| PhramaStaff\_email | EmailField |  |
| PhramaStaff\_phone | CharField |  |
| PhramaStaff\_qualification | CharField |  |
| PhramaStaff\_designation | CharField |  |
| PhramaStaff\_photo | FileField |  |
| PhramaStaff\_status | CharField | Default: "" |
| Staff\_logid | ForeignKey | References login(log\_id) |

Table: manufactuer

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Constraints |
| manufactuer\_id | AutoField | Primary Key |
| company\_name | CharField |  |
| vaccine\_approval\_status | CharField |  |
| unique\_account | CharField |  |
| access\_to\_smart\_contracts | CharField |  |

Table: distributor

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Constraints |
| wholesaler\_id | AutoField | Primary Key |
| company\_name | CharField |  |
| authorization\_status | CharField |  |
| access\_to\_distribute\_vaccines | CharField |  |

Table: Hospital

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Constraints |
| id | AutoField | Primary Key |
| hospital\_name | CharField |  |
| authorization\_status | CharField |  |
| access\_to\_receive\_and\_administer\_vaccines | CharField |  |

Admin

Manufacturer

Vaccine

Hospital

sets

pushes

takes

Dealer

issues

Manufacture

Issue vaccine

Select dealers & deliver vaccines

Receive vaccine

Transfer vaccine

Manufacture vaccine

Claim role

Claim role

Claim role

Approve role

Register role

Admin

Dealer

Distributor

Blockchain network for Vaccine Distribution

Hospital

Vaccine ownership

Request for registration of manufacturer

Manufacturer enrolment by unique id

Request for Vaccine registration

Proceed if unique id matches

Admin

Approval Authority

Vaccine Registration Management

Manufacturer

Distributor

WholeSellers

Hospital

Pharmacy

Unique code is given to the manufacturer

Admin

Manufacturer

System

Manufacturer

Actor

Vaccine Details

Manufacturer details

Vaccine Status

Admin

Check Unique id

Vaccine Registration

Vaccine

Golang Middileware

API Endpoints

Store Data

Retrive Data

Hyperledger Fabric

{

Key value

[Data]

}

Application

Create and Check for Unique id

Vaccine Information

Registration of Vaccine

Registration of Manufacturer