

## User Manual for Healthcare Record System DApp

### Table of Contents

S.No	Chapter Number	Title
1	1	Introduction
2	2	Prerequisites
3	3	Installation
4	4	Connecting to MetaMask
5	5	User Roles
6	5.1	Patient
7	5.2	Doctor
8	5.3	Admin
9	6	Features
10	6.1	Patient Registration
11	6.2	Doctor Registration
12	6.3	Medical Record Management
13	6.4	Granting and Revoking Access
14	6.5	Viewing Medical Records
15	7	Troubleshooting
16	8	FAQs

## 1. Introduction

Welcome to the Healthcare System DApp, a decentralized application designed to manage healthcare records securely using blockchain technology. This DApp allows patients to manage their medical records, doctors to access patient records (with permission), and administrators to oversee the system.

## 2. Prerequisites

Before using the Healthcare System DApp, ensure you have:

- A web browser (preferably Chrome or Firefox)
- MetaMask installed and set up
- Basic knowledge of how to interact with decentralized applications (DApps)

## 3. Installation

1. Clone the repository:

bash command

```
git clone <repository-url>
```

```
cd MyDapp
```

2. Install dependencies:

bash command

```
npm install
```

3. Start the local development server:

bash command

```
npm run dev
```

## 4. Connecting to MetaMask

1. Open the Healthcare System DApp in your browser.
2. Click on the "Connect MetaMask" button.
3. Approve the connection in the MetaMask popup.

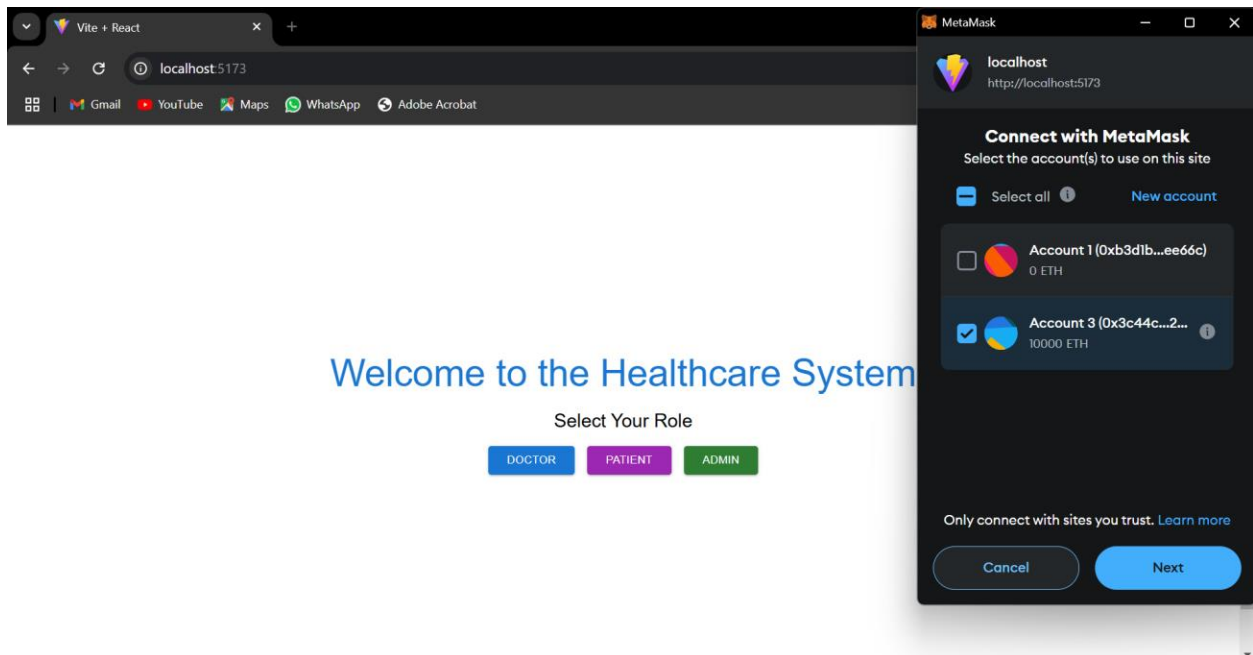


Figure 1: Metamask Login

## 5. User Roles

The DApp has three primary user roles:

### 5.1 Patient

- Patients can register themselves, update their medical records, and grant or revoke access to their records for doctors.

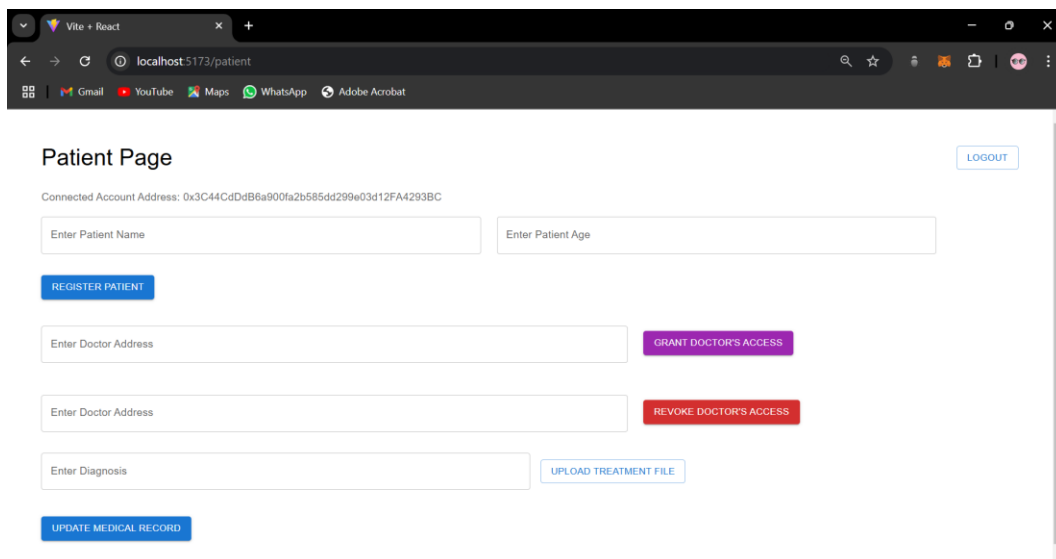


Figure 2: Patient's Portal

## 5.2 Doctor

- Doctors can view medical records of patients who have granted them access.

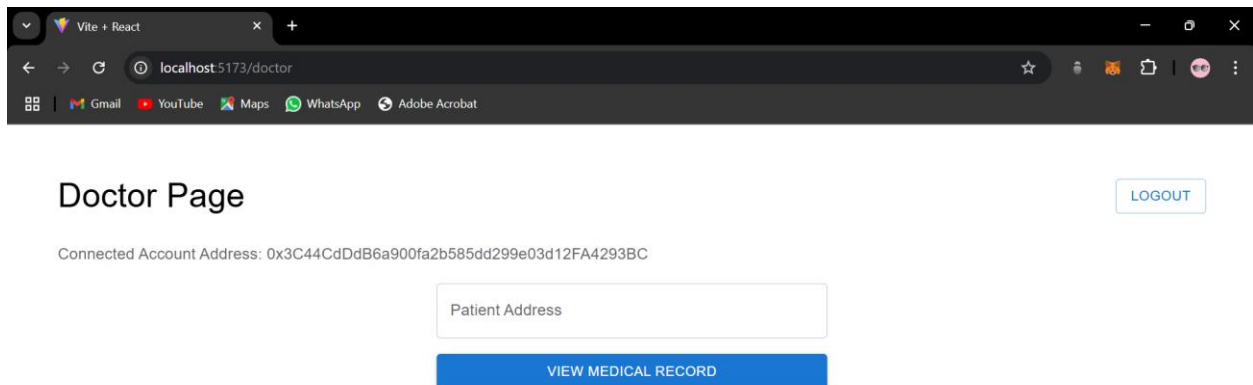


Figure 3: Doctor's Portal

## 5.3 Admin

- The admin can register doctors and manage the overall system.

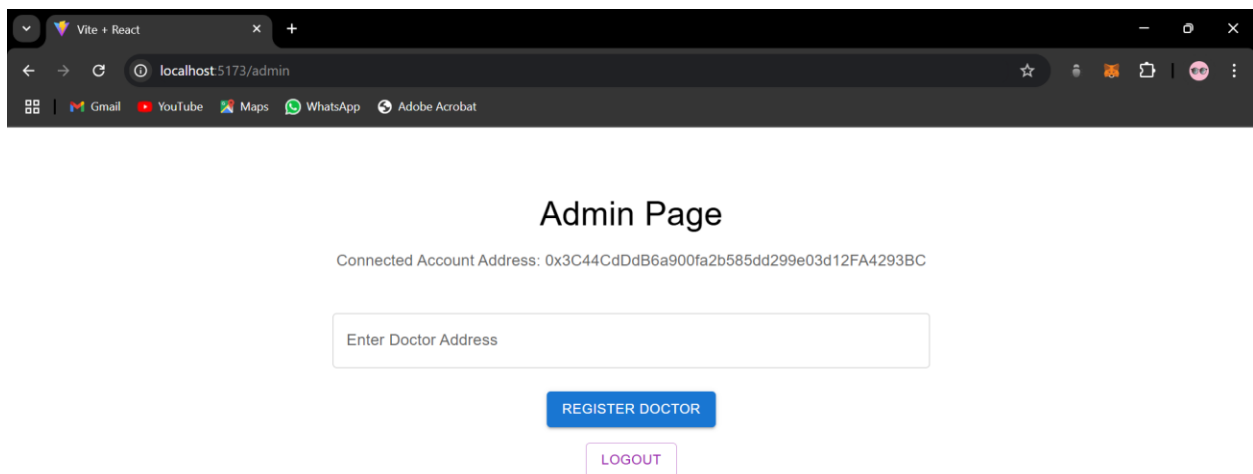


Figure 4: Admin Portal

## 6. Features

### 6.1 Patient Registration

- Patients can register by clicking the "Register as Patient" button. Ensure you are connected to MetaMask.

## 6.2 Doctor Registration

- Admins can register doctors by entering the doctor's Ethereum address and clicking "Register Doctor".

## 6.3 Medical Record Management

- Patients can update their medical records by providing an IPFS hash of the record and clicking "Update Medical Record".

## 6.4 Granting and Revoking Access

- Patients can grant access to their medical records to doctors by entering the doctor's address and clicking "Grant Access".
- Patients can revoke access by entering the doctor's address and clicking "Revoke Access".

## 6.5 Viewing Medical Records

- Doctors can view a patient's medical record by entering the patient's address and clicking "View Medical Record".

## 7. Troubleshooting

- **MetaMask not connecting:** Ensure that you have MetaMask installed and that you are connected to the correct network.
- **Transaction errors:** Check your Ethereum balance and ensure you have enough ETH for gas fees.

## 8. FAQs

- **What is IPFS?**
  - IPFS (InterPlanetary File System) is a protocol and network designed to store and share data in a distributed file system.
- **How secure is my data?**
  - Your medical records are secured on the blockchain and can only be accessed by authorized doctors with your permission.