

User documentation

As prerequisites, you need install or apply all of the following stuff. You can go to [Installations](#) for more details.

1. Install Node.js

As we decided to use web3.js, we are going to use npm to install web3.js, which need Node.js. Here we give you guys three installation guides on *Ubuntu*, *Mac* and *Windows*.

- Install on Ubuntu

Install Node.js

```
sudo apt-get install nodejs
```

Install npm

```
sudo apt-get install npm
```

- Install on Mac

Install Node.js

```
brew install node
```

Install npm

```
brew install npm
```

- Install on Windows

you can find npm and Node.js download instructions from [here](#).

- Check installations

After finish the previous steps, you can check the version of node.js and npm by

```
$ node --version
```

```
v9.8.0
```

```
$ sudo npm --version
```

```
5.6.0
```

2. Install Truffle and web3.js

To install truffle, you need to type the following code in your terminal
`npm install -g truffle`

Then you can clone our code using

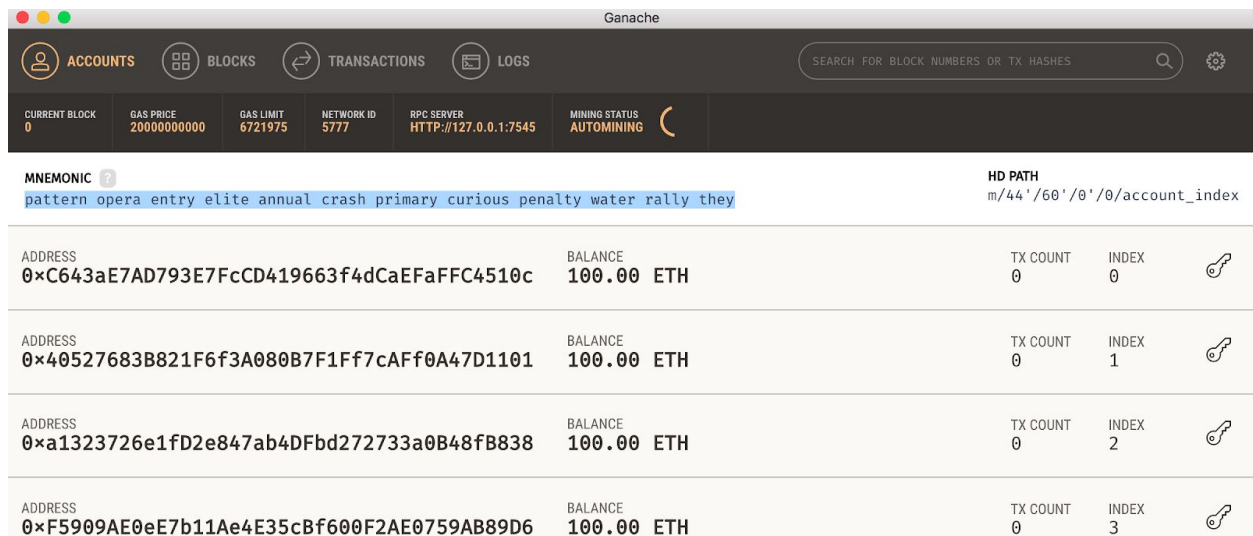
`git clone https://github.com/Snake-Squad/Decentralised-Shopping-Cart.git`

Once you cloned our code, you no not need to install web3.js because we already have it in our repo.

3. Download and Install Ganache

We used Ganache, a personal blockchain for Ethereum development you can use to deploy contracts, develop applications, and run tests. You can use the super link to download it.

Once you launch it, you will see

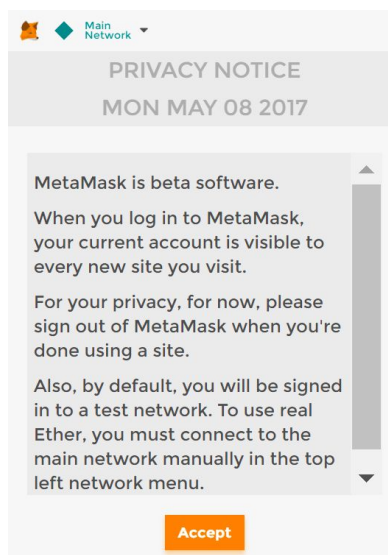


4. Install MetaMask

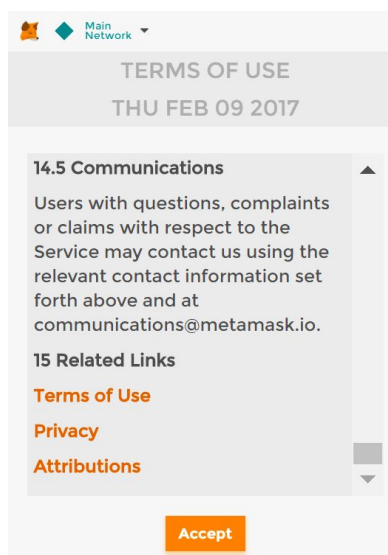
The easiest way to interact with our dapp in a browser is through [MetaMask](#), a browser extension for Chrome.

1. Install MetaMask in your browser.

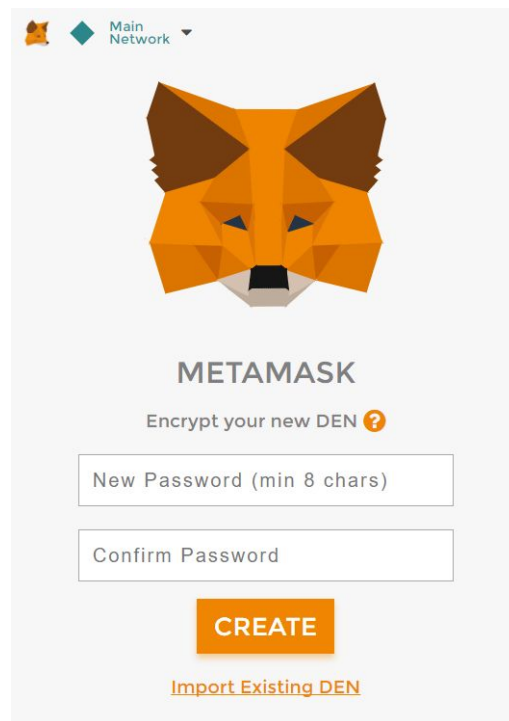
2. Once installed, you'll see the MetaMask fox icon next to your address bar. Click the icon and you'll see this screen; click **Accept** to accept the Privacy Notice.



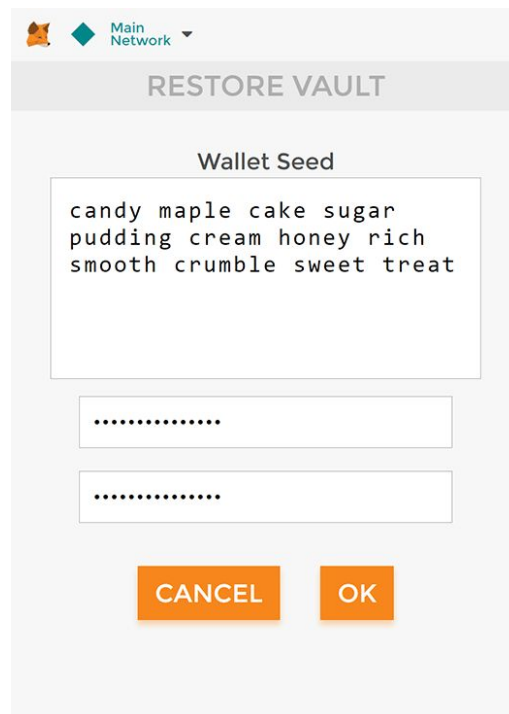
3. Then you'll see the Terms of Use. Read them, scrolling to the bottom, and then click **Accept** there too.



4. Now you'll see the initial MetaMask screen. Click **Import Existing DEN**.

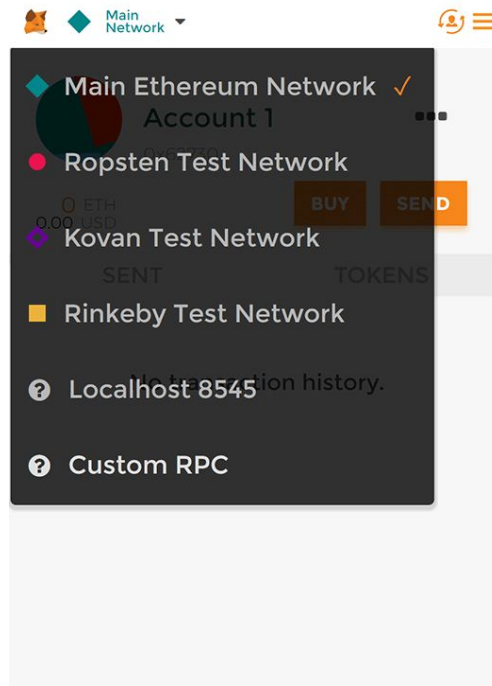


5. In the box marked **Wallet Seed**, enter the mnemonic that is displayed in Ganache.

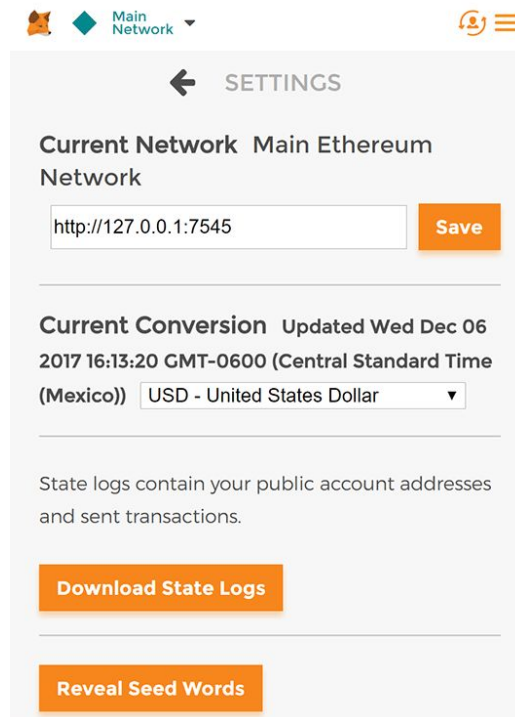


Enter a password below that and click **OK**.

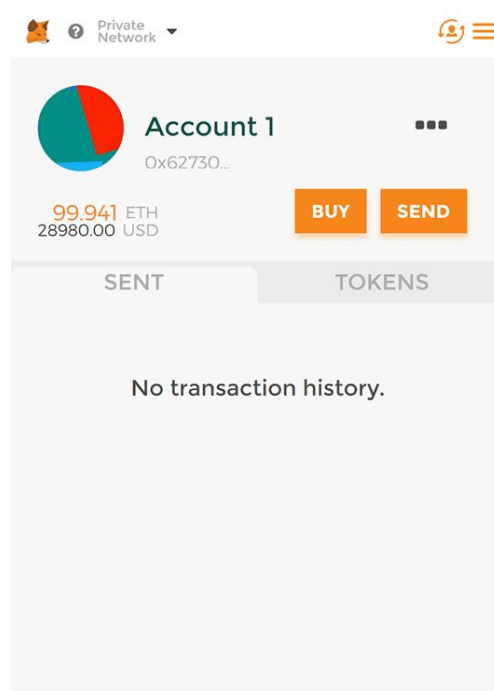
6 Now we need to connect MetaMask to the blockchain created by Ganache. Click the menu that shows "Main Network" and select **Custom RPC**.



7 In the box titled "New RPC URL" enter `http://127.0.0.1:7545` and click **Save**.



8 Click the left-pointing arrow next to "Settings" to close out of the page and return to the Accounts page.



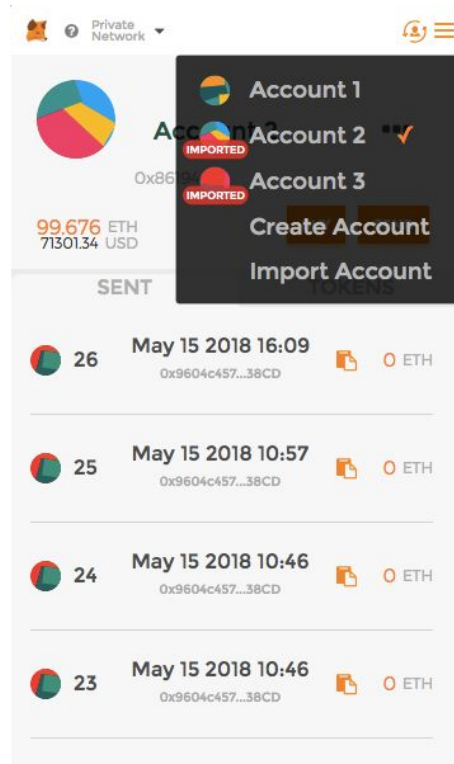
9 To import an account, you need to get the private key of an account in Ganache

ADDRESS	BALANCE	TX COUNT	INDEX	
0x86194845E18cDE5E198F36Ac64741d0C62c786EB	99.68 ETH	27	0	

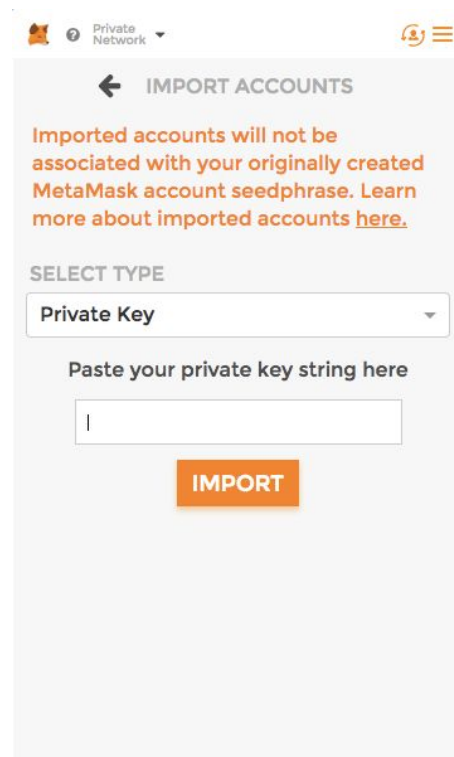
Click on the button that looks like a key and you will get



Copy the Private Key and click  in MetaMask and click on Import Account



Paste the Private key and click Import



5. Apply a Firebase Account

If you are a new user, you can use <https://firebase.google.com/> to apply a new account. However, if you cloned our code, you do not need to apply it.

6. Apply a Filestack Account

If you are a new user, you can use <https://www.filestack.com/> to apply a new account. However, if you cloned our code, you do not need to apply it.

7. Start Using the APP

```
cd to the PetShop folder in your terminal, and type  
npm run dev
```

You can combine with How to Run the Project if you cloned the code.

References

- [pet_shop](#)
- [Developing Ethereum Smart Contracts for Beginners](#)
- [Installation Details](#)
- [Project Contribution](#)

1.1. The useful features of firebase :

- **Real-time database:** Real-time data is the way of the future. Most databases require you to make HTTP calls to get and sync your data. Most databases give you data only when you ask for it. When you connect your app to Firebase, you're not connecting through normal HTTP. You're connecting through a Web Socket. Web Sockets are much, much faster than HTTP.
- **File Storage:** Firebase Storage provides a simple way to save binary files — most often images, but it could be anything — to Google Cloud Storage directly from the client. Firebase Storage has its own system of security rules to protect your GCloud bucket from the masses, while granting detailed write privileges to your authenticated clients.
- **Authentication:** Firebase auth has a built in email/password authentication system. It also supports OAuth2 for Google, Facebook, Twitter and GitHub. We'll focus on email/password authentication for the most part. Firebase's OAuth2 system is well-documented and mostly copy/paste.
- **Hosting:** Firebase includes an easy-to-use hosting service for all of your static files. It serves them from a global CDN with HTTP/2.
- **Full featured App Platform:** The Firebase team has integrated a bunch of new and existing Google products with Firebase. A bunch of these features apply to iOS and Android but not to web.