**Set-up and execution of Ethereum Blockchain Project “Mobiles Purchase Shop”**

**Version: 1.0**

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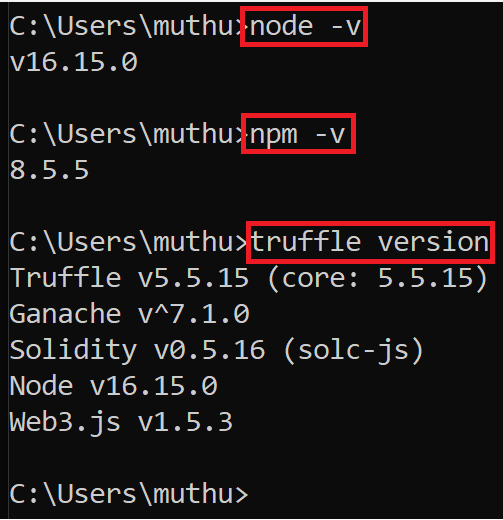
# **Verify the Project’s Pre-requisites:**

# **Check the availability of Nodejs, NPM, and Truffle in your Windows Terminal**

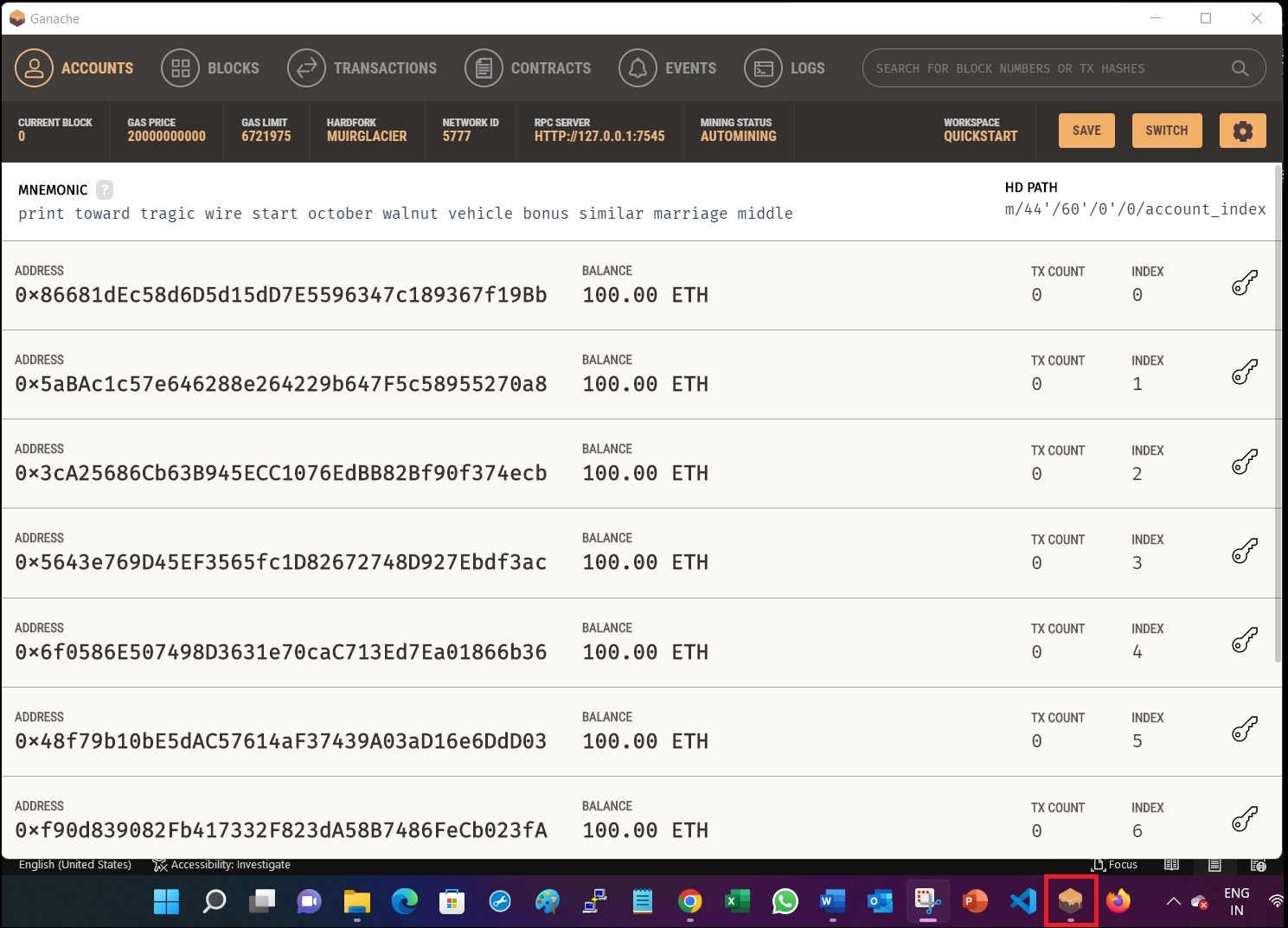
**node -v**

**npm -v**

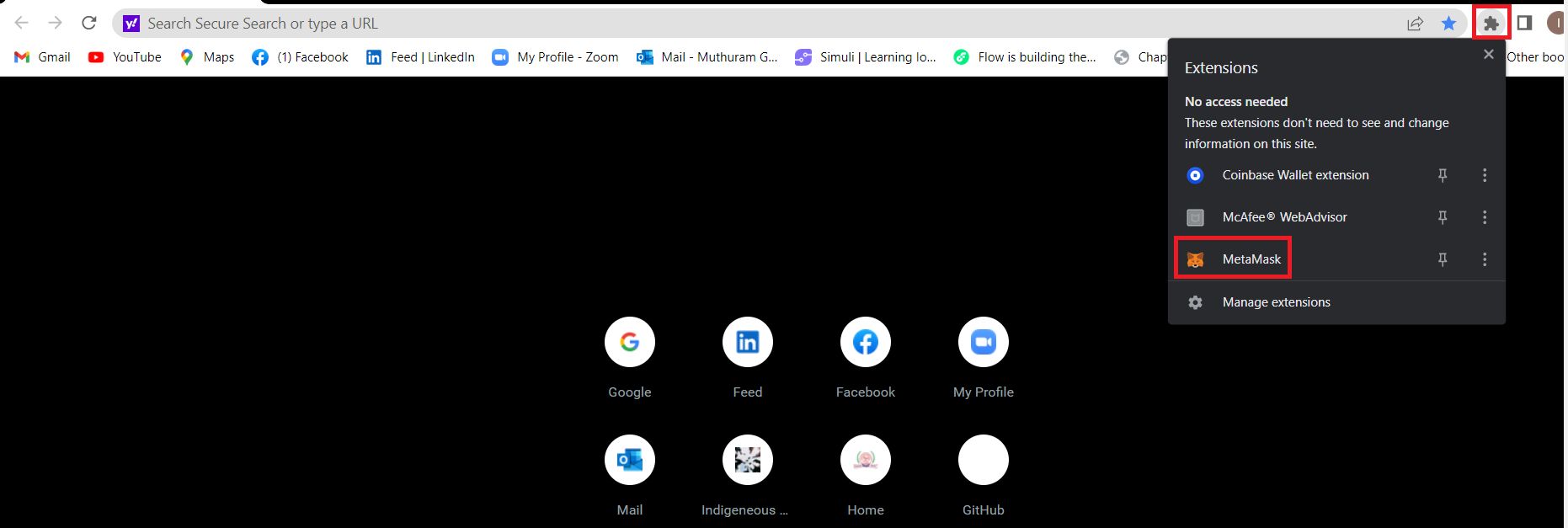
**truffle version**

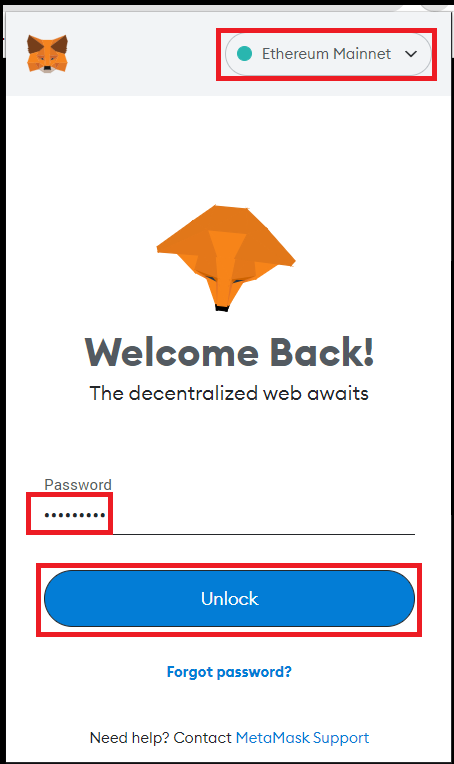
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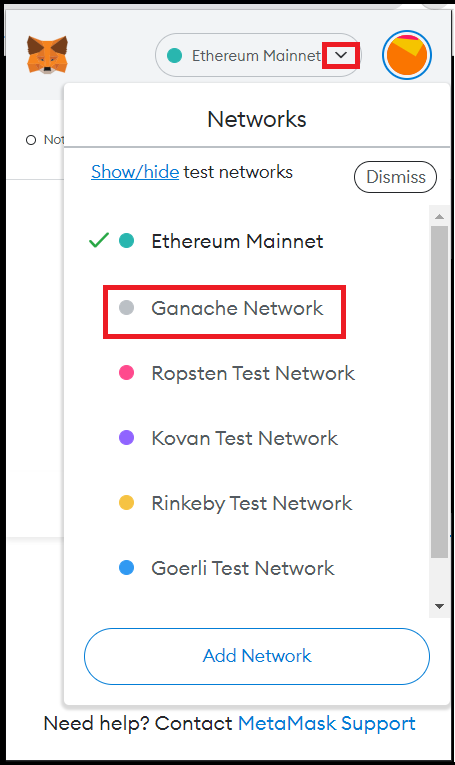
# **Check the availability of Ganache in your System**

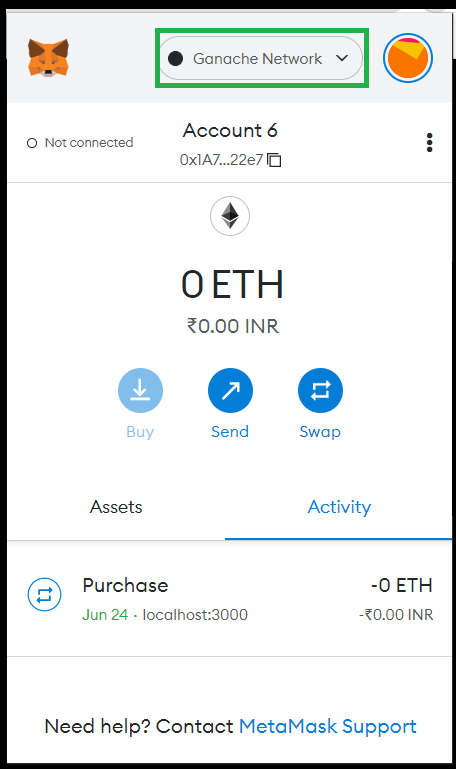


# **Check the availability of Metamask as the extension of your Chrome Browser and also the availability of “Ganache Test Network” in the Metamask Wallet**



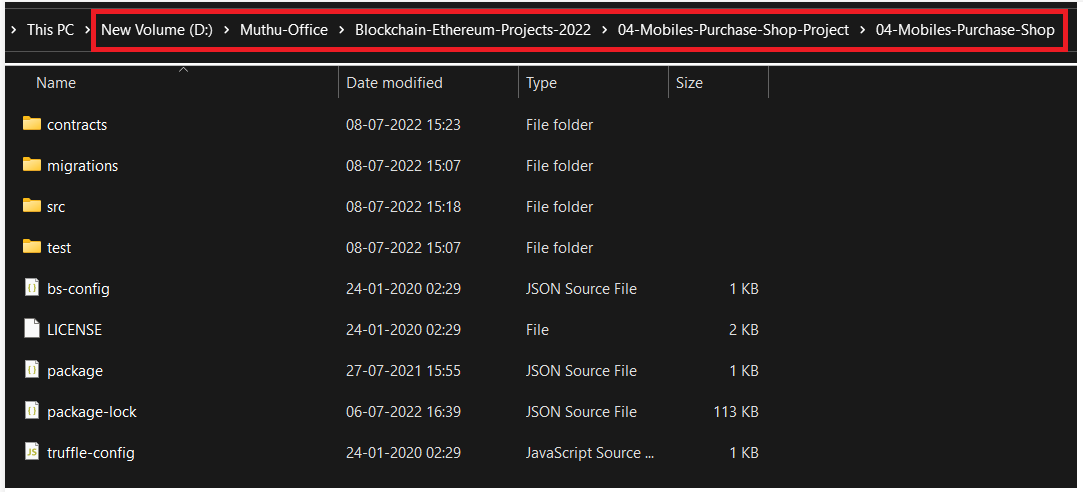






# **Setup the “Mobiles Purchase Shop” project in Windows System**

# **Check the availability of Project files in your project folder and confirm**

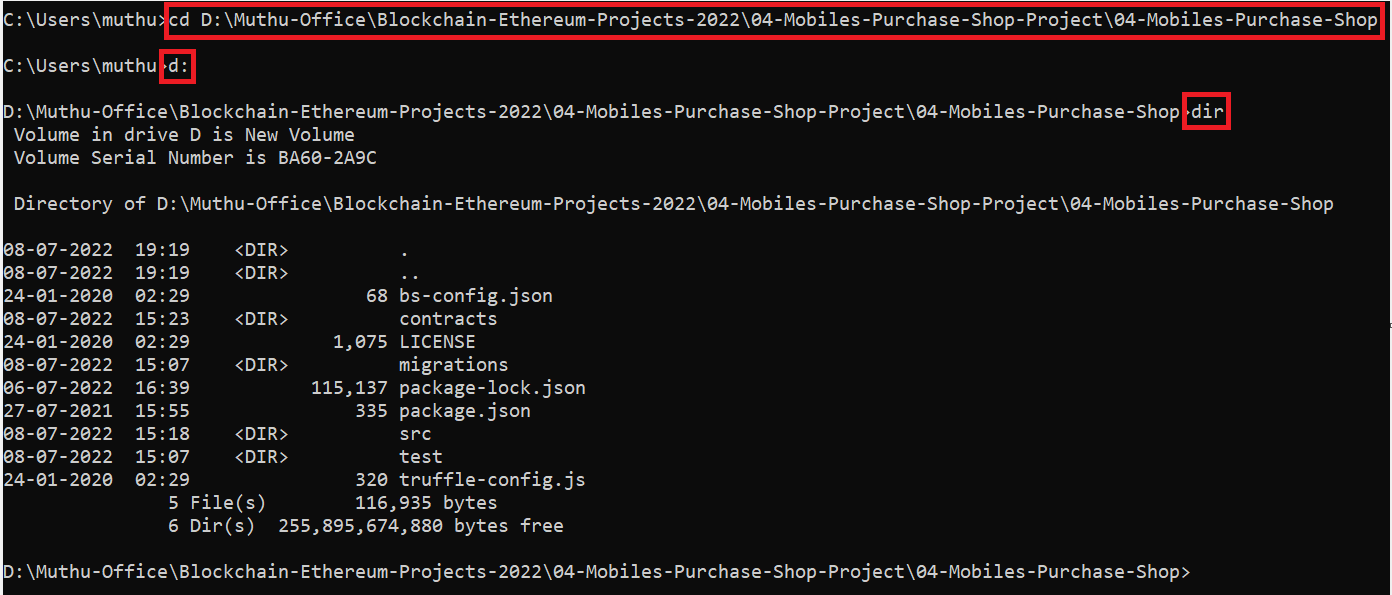


# **Open the Windows Terminal and change over to the Project Folder, list the directory and confirm the availability of Project Files**

**cd D:\Muthu-Office\Blockchain-Ethereum-Projects-2022\04-Mobiles-Purchase-Shop-Project\04-Mobiles-Purchase-Shop**

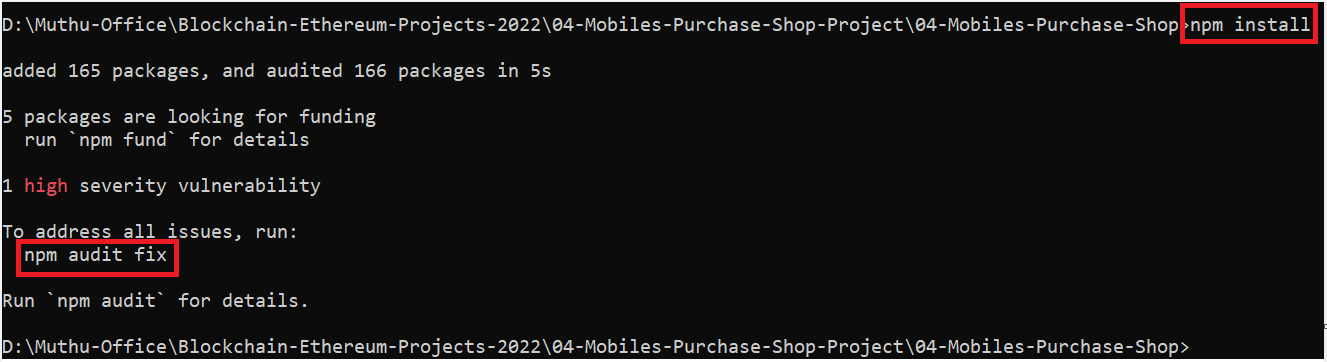
**d:**

**dir**

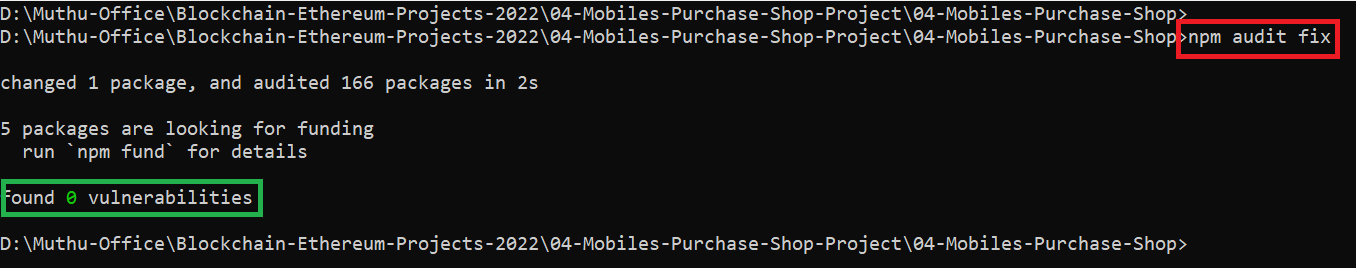
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# **Execute the command “npm Install” and verify the availability of “node\_modules” directory**

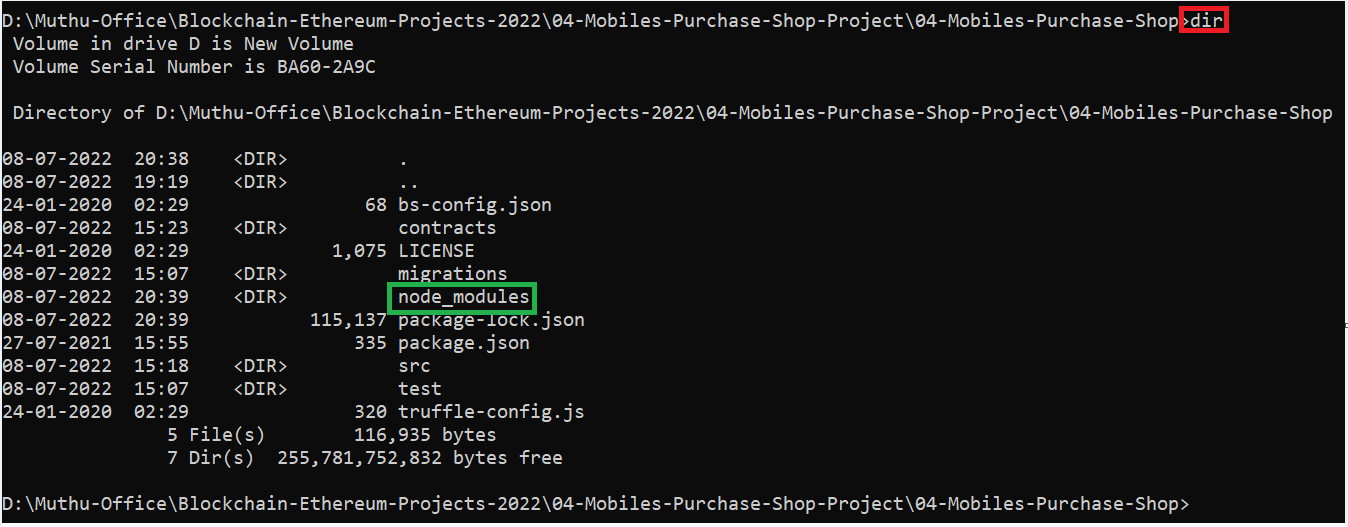
**npm install**

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**npm audit fix**

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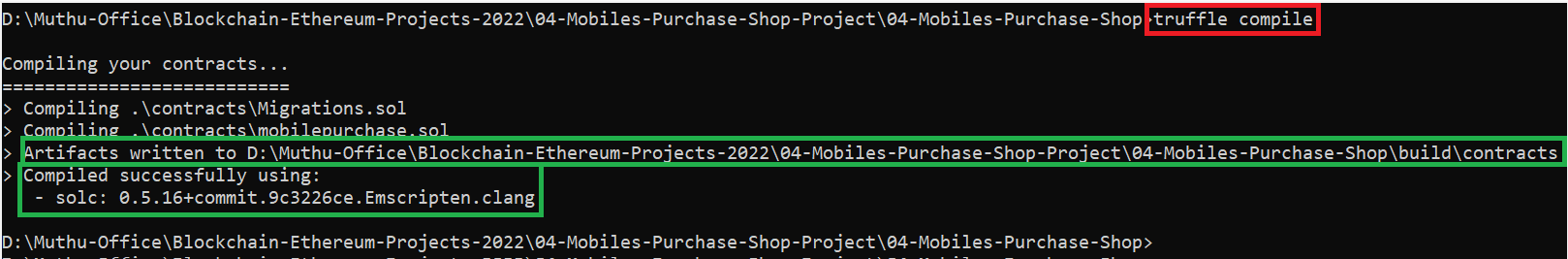
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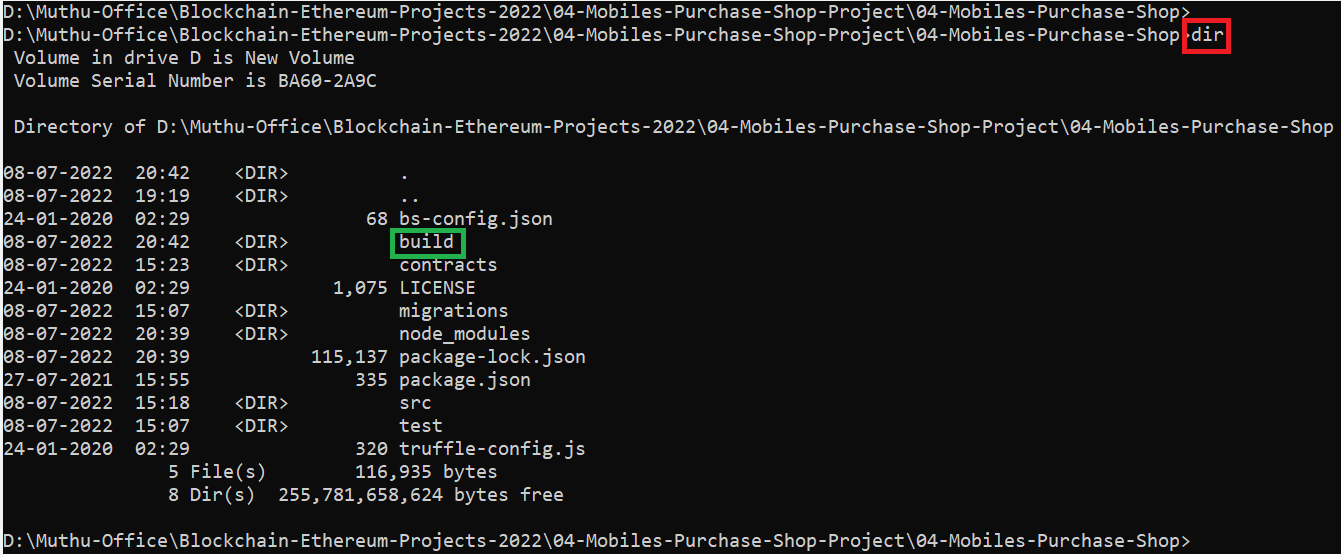
# **Compile and deploy the “Mobiles Purchase Shop” Project**

# **Compile the contract files and verify the creation of “build” directory**

**truffle compile**

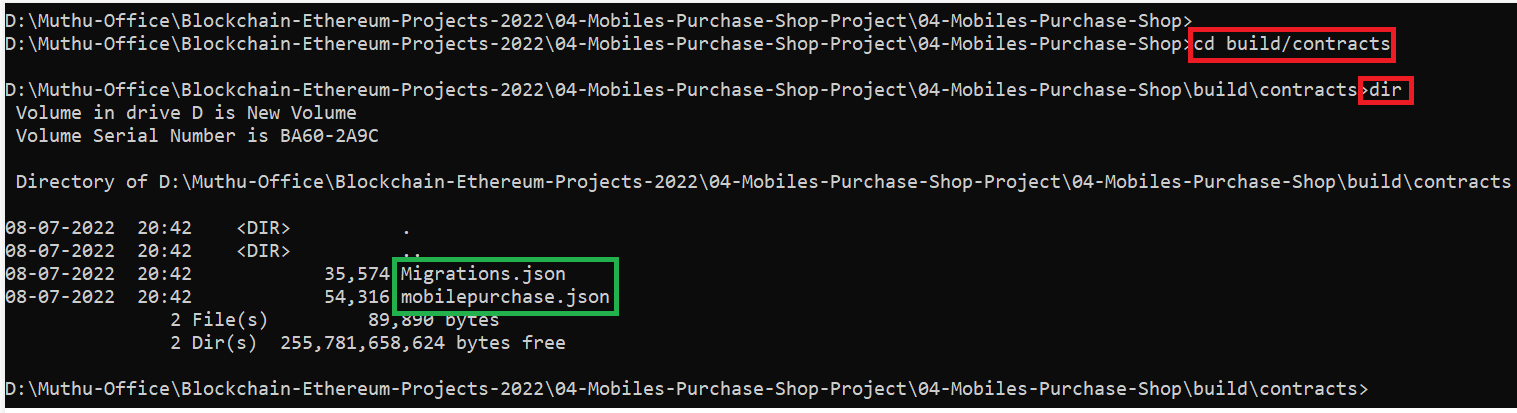
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**dir**

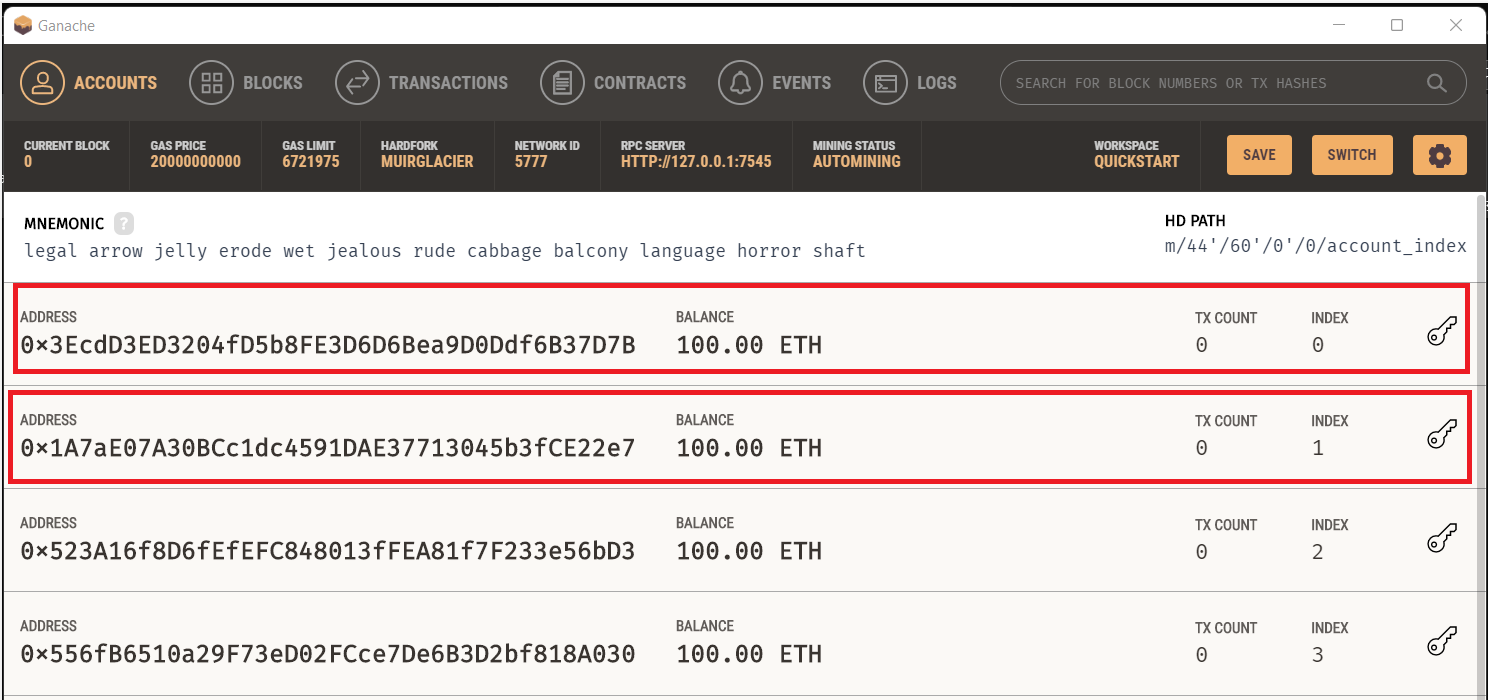
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**cd build/contracts**

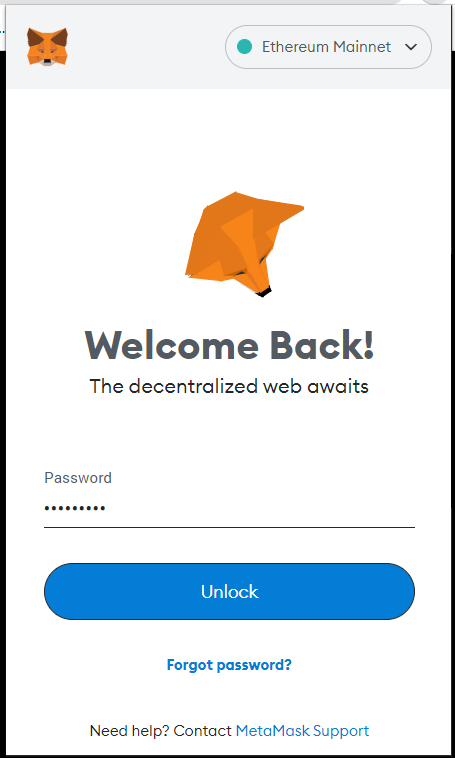
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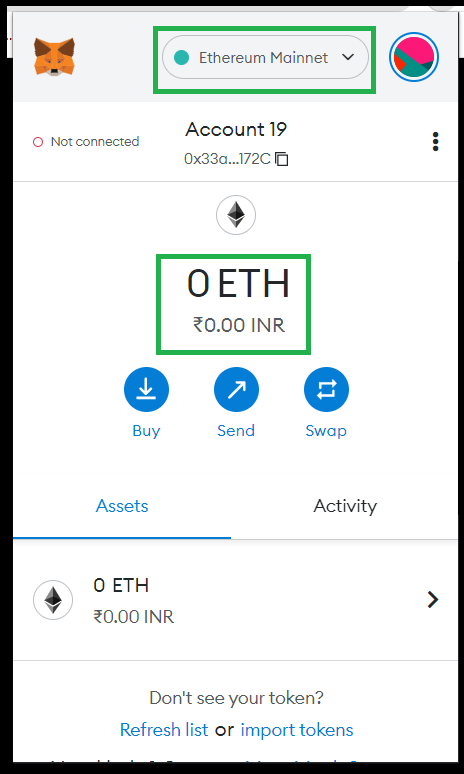
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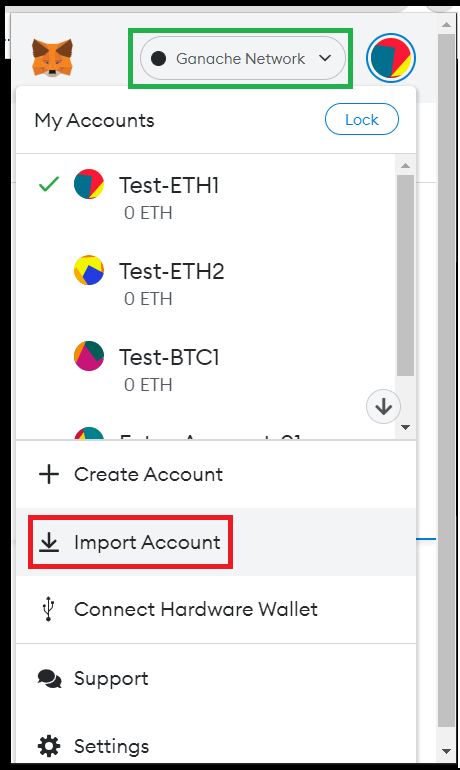
# **Start the Ganache Test Blockchain**

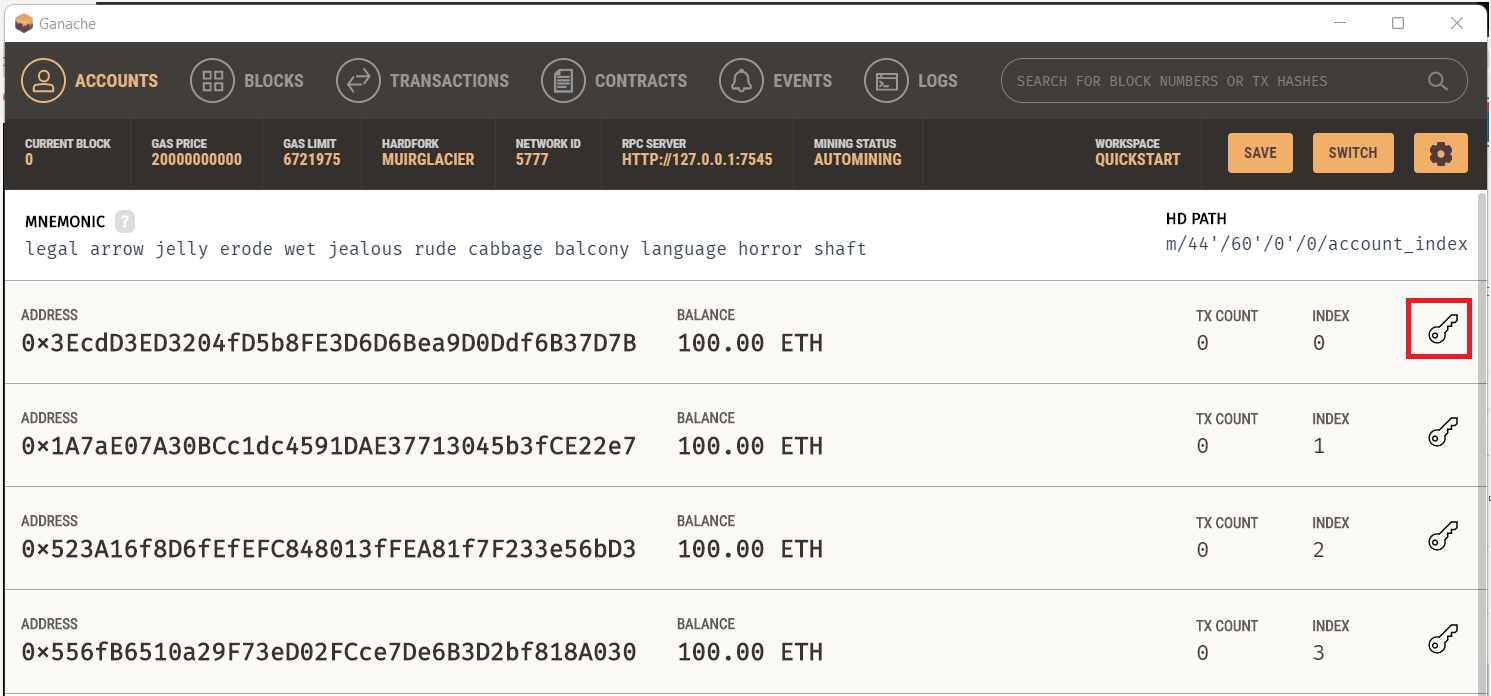
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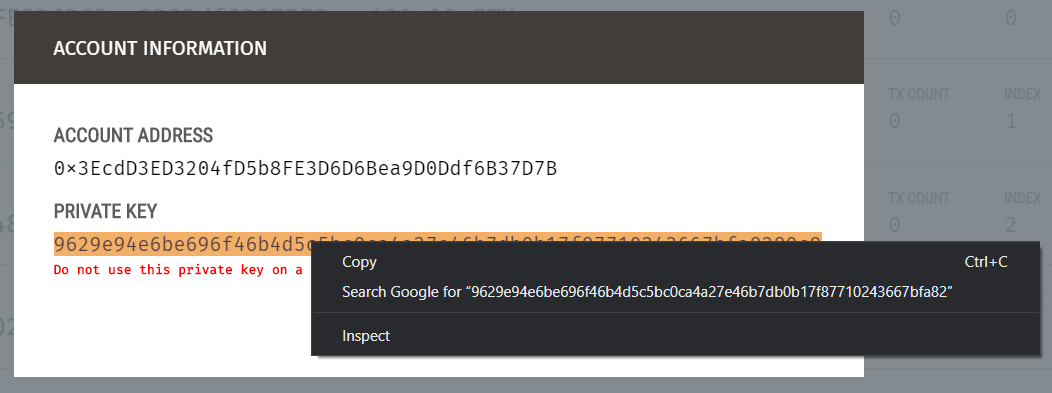
# **Start and unlock the Metamask Wallet. Select “Ganache Network”. Import the first account of Ganache Test Blockchain and confirm**

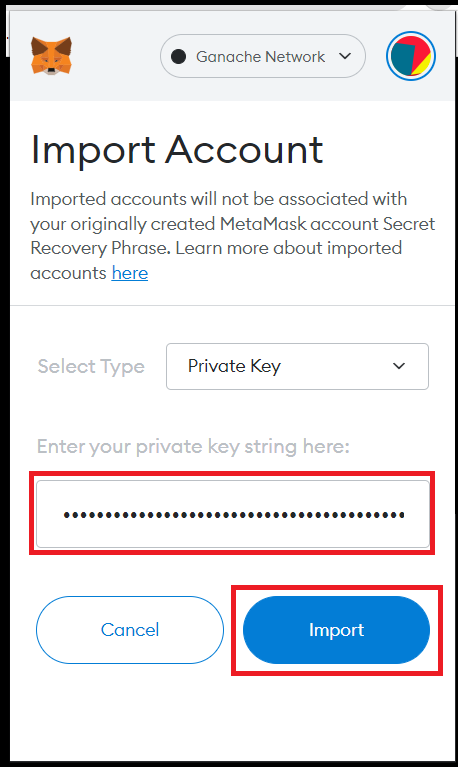


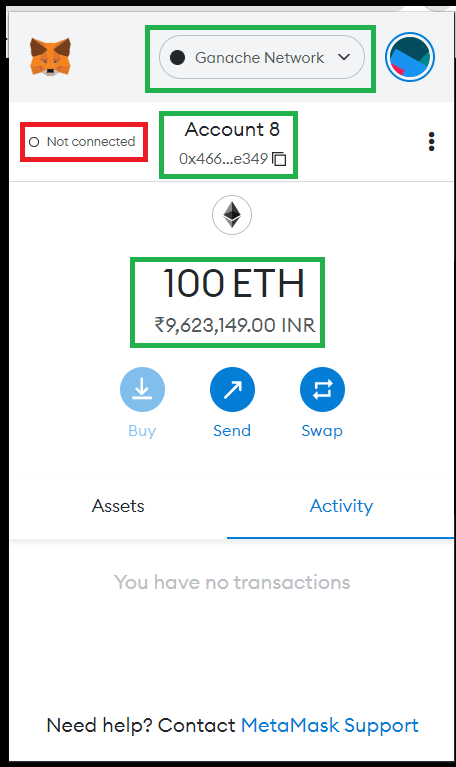




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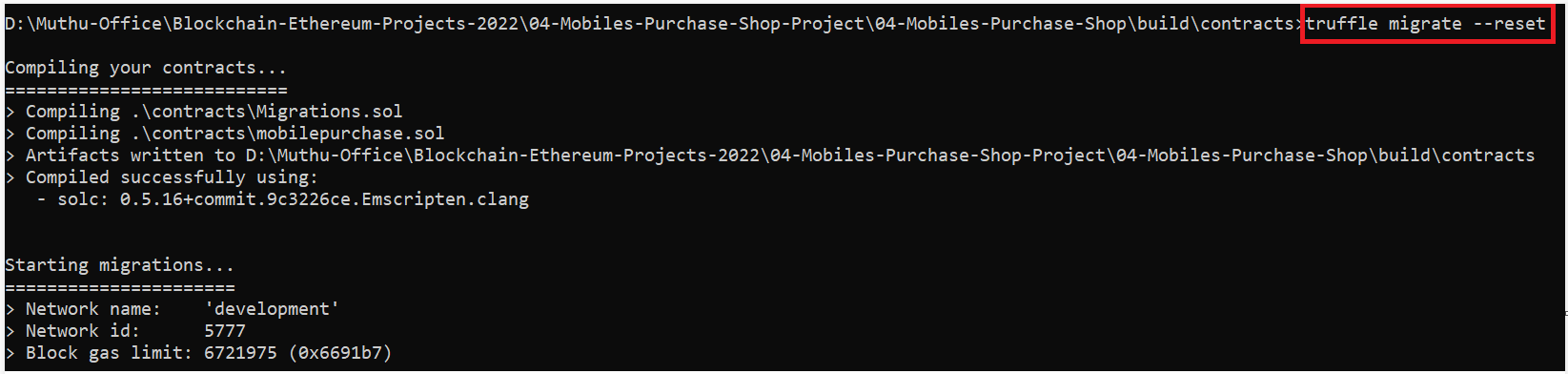


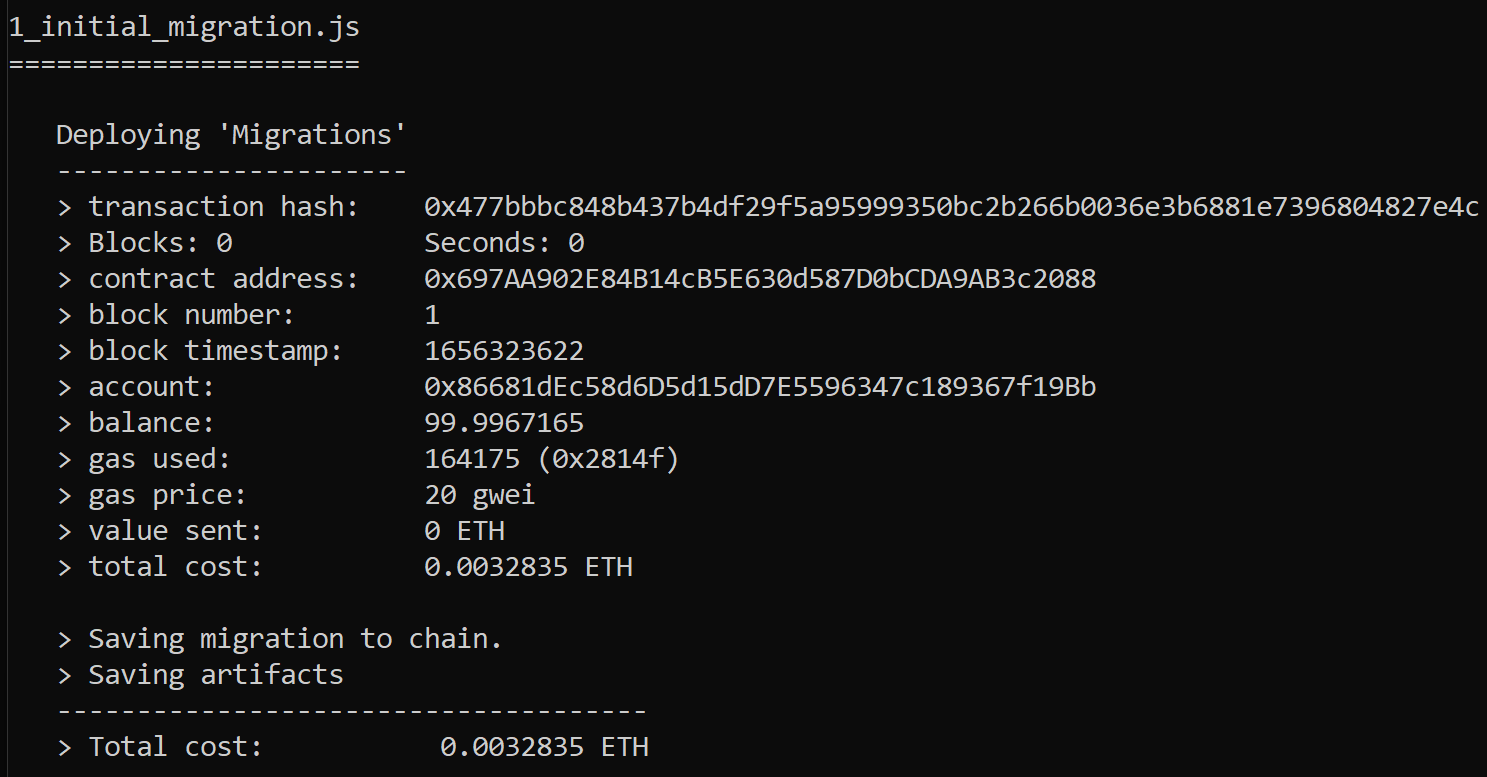


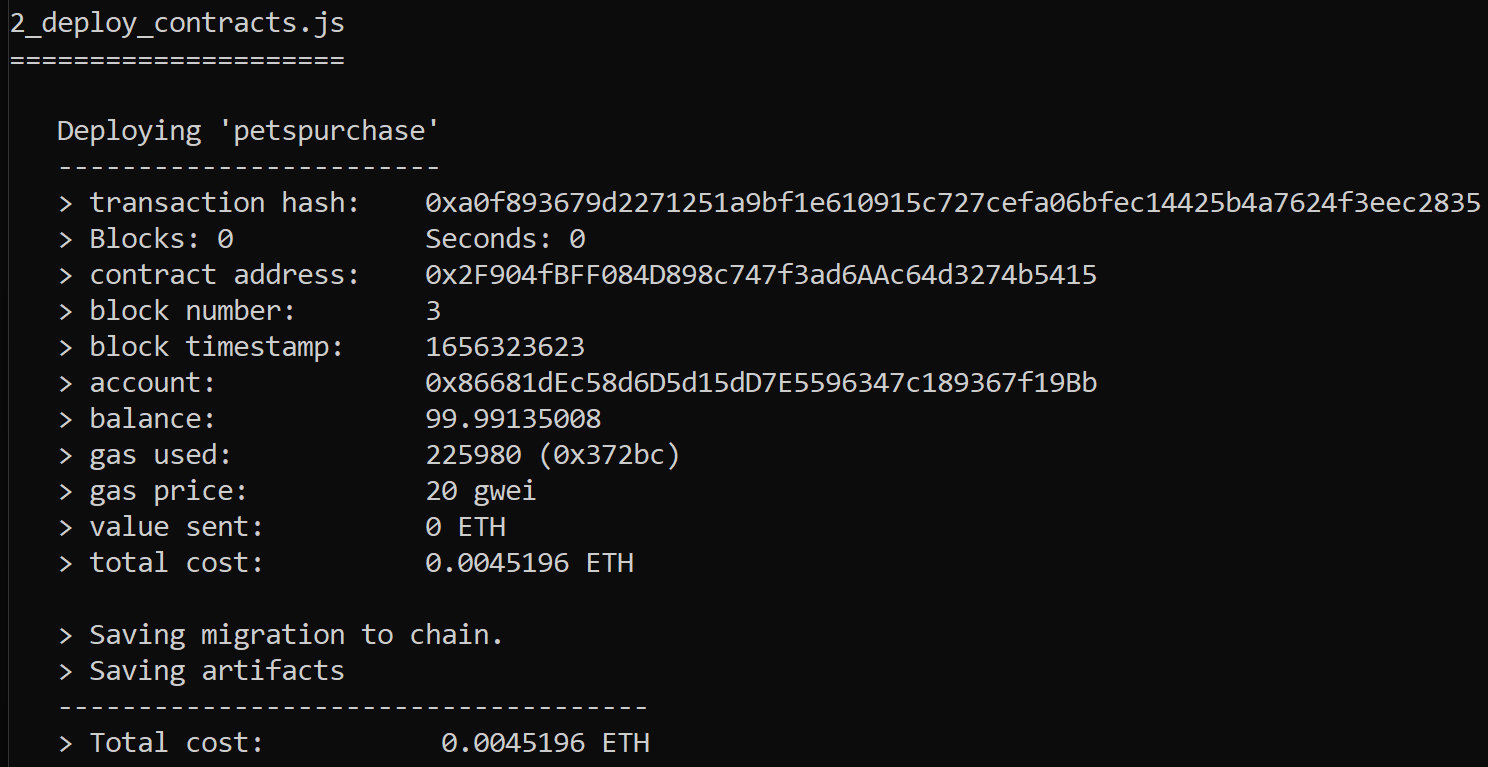


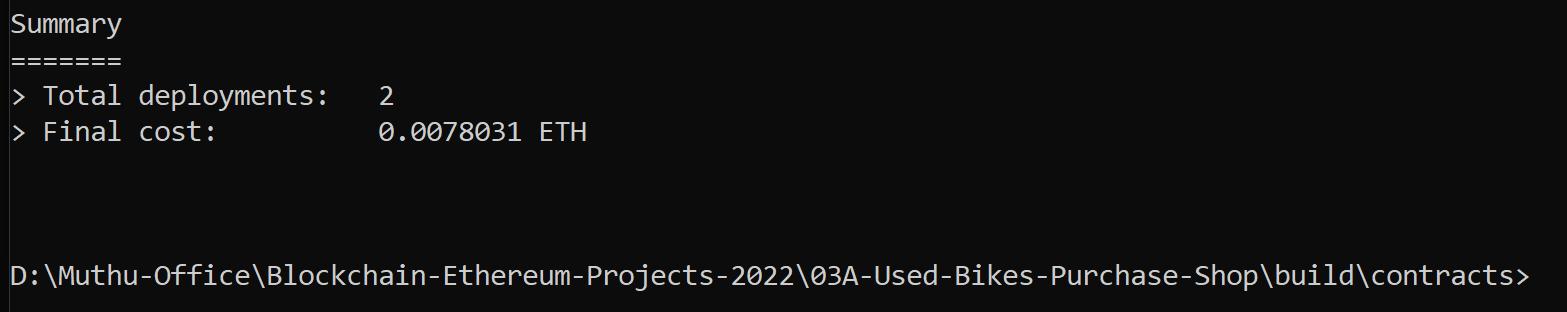
# **Deploy the contracts on to Ganache Test Blockchain and verify**

**truffle migrate - -reset**

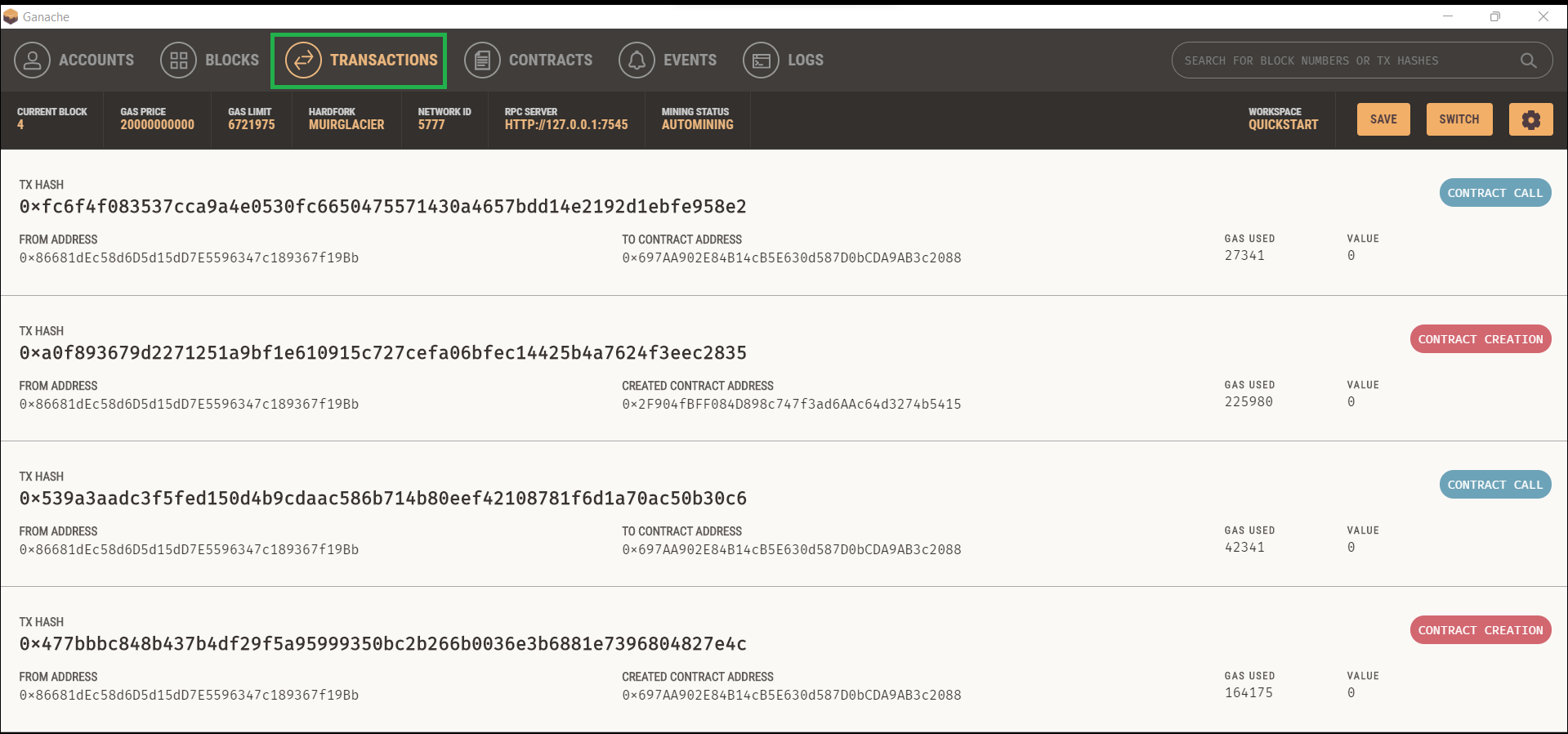
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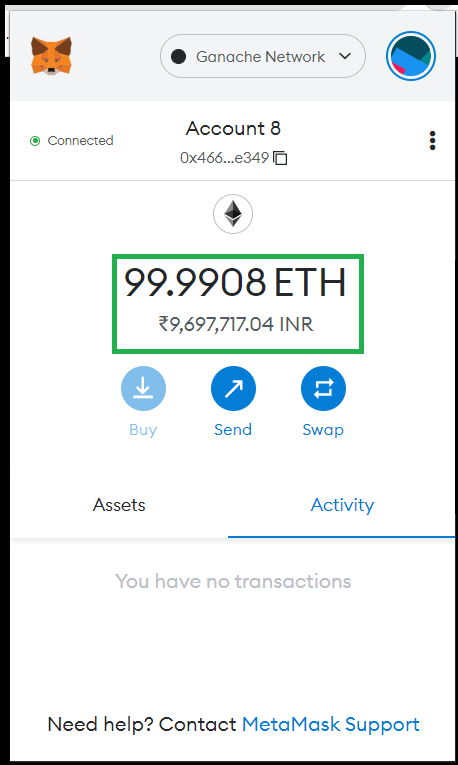
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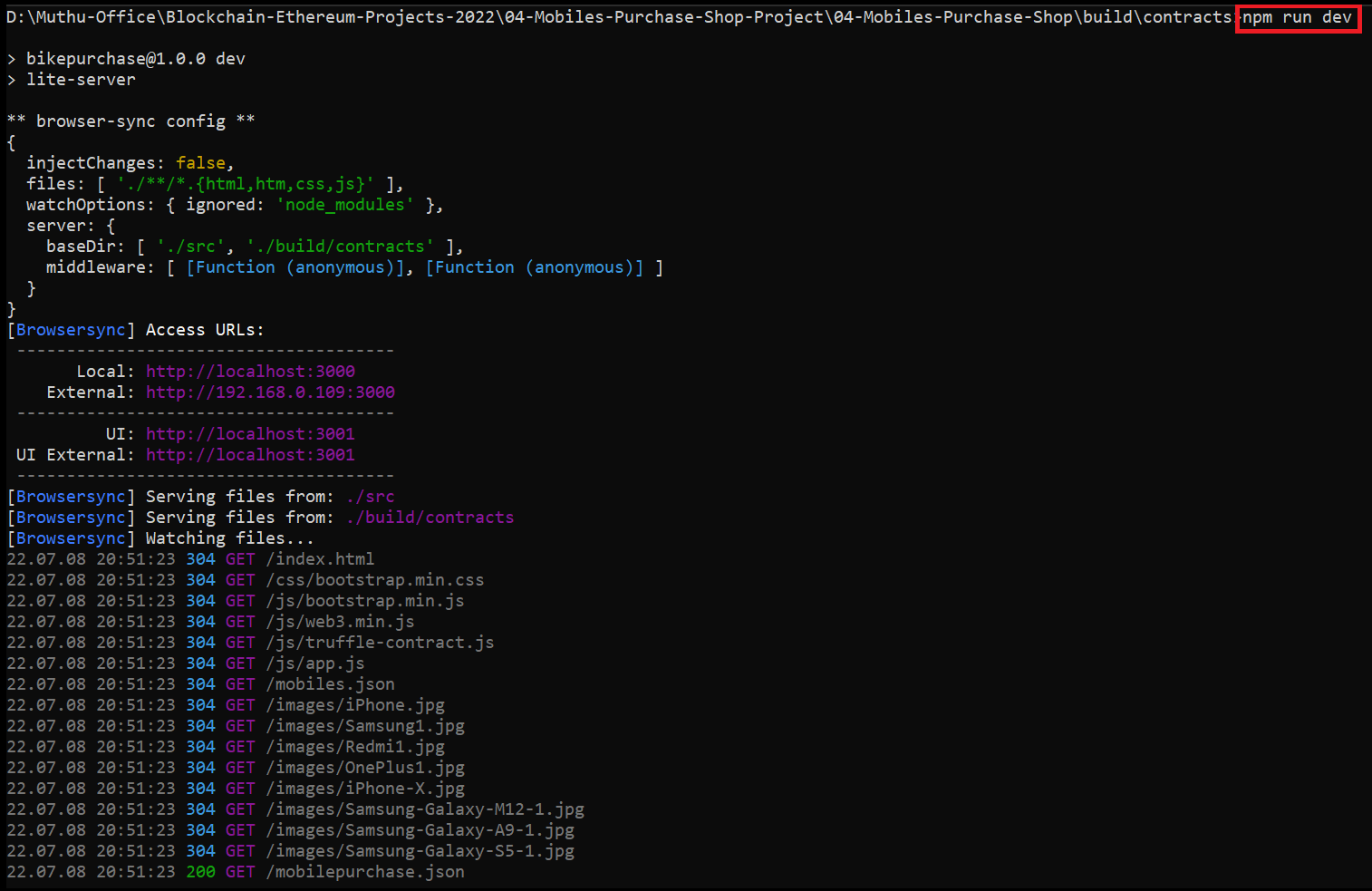




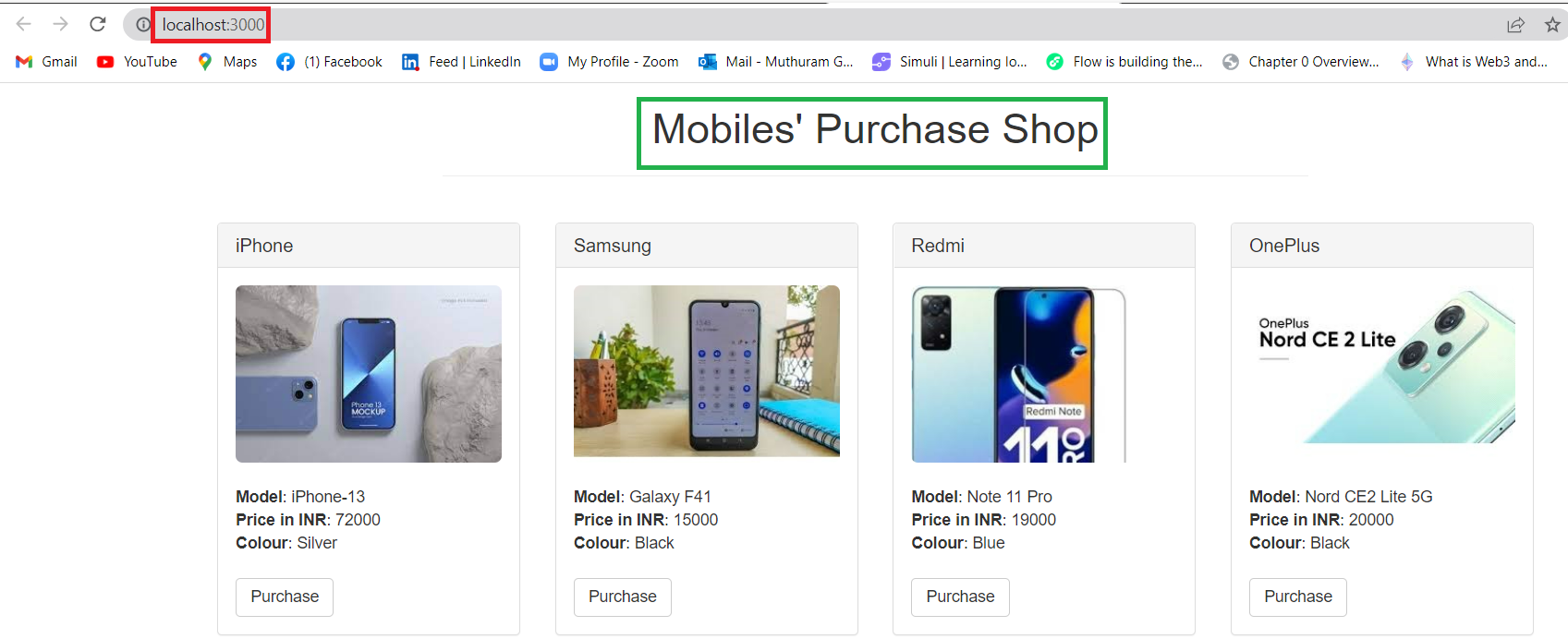
# **Start the Dev Server and verify the deployment of the project’s frontend**

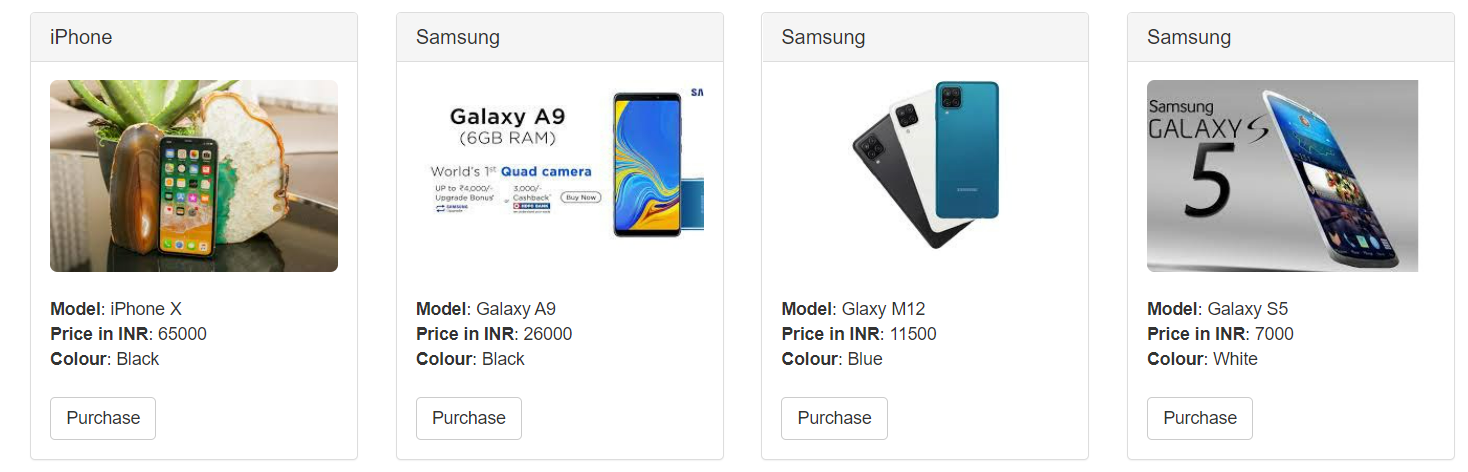
# **Start the Dev Server (lite-server)**

**npm run dev**



# **Verify the display of the Project’s frontend in the Chrome Browser**





# **Interactions with the “Mobiles Purchase Shop” Project using the frontend**

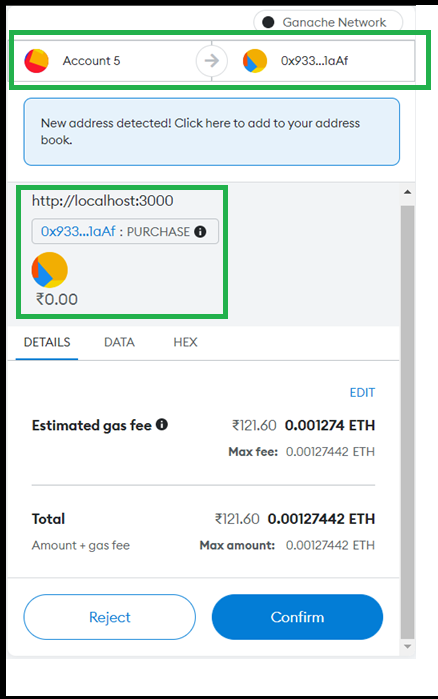
# **Purchase a “Mobile” using the currently connected Ethereum Account**

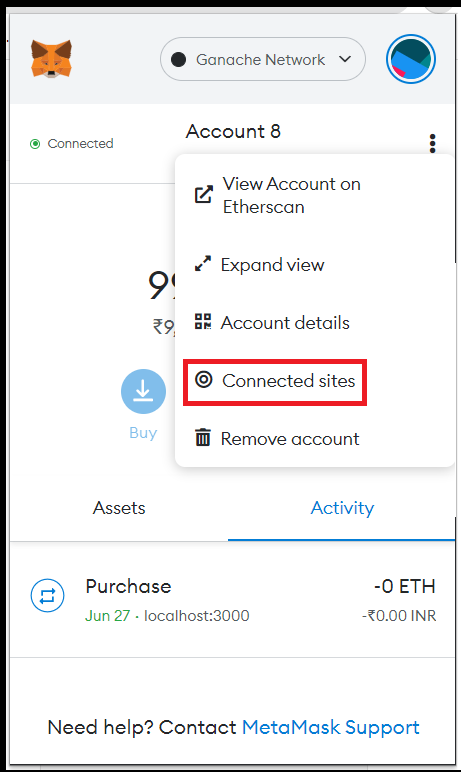
## **Click on “Purchase” button given under any one of the Bike pictures**

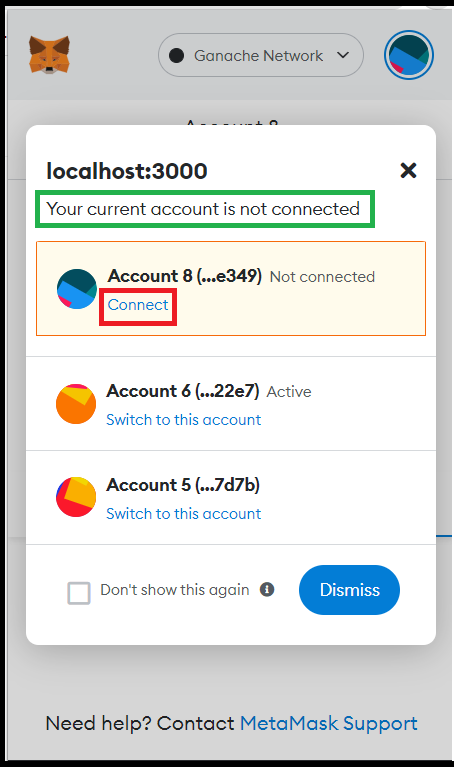


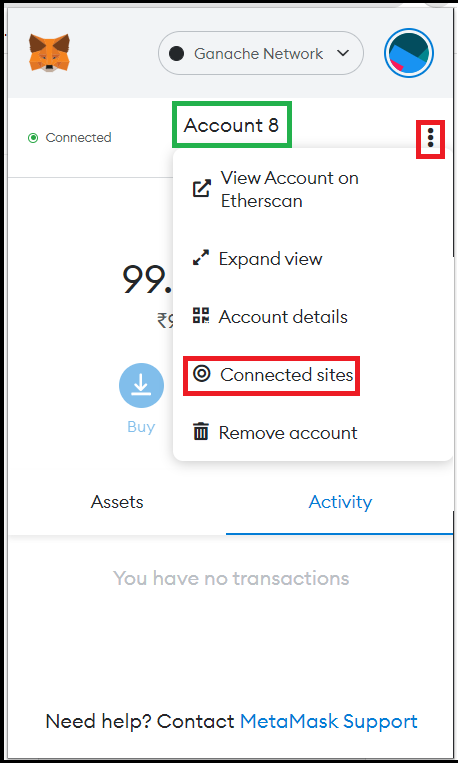
## **Check on the Metamask account displayed and make sure that your recently imported account is displayed and it is loaded with 100 Ethers.**

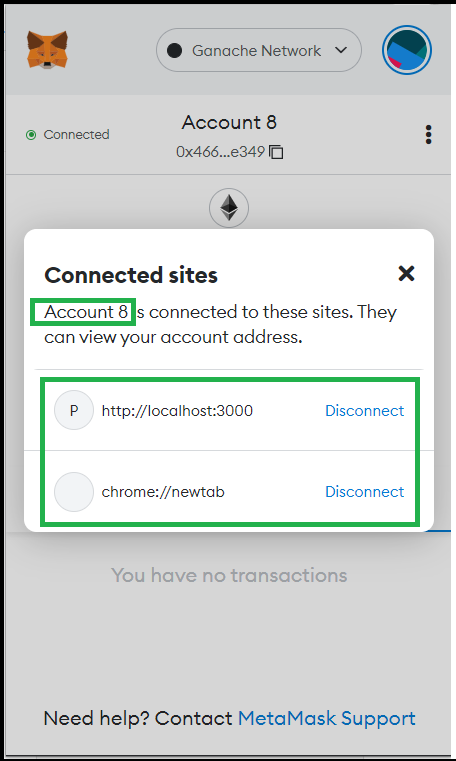
**Note: If your recently imported account is not displayed means that account is not active with the Ganache Test Blockchain. Make sure that that account becomes active.**







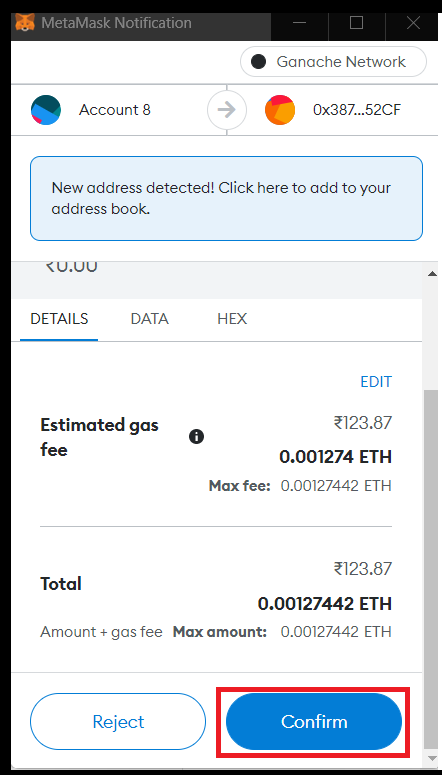




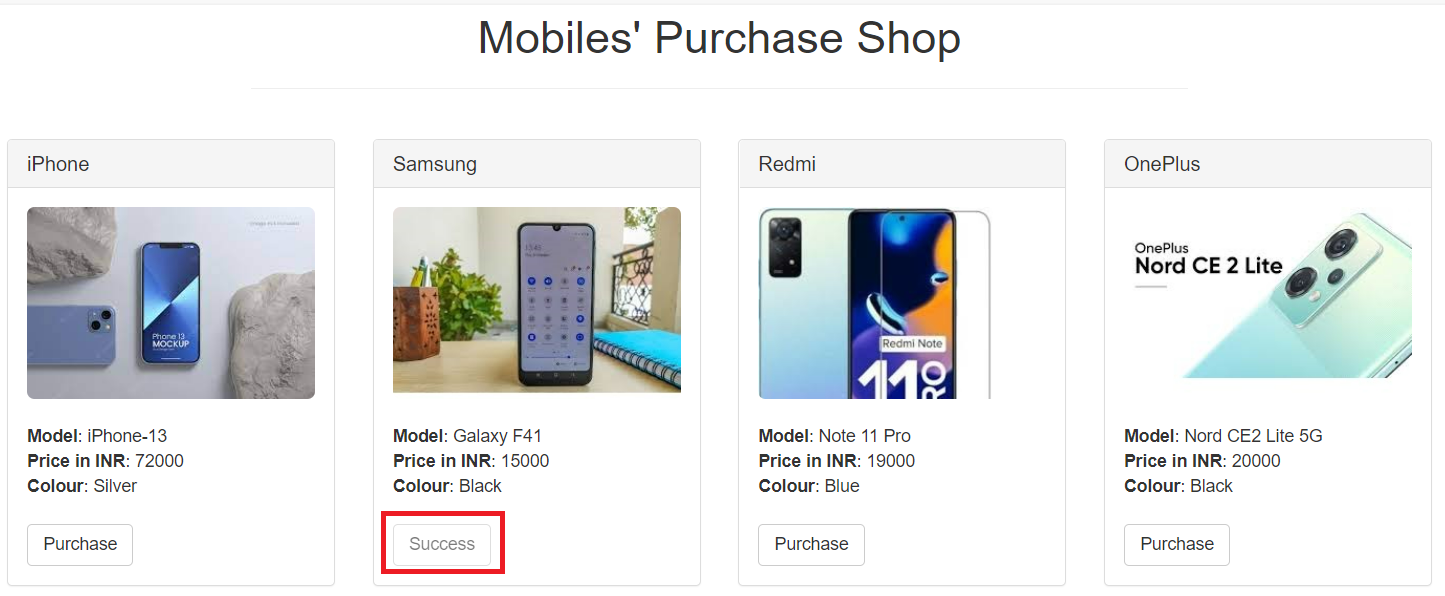
## **Now, click on “Purchase” button given under any one of the Bike pictures**



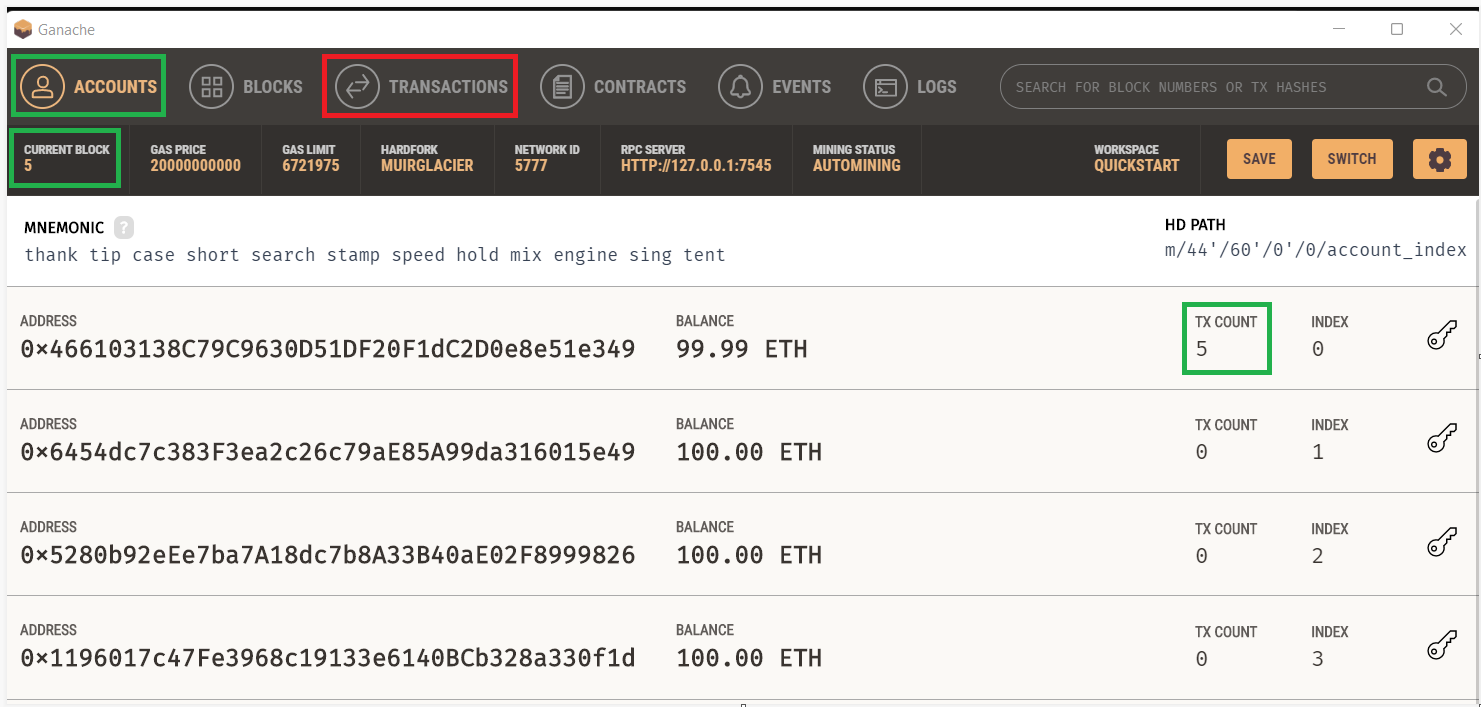
## **Verify the Metamask Wallet display (like Account Info, Estimated Gas Fee, Total Fees) and then click on “Confirm” button.**

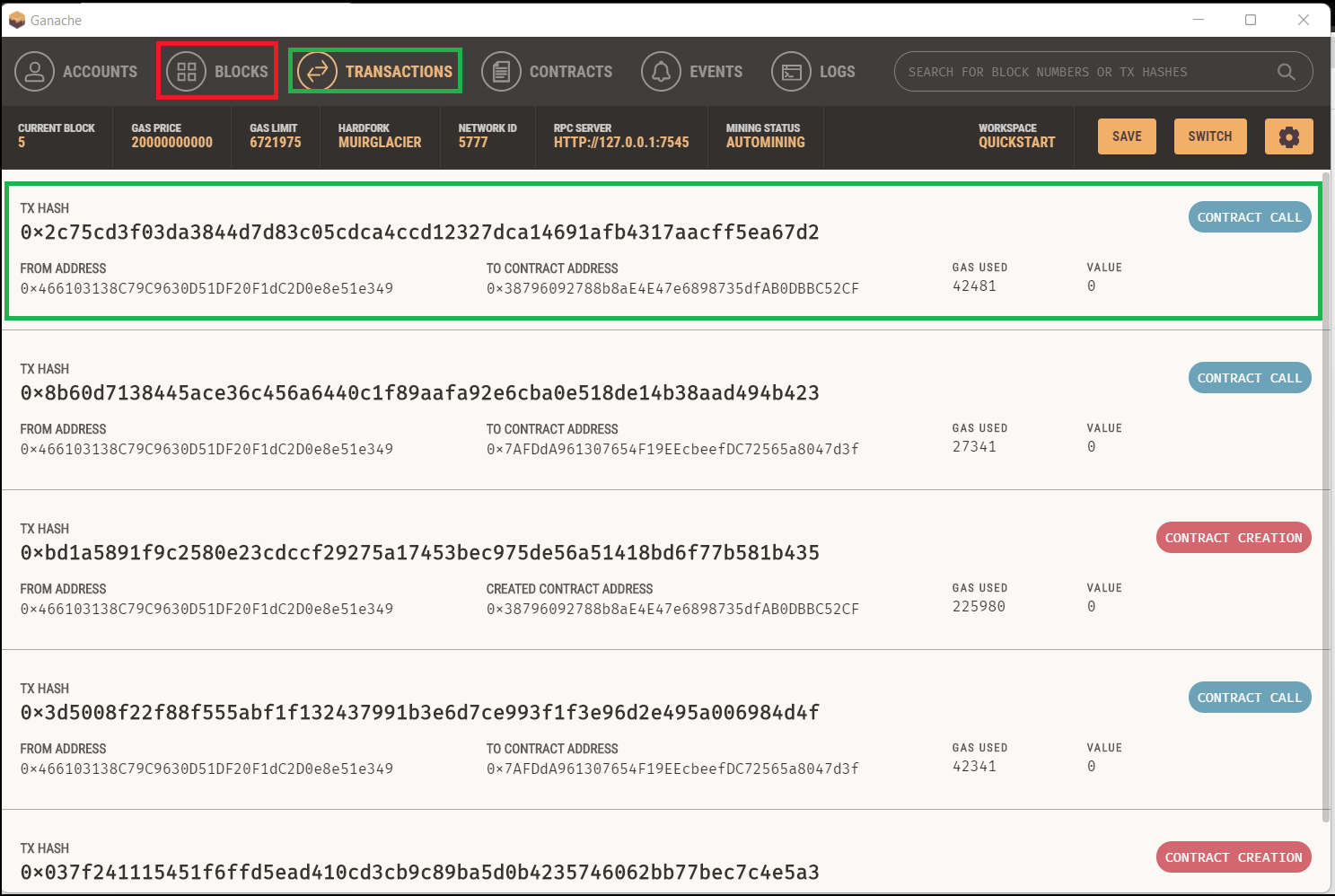


## **Verify that the clicked “Purchase” button is changed to “Success”. The Ethereum Account info is displayed under Purchaser.**



## **Verify the Ganache TX COUNT, Transaction and New Block Creation**





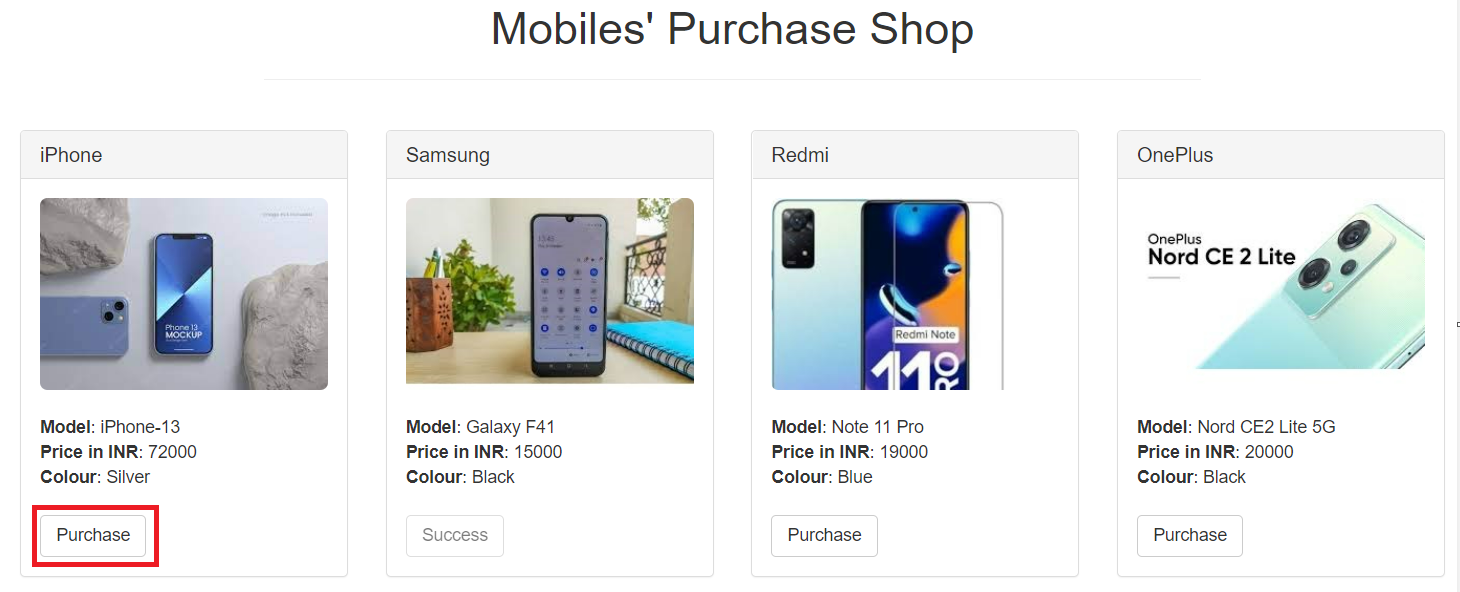


# **Purchase a second “Mobile” with the same Ethereum Account**

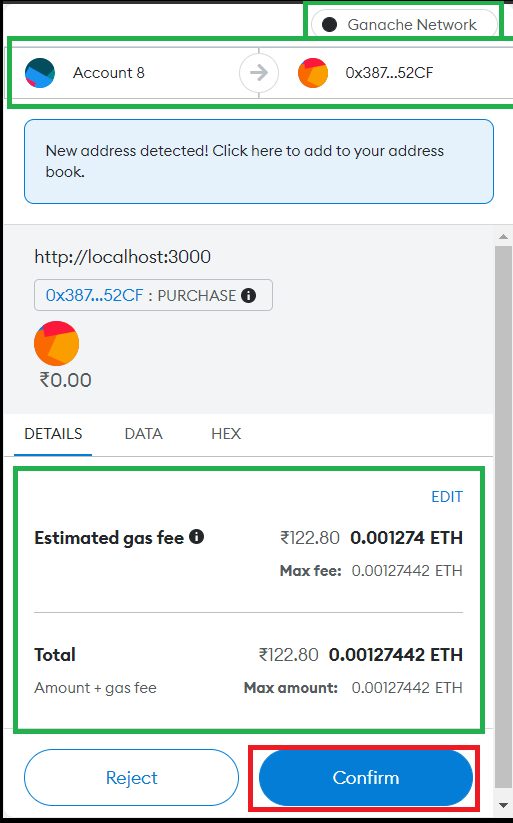
## **Click on “Purchase” button below any of the Mobile pictures which has not been purchased so far**

**Note-1: You cannot purchase a Mobile which has already been purchased**

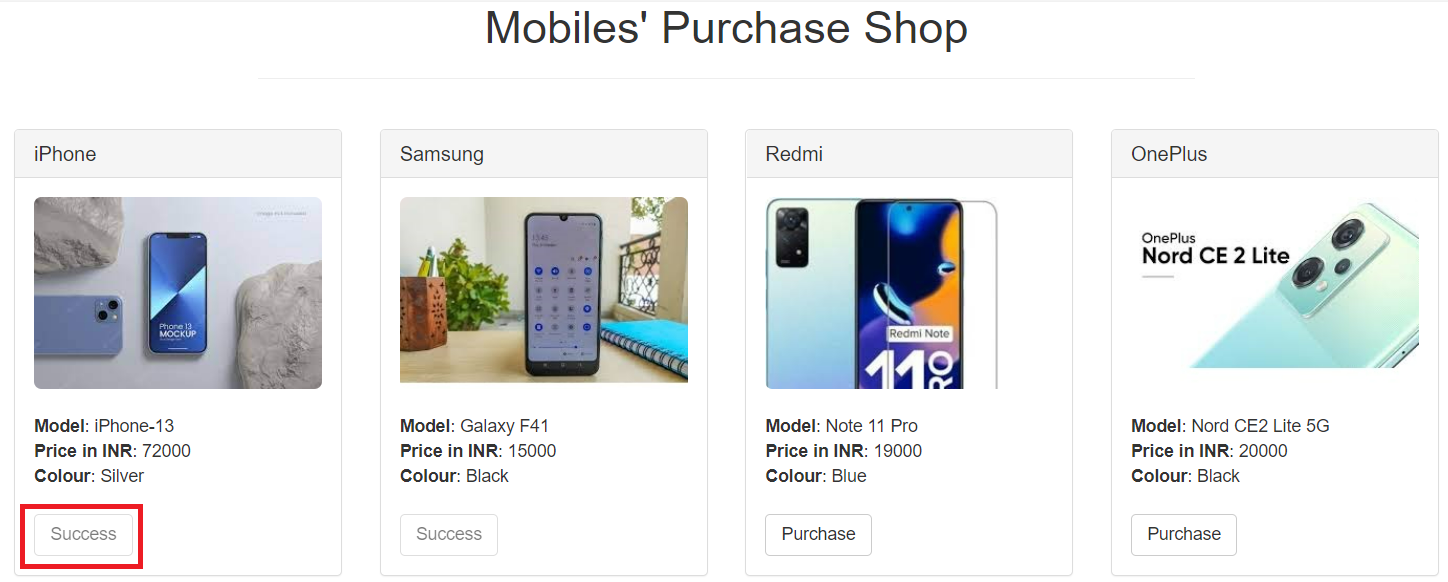
**Note-2: With the same Ethereum account you can purchase more than one Mobile**

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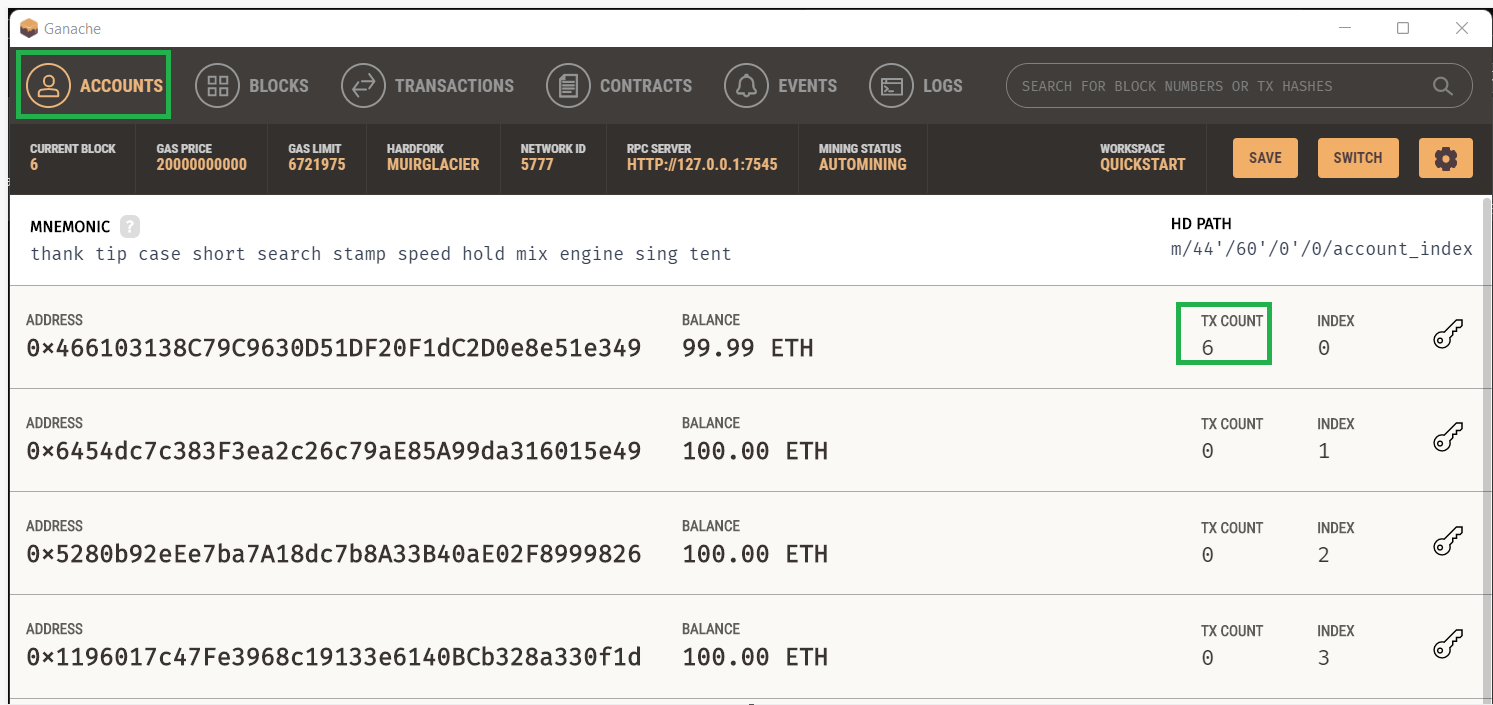
**b) Verify the Metamask Wallet display (like Account Info, Estimated Gas Fee, Total Fees) and then click on “Confirm” button.**



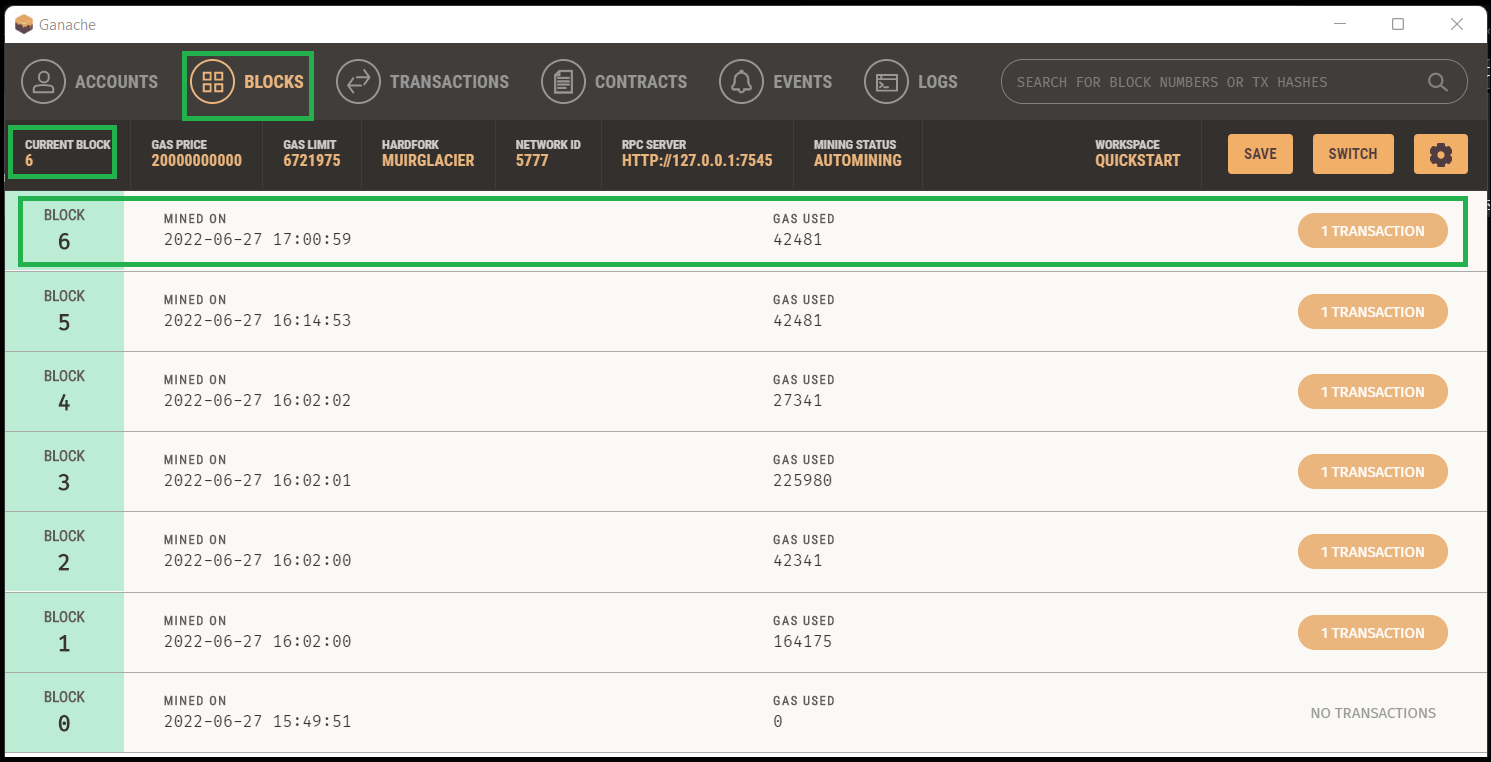
## **Verify that the “Purchase” button has changed into “Success”.**



## **Verify the Ganache TX COUNT, Transaction and New Block Creation**

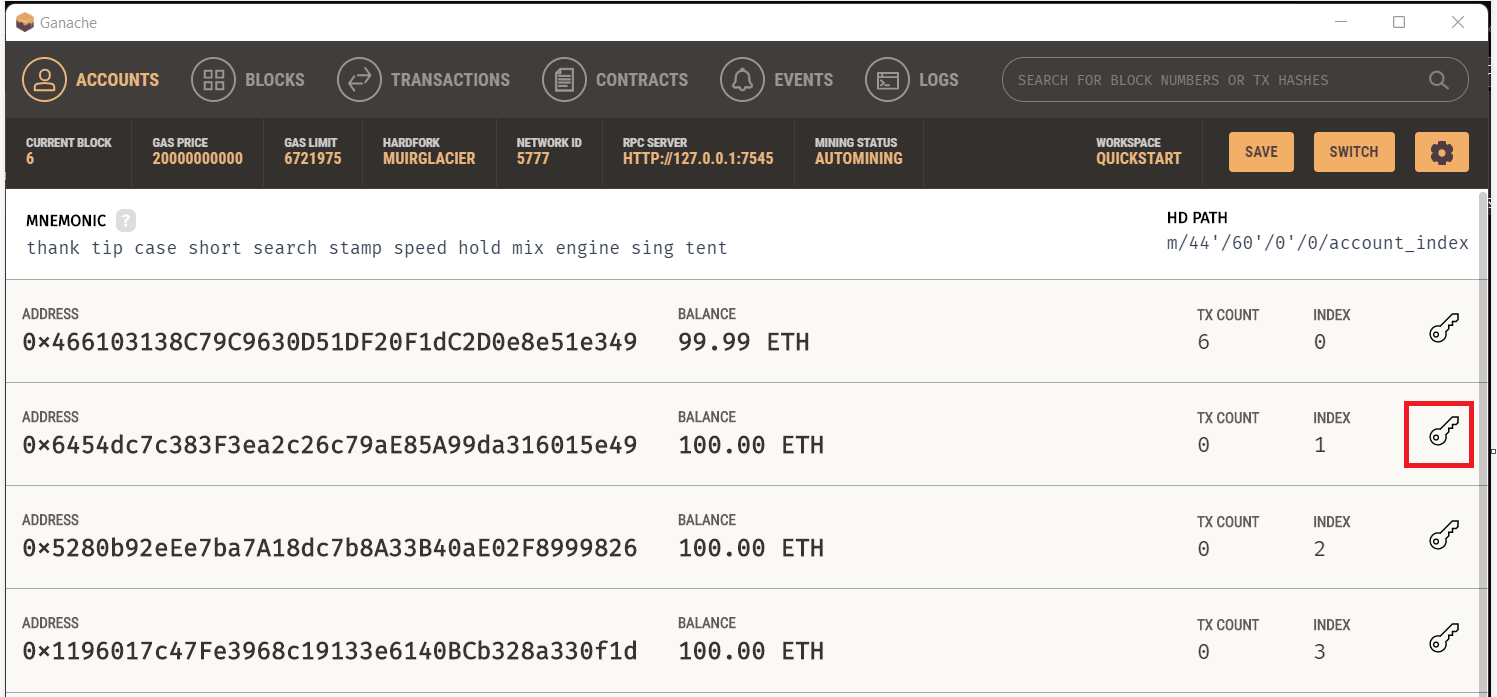


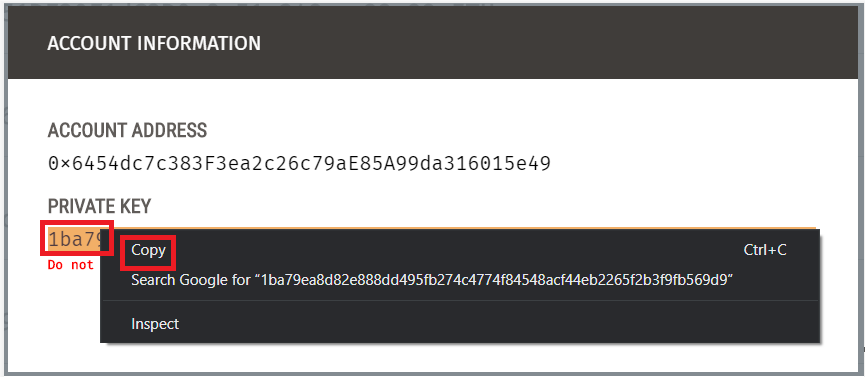




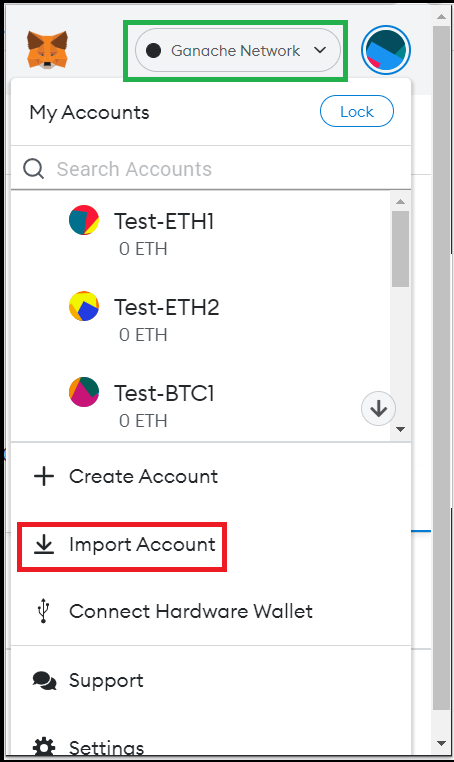
# **Purchase a “Mobile” with the another Ethereum Account**

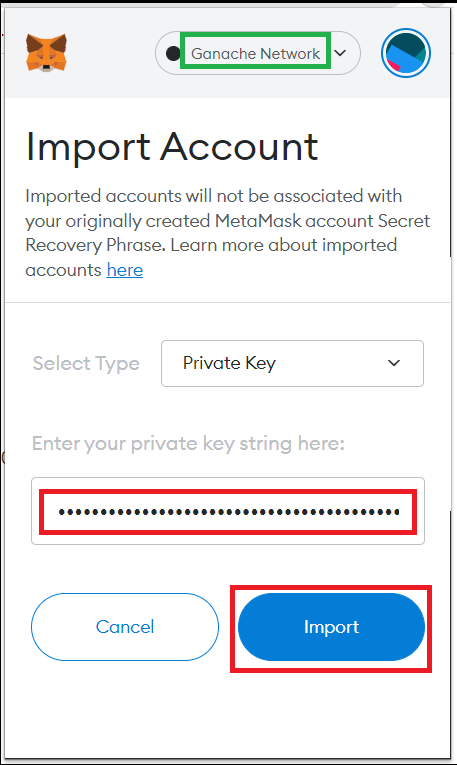
## **Copy the Private key of the Second Ethereum account in Ganache**



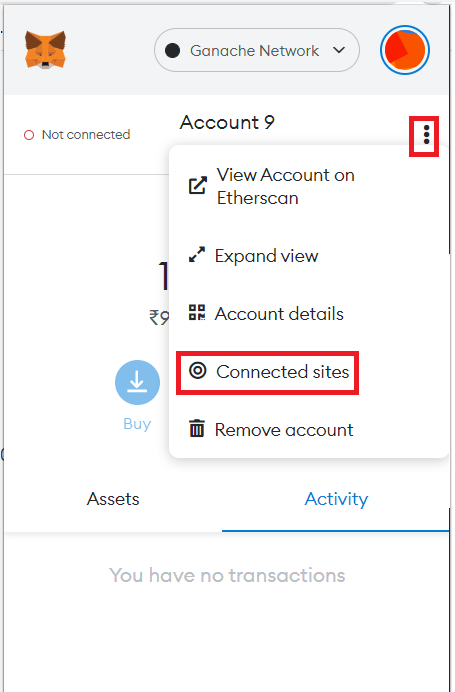


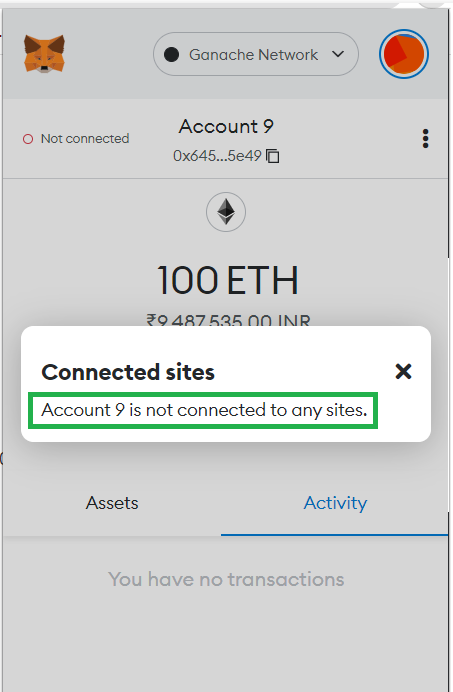
## **Select the “Ganache Network” in the Metamask, import an account, paste the just copied Private Key and click on “Confirm” button**

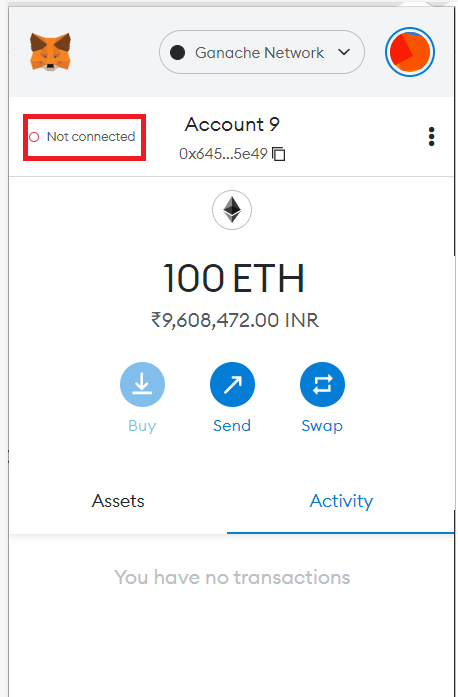


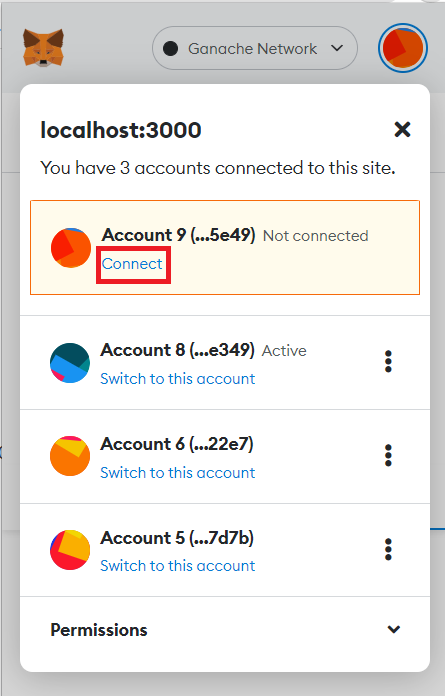


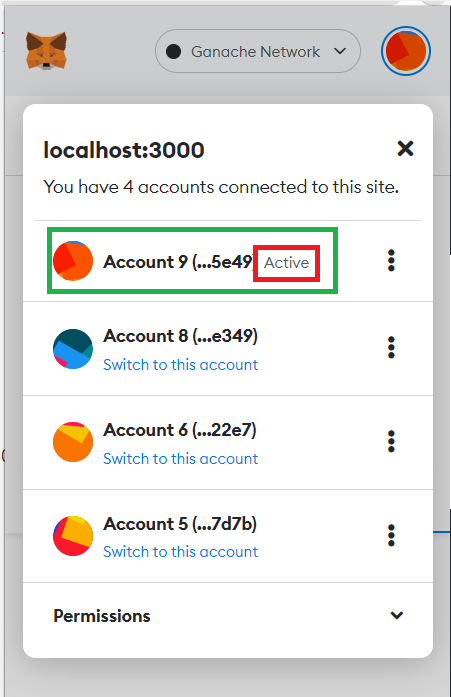




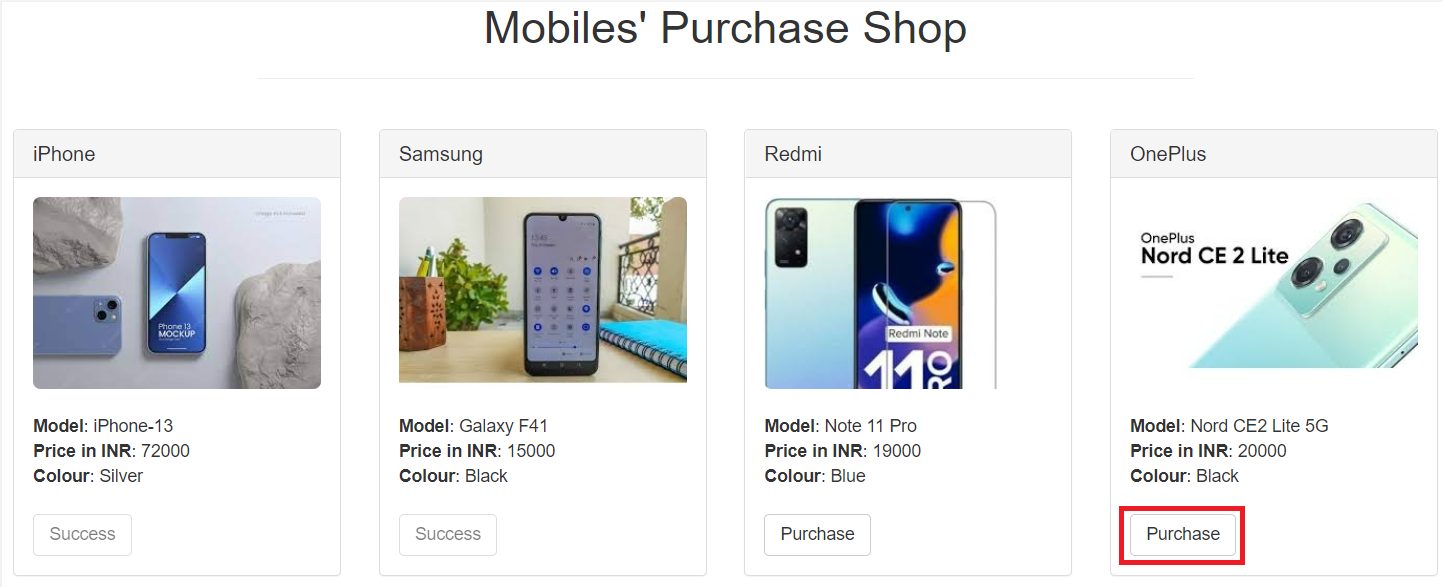




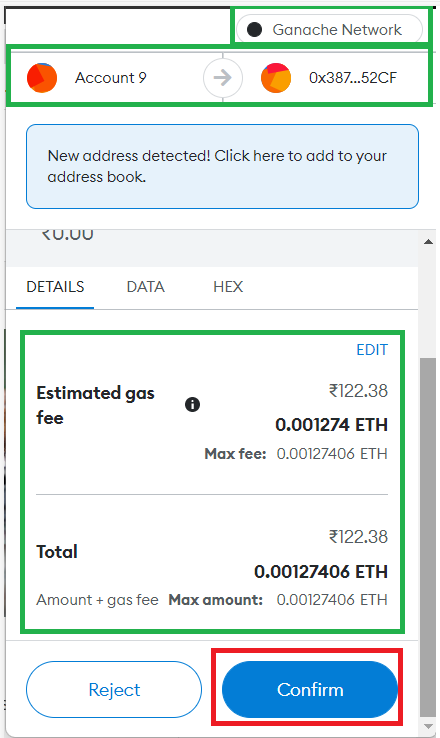




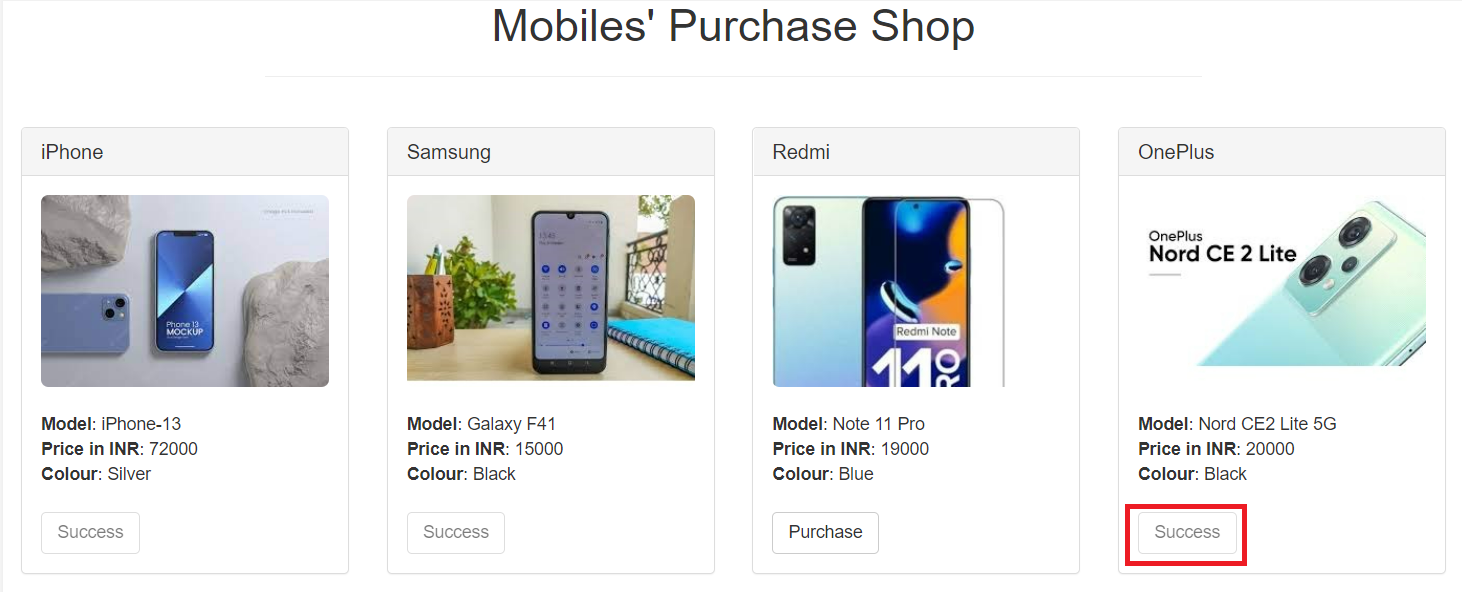
## **Click on “Purchase” button given under any one of the Mobile pictures which has not been purchased so far**



## **Click on “Confirm” button in the Metamask**



## **Verify that the “Purchase” button has changed into “Success”**



## **Verify the Ganache TX COUNT, Transaction and New Block Creation**

