AUTO SCRUPLE

Aleena Kuriakose
S4 MCA A
Roll No: 09

Description of the topic

A car starts degrading and releases toxic emissions either due to an accident or aging, which in turn contaminates the environment. Such a car is considered a scrap car according to the Scrapping policy.

The system is incorporated with three entities, the scrap dealer, car owner, and the RTO. The scrap dealer, car owner, and RTO cooperate with each

Once the scrap dealer and car owner registers, the RTO will verify them and approves the scrapping requests.

Relevance Of The Topic

Scrapping of cars in India is not an organized process like the sale of used cars.

Transactions related to vehicles mainly involve buying and selling. However, tracking these transactions can be a challenging task.

Even though there exist some solutions using centralized systems, they may have problems with transparency, trust, and access control. Also, scrap dealers might deceive naive customers by fixing unfair prices for the cars given for scrapping.

Therefore, I provide an integrated blockchain and machine learning-based solution for automating the transactions related to the scrapping of cars.

The next step is detecting damage of the car and predicting the price conforming to the damage detected and other features of the car.

After scrapping the car, the scrap dealer has to put forward all information about the scrapped car to the RTO.

The RTO will verify the details and issue a certificate to the car owner stating that the vehicle is deregistered. The certificate is generated using blockchain

Objectives of the study

The objective is to provide immutable data storage , data security , transparency, authenticity and security.

To provide the importance of Car Scrapping thereby providing a hassle-free platform to interact with the scrap dealer

Existing System

According to the norms, the car owner should approach the authorized Regional Transport Officer (RTO) and submit a letter expressing the intent to scrap the car.

Once an agreement has been reached, the scrap dealer will dismantle the car parts and segregate them into iron, plastic, rubber, etc,the chassis number is cut out and submitted to RTO for deregisteration.

After getting the vehicle scrapped, the car owner is supposed to submit the registration certificate along with the chassis number ,an affidavit mentioning that the car is not under any loans, insurance claims or pending court cases.

This traditional method is complex and centralized.

It requires a huge amount of time and manual work which is one of the biggest drawbacks in today’s world of digital technologies.

Proposed System

The proposed system comprehends a private Ethereum blockchain and machine learning technologies.

The blockchain technology helps in acquiring a decentralized system.

It leads to quick and more translucent settlements, as the ledger is automatically updated and can be accessed by each member of the network

Input and Output modules

The scrap dealer registers with his details and wait for approval from the RTO, who in turn authenticates the scrap dealers details and allows the scrap dealer into the network.

The car owner has to register with his details and wait for approval by the scrap dealer as well as verification by RTO

RTO verify both the scrap dealers and car owner. RTO will approve the scrapping request.

Data collection

Data preprocessing

Data modelling

Testing and validation

Front end/Back end /Tool

HTML : The HyperText Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets and scripting languages such as JavaScript.

CSS : Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML.

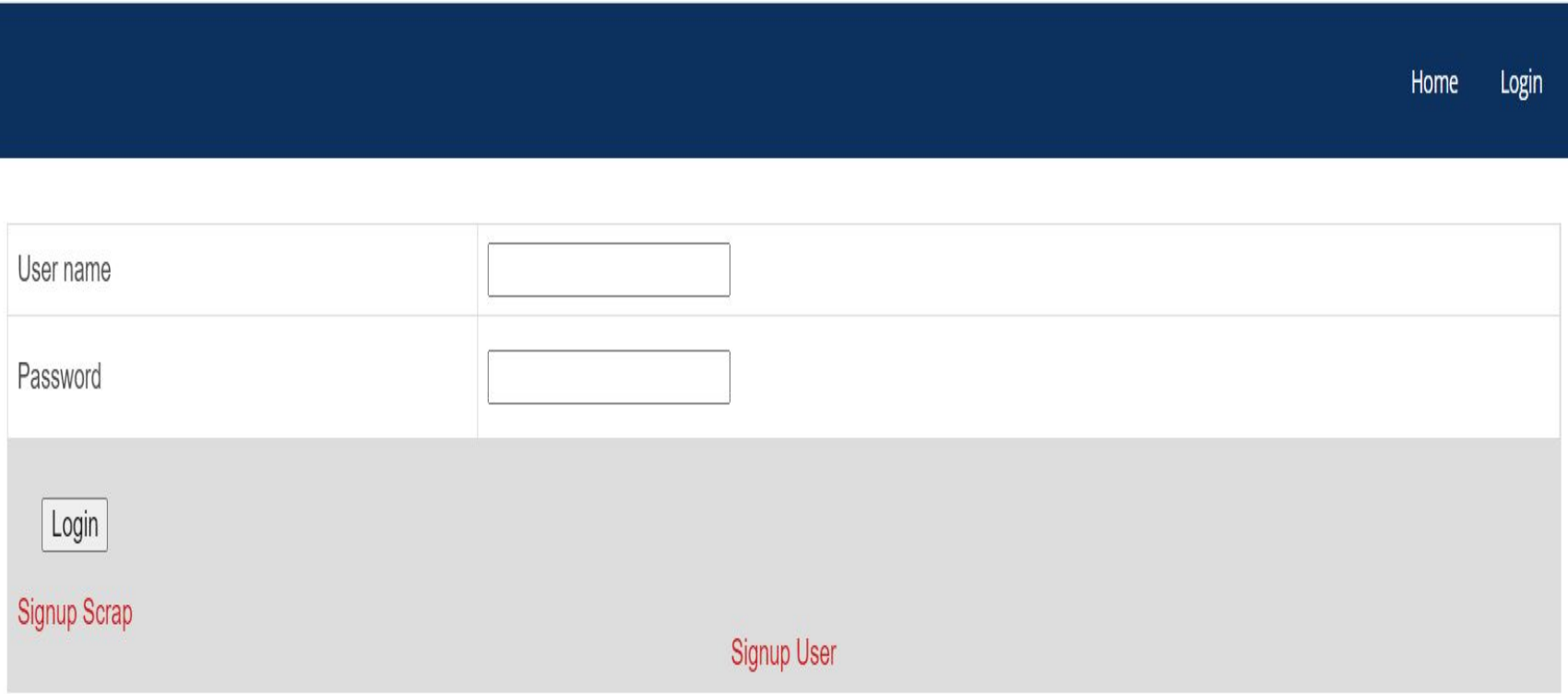
Python : Python is a computer programming language often used to build websites and software, automate tasks, and conduct data analysis.

Ganache : Ganache is used for setting up a personal Ethereum Blockchain for testing your Solidity contracts

Truffle : Truffle is a world-class development environment, testing framework and asset pipeline for blockchains using the Ethereum Virtual Machine (EVM)

Web 3 : Web3 is a new iteration of the world wide web that hosts decentralized apps that run on blockchain technology.

SCREENSHOTS



Scrapper Registration Form

First name :	AKSA
Last name :	THOMAS
Place :	MUVATTUPUZHA
Post :	MUVATTUPUZHA
Pin :	689752
Phone :	9875642189
E-mail Id :	aksa@gmail.com
User name :	aksa
Password :	••••••••• ☐Show Password

Register

Registration Form

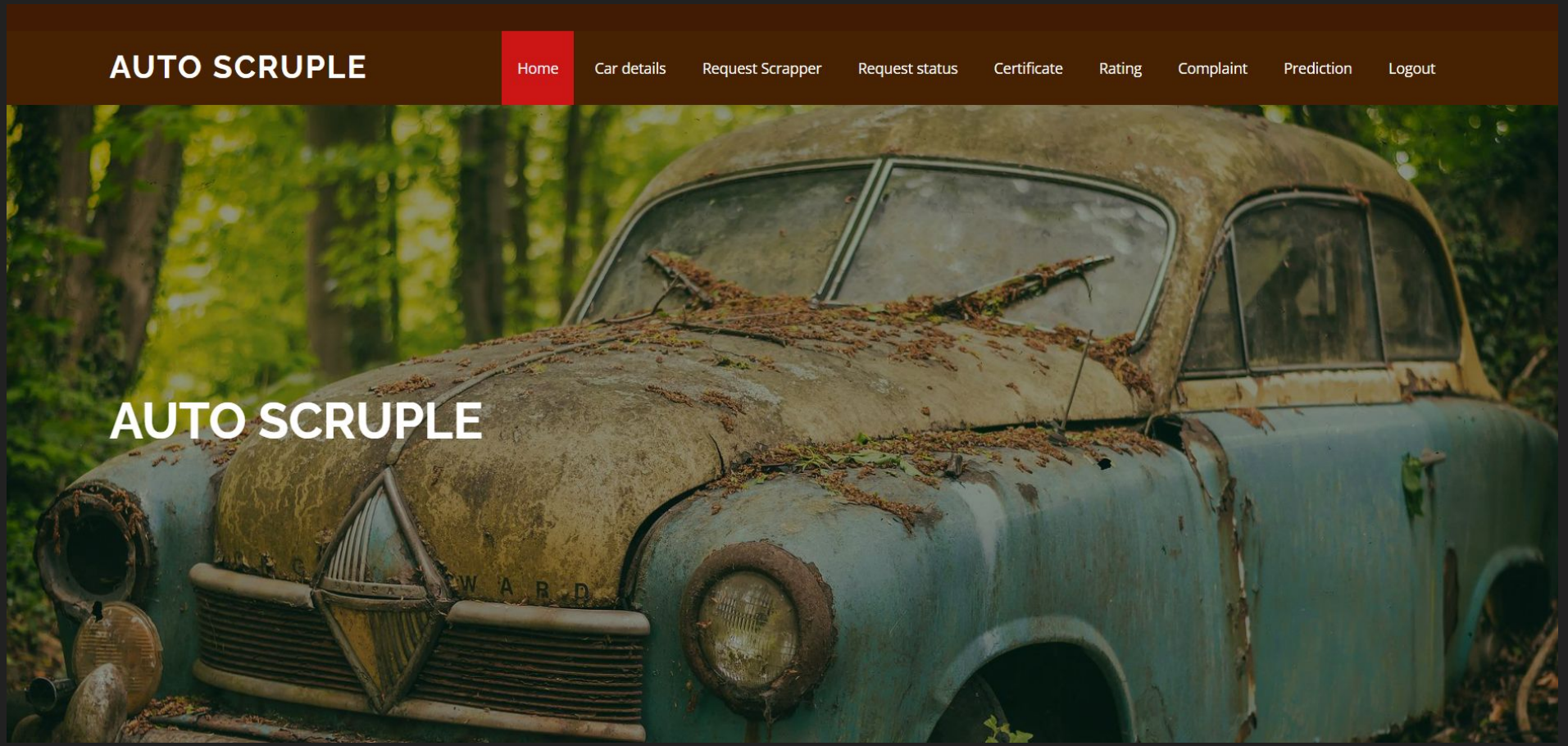
First name :	ARUN
Last name :	RAGHAV
Gender	◉ Male ○ Female
Place :	ELOOR
Post :	ERNAKULAM
Pin :	689412
Phone :	9865223147
E-mail Id :	arun23@gmail.com
User name :	arun
Password :	••••••••• ☐ Show Password

Register

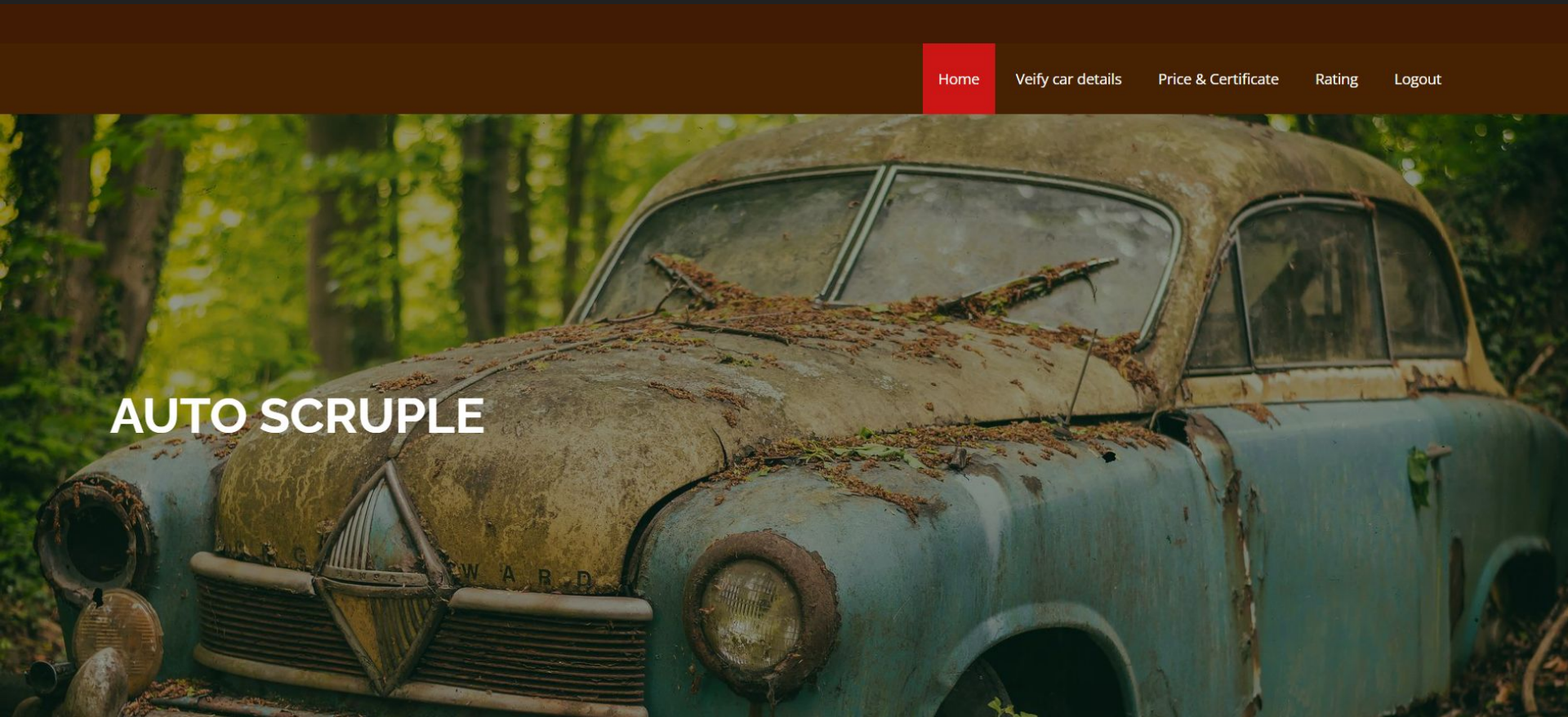
RTO HOME

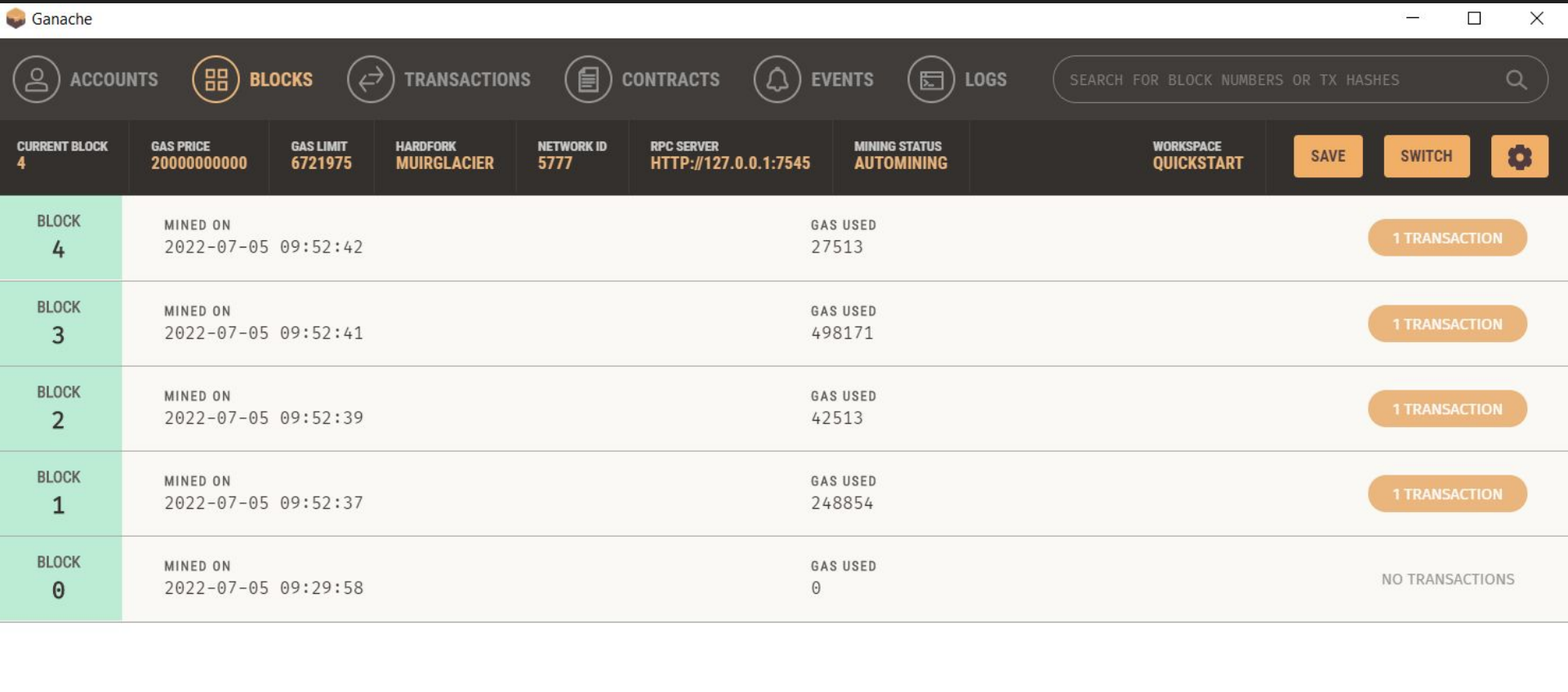
Home | Accept or Reject scrapper | Accepted scrapper | Verify car details | Complaint | Rating | Logout

USER HOME


AUTO SCRUPLE
Home
Car details
Request Scrapper
Request status
Certificate
Rating
Complaint
Prediction
Logout
AUTO SCRUPLE

SCRAPPER HOME




Ganache
ACCOUNTS
BLOCKS
TRANSACTIONS
CONTRACTS
EVENTS
LOGS
SEARCH FOR BLOCK NUMBERS OR TX HASHES
CURRENT BLOCK 4
GAS PRICE 20000000000
GAS LIMIT 6721975
HARDFORK MUIRGLACIER
NETWORK ID 5777
RPC SERVER HTTP://127.0.0.1:7545
MINING STATUS AUTOMINING
WORKSPACE QUICKSTART
SAVE
SWITCH
BLOCK 4
MINED ON 2022-07-05 09:52:42
GAS USED 27513
1 TRANSACTION
BLOCK 3
MINED ON 2022-07-05 09:52:41
GAS USED 498171
1 TRANSACTION
BLOCK 2
MINED ON 2022-07-05 09:52:39
GAS USED 42513
1 TRANSACTION
BLOCK 1
MINED ON 2022-07-05 09:52:37
GAS USED 248854
1 TRANSACTION
BLOCK 0
MINED ON 2022-07-05 09:29:58
GAS USED 0
NO TRANSACTIONS

THANK YOU