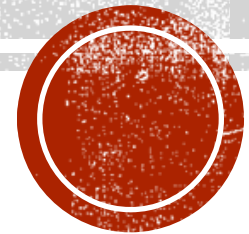


BIT-CONTRACTS : BLOCKCHAIN BASED SMART CONTRACT

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ABSTRACT

- This project presents an efficient smart contract solution for buying and selling functionality of a car.
- This provides the customer a safer digital access, verification Or enforce Or performance of contract.
- It allows individuals to share their personal, underused cars in a completely decentralized manner, annulling the need of an intermediary.
- Our product BitContract helps to setup a decentralized system between the registered parties eliminating the cost of middle man, which saves money, time and conflict. This product would setup a transparency between the partnere



INTRODUCTION

- A smart contract is a computer protocol intended to digitally facilitate, verify, or enforce the negotiation or performance of a contract. Smart contracts allow the performance of credible transactions without third parties.
- It will create an easy user interface which helps the customer an easy access to reach the car sellers
- It ensures that once a data is entered and authenticated in the system it cannot be tampered by any means.
- It ensures that there are no extra charges put on the customer and hence removing the cost of middle man.
- This website is based on the blockchain system
- Blockchain is a transaction ledger that maintains identical copies across each member computer within a network , once an information is placed inside a block of the block chain, the tampering or changing of it is impossible.



AIM OF PROJECT

- The aim is to maintain an easy user interface and a better connection and transparency between buyer and seller.
- It aims to eliminate middle man and establish trust and reliability.



OBJECTIVES OF THE PROJECT

The objectives of the systems development and event management are as follows:

- It provides fault-tolerance, immutability, transparency and full traceability of the stored transaction records, as well as coherent digital representations of physical assets and autonomous transaction executions.
- It is essential for the stored records to be tamper-proof, while the best case would be if each actor issuing transactions could do that without relying on any centralized third-party intermediary.



Literature Review

Sr. No.	Title	Gap Identified	Key Findings
1.	Blockchain: A Distributed solution to automotive security and privacy	<ul style="list-style-type: none">•Disables tracking of cars.•Not showing information of buyer and seller to each other.•Third party is involved.•Works for interconnected smart vehicles.	<ul style="list-style-type: none">•Wireless remote software updates.•Insurance fees.
2.	Blockchain based Internet of Vehicles: Distributed architecture and performance analysis	<ul style="list-style-type: none">•Generally used for vehicle networking.•Shows similar grade cars with different pricing.	<ul style="list-style-type: none">•Intelligent use of database for information and get new business.
3.	Blockchain can work for car insurance: Using smart contracts and sensors to provide on demand coverage	<ul style="list-style-type: none">•Sensors used to identify the damage and get on the price.•Lower policy modification cost and limit insurance fraud.	<ul style="list-style-type: none">•Sensors convert picture into alphanumeric and saves it safely.



LITERATURE REVIEW

Sr. No.	Title	Gap Identified	Key findings
4	Blockchains Can Work for Car Insurance: Using Smart Contracts and Sensors to Provide On-Demand Coverage	<ul style="list-style-type: none">• semi automatically activate/deactivate car insurance coverage .• dynamically change the status of specific insurance coverage.• collect passengers and the vehicles data.• lower policy modification costs and limit insurance fraud.	<ul style="list-style-type: none">• mobile application (app) and a portable electronic device• sensors installed on a vehicle could be combined to semi automatically activate/deactivate car insurance
5	The Multimedia Blockchain: A Distributed and Tamper-Proof Media Transaction Framework	<ul style="list-style-type: none">• A distributed and tamper proof media transaction framework• a novel watermarking based Multimedia Blockchain framework that can address issue of <u>tampering</u> of data.	<ul style="list-style-type: none">• Based on blockchain model• The unique watermark information contains two pieces of information:<ul style="list-style-type: none">a) a cryptographic hashb) an image hash.



SCOPE OF PROJECT

The scope of the project is as follows:

- Easy buying and selling procedure of functionality of car.
- Eliminating the middle man.
- Reducing use of paper and hence creating an eco friendly way of buying and selling a car.
- Creating a platform for buyer and sellers to meet with high level transparency.



EXISTING SYSTEM

Existing system is not computerized and it is very difficult to manage and inform any details regarding contract. In addition to this it is more paper work and time consuming as well as expensive procedure. We have to face high-level risk to maintain it. In this existing system each user cannot get information about the money. In this system, data is not secured and low level of transparency.



DISADVANTAGES OF EXISTING SYSTEM

- Lot of paper work required.
- Difficult to maintain the records of transactions
- Low transparency
- High risk of fraud
- Man power was more.
- Time consuming process.
- User cannot access information easily from anytime anywhere.

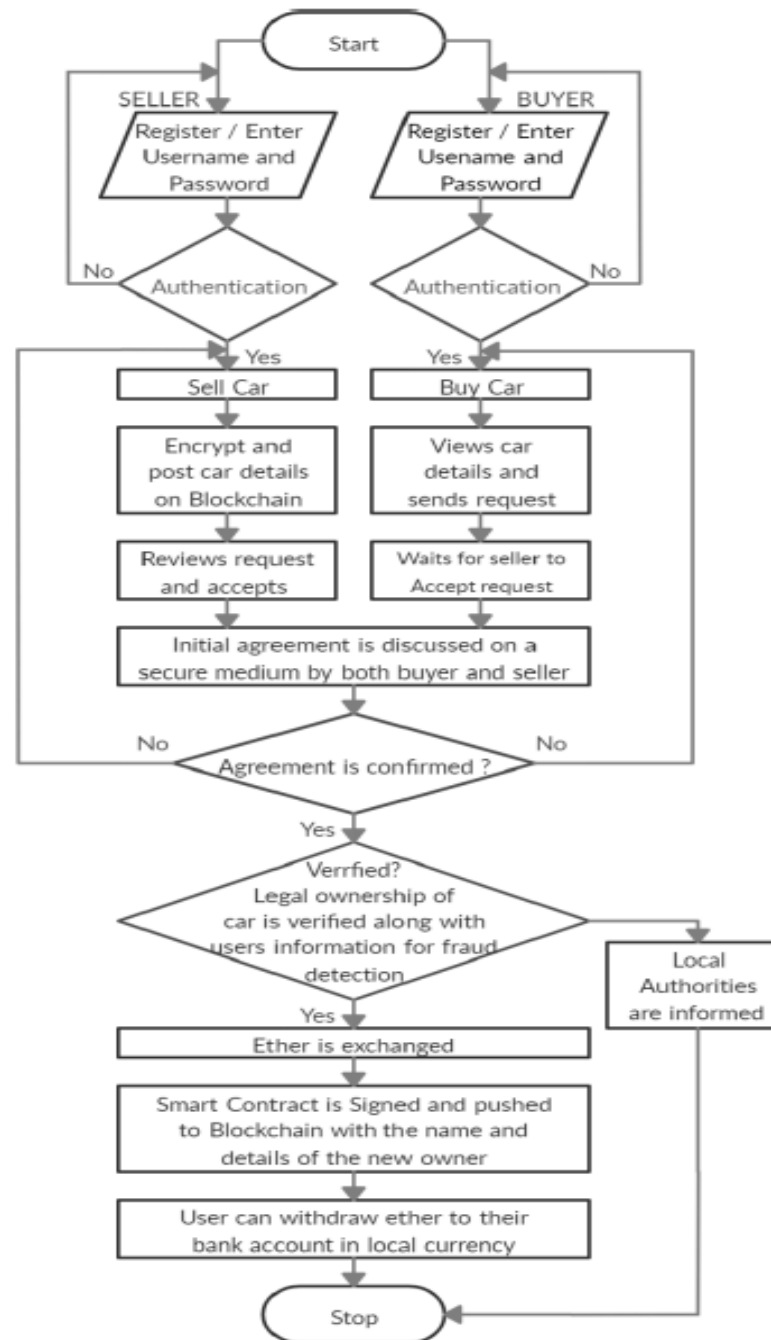


PROPOSED SYSTEM

- This proposed website for smart contract using block chain is very helpful technology.
- In this application we are providing all transparency regarding all product and transactions.
- To understand use of this application considers the flow of actions happening, by this application user can register and login.
- This website helps to setup a decentralized system between the registered parties eliminating the cost of middle man, which saves money, time and conflict.



FLOW-CHART



ADVANTAGES OF PROPOSED SYSTEM

- User friendly.
- User can get all information about product easily through android application.
- Any user of this android application gets any information at anytime, anywhere through this android application.
- Transparency should be maintained.
- Reduce lots of paper work.



HARDWARE AND SOFTWARE REQUIREMENT

HARDWARE:

- Processor: Intel i3 and more.
- RAM: 4GB or more.
- Hard disk: 16 GB or more .
- Android device.

SOFTWARE:

- Operating system :
windows2000/XP/7/8/10
- Apache tomcat server
- Frontend :-java(jsp/servlet)
- Backend:- MYSQL
- Eclipse
- Android SDK



FUTURE SCOPE

As future work we would like to advance our system design and implementation to work with fully encrypted booking details, including the price per day, price per extra day and required number of days which are used for calculation of payments. Another potential direction could be to adapt BitContracts so that it supports the use of advanced cryptographic primitives such as zero-knowledge proofs

- Can create real time application.
- Availability of notification.



CONCLUSION


This project presents a fully decentralized car booking and payments system and provides Smart Contract solutions based on Blockchain Technologies. This system can be incorporated with car access provision protocols to provide a secure and private car sharing environment without the need of any intermediary. We have shown that BitContracts provides all major functionalities that are required for a car sharing platform, and provides security and privacy by design.



Smart Contract

Smart Contract

localhost:8080/SmartContract/login.jsp

 SMART CONTRACT

HOME


THE BIKE SHOP

BICYCLESPARTSACCESSORIESEXTRAS

Activate Windows
Go to Settings to activate Windows.

Connecting...

Type here to search



ENG15:4108-08-2019

Login Form

Enter EmailId

Enter Password

Log in

[Register](#)

BUY NOW



BUY NOW



BUY NOW



BUY NOW



BUY NOW



BUY NOW





Add New Car

Please add new vehicle information

 No file chosen

REFERENCE

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THANK YOU!

