Crypto Currency Based 24/7 Online Food Delivery System

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Abstract— everyone needs food to survive, usually people eat three times a day and there are some who needs a fourth meal. Basically food is the only thing that can be sold anywhere and everywhere. This industry is benefit able not only for hotel owners but also food chain suppliers and food chain manufactures as well as for the customers and according to the recent changes in this food industry, there are more and more complicated challenges and innovations that are getting evolved. Cashless payments are nowadays are becoming more popular and digital currencies like Bit coin, is not used for payments on transaction conformation. So we modified a Bit coin payment System for fast transactions. Today, we are looking at the number of online payments that are mainly going with cashless method. In last few years the online payment methods like BHIM, Phone Pe, Google pay Paytm have a simple look and the transactions are fast and safe money. These approaches commonly rely on central trust authority for processing. Bit coin transfer is a peer-to-peer network doesn't rely on central trust but provides reliable money transfer. In this paper, we present a concept that improves the new technique of transferring money in bit coin network.

Keywords—*24/7 online food ordering system, Database management, crypto currency wallet.*

I. INTRODUCTION

Bangalore has a population of 12 million and according to survey 20% of the population need a fourth meal so we introduce 24/7 food delivery system. The customer will have the access to interface where he can order food online from restaurants as well as mess services .

The menu of the food will be put in the website and user can signup and login to our website and the users/customers can select their items accordingly and can place the order. Also, customers can call their perspective delivery boy once they order their food they get a notification according to their specific location Users can see the reviews the food items and rate the food items and the restaurants according to their likeliness also the feedback system is provided. We added recommendation system for the customers regarding to their history what they had according to that we suggest them the items and best restaurants where they can try a new taste. For the starting implementation of the system we added cash-on-delivery and we introduce crypto wallet. Separate accounts are maintained for each user for more secured ordering by providing an ID and a password.

II. RELATED WORK

[2].Have a snack, pay with bit coin: Cashless payments and digital currencies like bit coin are increasingly used as means of payments. However due to delay of transactions conformation in bit coin, it is not used for payments that relay on quick transaction conformation. We find a snack wending machine to accept bit coin payment and make use of fast transaction conformation. [3] Development of an SMS system used to access bit coin wallets: If a person wants to use bit coin they need to have a bit-coin wallet which stores the public and private keys used when sending and receiving bit-coin. This paper presents a simplified short message service (SMS) system that can be used by people who don't have access to these technologies. [4] Net food: It is an ordering management software for food delivery companies and delivery orientation system that allows clients to order from multiple restaurants at the same time. The article presents the architecture and the implementation of the software system. The technologies, tools and methods used during the development process are also described. [5] In store payment using Bit coin: Crypto currency payments would require much fast transaction verification that current solution provide since customer are likely not prepared to wait a very long time for the purchase to be accepted by the store. [6] Spatial crowd sourcing: This paper builds a food delivery network using spatial crowd sourcing. It investigates the participation of taxis to support on demand take-out food delivery. It includes the construction algorithm and the Adaptive Large Neighbourhood Search (ALNS) algorithm based on simulated annealing, is proposed to solve the problem. [7] A two stage solution procedure for food

delivery decisions in cities are with circular transportation networks: This paper analyses the decision problem of delivering fresh food in cities where the transportation systems are made up of several hypothetical parallel loops. We develop a two-stage solution procedure that integrates the search algorithm search algorithms and an integer programming model. The US department of treasury [8] and the FBI [9], Bit coin received the needed legal status that allows its adoption at a large scale. These reports were preceded by a first analysis of the legality of Bit coin by Elias [10] in 2011.

III.   BITCOINS

Bit coin was introduced by Satoshi Nakamoto in 2008 as a p2p based digital currency[1]. Basically, cashless payments between two nodes p2p require a base medium something similar to third party.The node implementation system that help to track the transactions of the account and monitor the transaction details of the account holder.

In expectation, it almost takes about 10 minutes for the network to reach consensus about a set of transactions. A block chain, originally block chain, is growing list of records, called blocks, which are linked using cryptography [11]. There will be over 21 million Bit coin (BTC) ever to be created. As of January 2018 it is the most widely used alternative currency [12][13]

IV. CRYPTO WALLETS

Crypto currency wallets are like the safety deposit boxes we use to store our most treasured possessions and assets be they bond certificates, jewellery or a will. None of us can afford to lose the keys of the safety box because we could lose ownership of our valuables if they wind up in the wrong hands. Crypto currency wallets work almost the same as the safety deposit box instead of physical keys we carefully guard our digital keys. Commonly known as private keys or master keys, digital keys take form of hexadecimal codes, something like this:
"2940447a4ed5eef7f46bcc185cb2f21d2a8bffcde5418156a9d 1a44aa137558.

In first glance itself, it comes over daunting until you find out it is flexible enough to be noted down, printed and typed on document, converted to image form or even memorized. Therefore, when you are holding digital assets such as ICO tokens and crypto currencies in a wallet, there is no excuse for not taking appropriate steps to secure your private key backups. You will need your private key which is something similar to your login details of your bank account to access your assets and authorize transfers from your wallet. So never lose them, don't share them with anyone and always keep them somewhere safe where you can retrieve when

necessary. A public key which is something similar to your bank account number allows for other wallets to make payments to the wallet's address, whereas a private key enables the spending of crypto currency from that address [14]. Wallets can either be digital apps or be hardware based [15].

V.   PROPOSED SYSTEM

Crypto currency based 24/7 Online Food Ordering System is proposed. The customer can login to the website and can order their food according to their wish and there are payment options and one of the payment option is blockchain wallet. The blockchain is a technology used as something similar to our bank accounts where the user of the blockchain wallet can have access to his private key which is something similar to his login details of his bank account and that private key will be in mnemonic code if he loses it he can't get access to his blockchain wallet, once the user passed on from private key he will be having a public key which is similar to his bank account. The holder can send funds to the vendor by asking him his public key.

VI. METHODOLOGY

We introduced crypto currency based 24/7 online food deliver system completely of food industry but we are completely taking our payment method to next level.

- We have created a website for the customers or the users to access the account through their personnal login details like mail id and password.
- The details of the users will be stored in the database
- A user can check the food items in the website and can select their items accordingly.
- The selected item will be sent to the cart page.
- In the cart page the user will have to option to increase the quantity of the selected items.
- Once the users selects the number of the items he will be directed to the payment page.
- In the payment page the customer will have payment option..
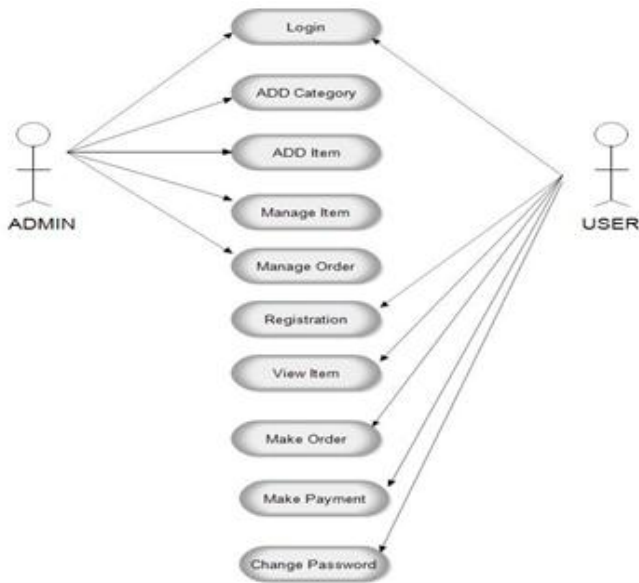- There are two payment options: cash-on-delivery and crypto wallets.

Fig. 1 Use case diadram

- The crypto wallets.
- They work completely on the blockchain technology.
- The block chain is something similar to the bank accounts.
- The block chain technology monitors the balances the sending and receiving of transactions of the wallet holder.
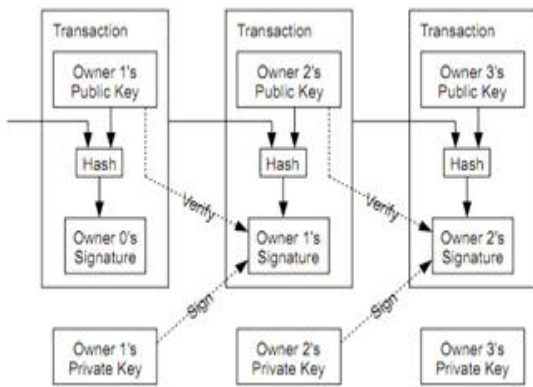

Fig. 2

- A user can have access to the wallet by entering his personal details
- The details of the users will be stored in the database.
- Once the person gets access to the wallet here come the security page.
- He will be getting a private key, this private ket is something similar to his login details which is highly safe and secured.
- Once the users enters the private key he will be directed to the wallet.

- There will be a option of converting the normal currency to digital currency.
- The user will have get a public key which is in mnemonic code and will have a QR code to receive transactions and he will also have the option to send the transactions.

Share this code to start chatting

0x046ca833d0686ceef2782422e48130e7d653
455e927e581b4fccfbdbbace27c0446994dc3e
86e553e16e4f214e0da932cb9a71a37b578550f
27f7ee6e8a12354a9

Fig. 3

- The customer can scan the QR code of the vendor to pay him in crypto currency
- The vendor will have the option to convert the digital currency to normal currency.
- Once the payment is done the details of the orders are stored in database.
- We have admin login page to manage the order details, item and restaurants.
- Once the admin get access to the admin page the admin can see the placed order details and feedback of customers.
- Based on user feedback the admin can remove the restaurants.

VII. CONCLUSION AND FUTURE SCOPE

The aim of our project is to help the people get their fourth meal to the zonal areas where there is no delivery system. We have added crypto wallets and crypto exchange in this interface where people get to know more about block chain technology and crypto currency as they are the safe and secure transactions as this is the new way to send and receive payment in digital currency.

- Restaurant management
- To develop an Android application
- Adding security protocols.

VIII.   RESULTS

We coded in html, css and java script for front end and database SQL for backend and they are running successfully. We used servlet for middleware. Using Java we successfully created crypto wallet and successfully linked it to our website. We used some of the jar files and we successfully created unique QR Code for every user.

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