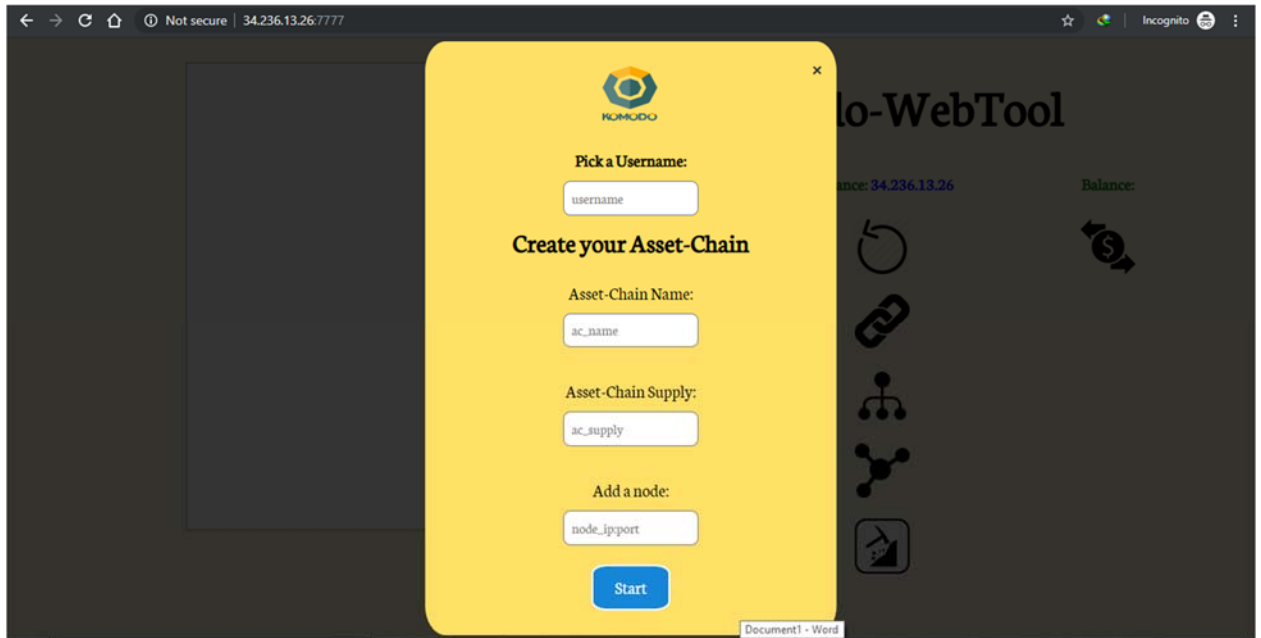# Blockchain-Utility

Rank #1

Komodo-WebApp by Vaibhav Murkute**:** (Category: **Utility** app for Blockchain)

Email: vaibhav.murkute@mavs.uta.edu
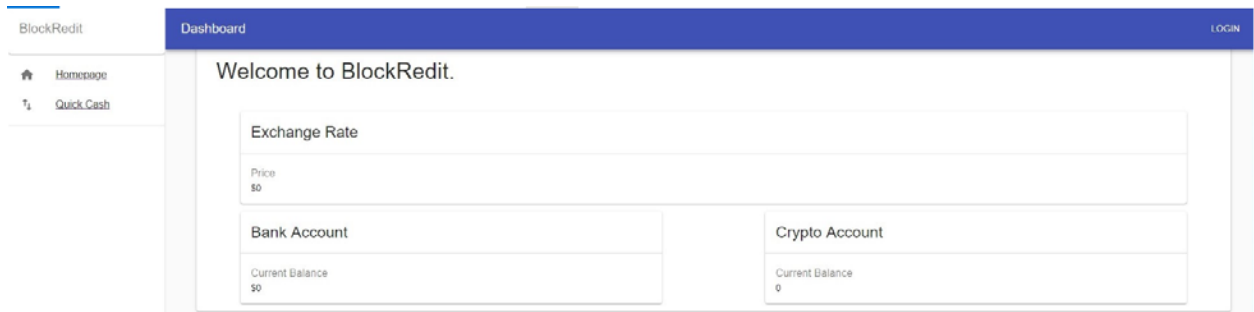
Blockchain: Komodo

Features:

- This tool can be used as an Online wallet for a Komodo-based asset-chains.
- Major functionalities:
  - Create a new chain
  - Connect to existing chain on the server
  - Get wallet information
  - Get network information
  - Send coins to address
  - Add new nodes to this chain
  - List address groupings
  - Issue a new wallet address
  - Enable mining on this instance
  - Get transaction details
  - Remotely Stop the chain

Rank #2

BlockRedit by Mohammad Ali: (Category: Utility Application for Blockchain)

Email: ali.mohamedi2@mavs.uta.edu

Blockchain: Komodo

Features:

- Users can use this app to convert cash to crypto-coins. (For cash, it has to be linked to bank account).
- This project can be extended to create a Payment Gateway or Coin conversion portal to exchange various coins, (like atomic swaps in Komodo).
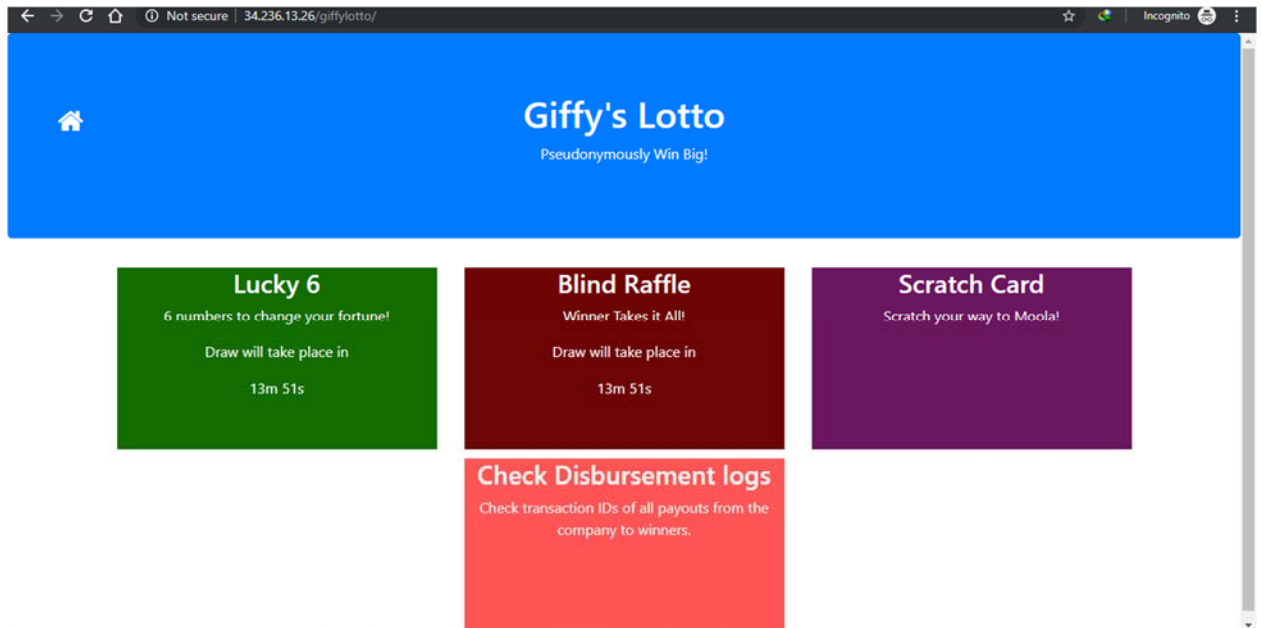
Blockchain-Game

Rank #1

Giffy's Lotto (Lotto Raffle) by Giffy Chris: (Category: **Trivia Game** with Blockchain)

Email: giffy.chris@mavs.uta.edu

Blockchain: Komodo

Features:
- Trivia-gambling game, with 3 subparts:
- **Lucky 6 and Blind Raffle:** Players buy a ticket with GIFFYCOINs for a lucky draw that happens every 15 mins. If Player's ticket wins, he gets the wining reward.
- **Scratch Card:** Player can buy a scratch card, which may have some coin reward on it.
- App also checks whether a previous transaction-id is not being used multiple times.
- **Disbursement logs:** Anyone can check the disbursement logs, which shows previous coin disbursements.

Rank #2

Crypto-Rock-Paper-Scissor by Lalit Jayavantt Goski

Email: lalitjayavantt.goski@mavs.uta.edu

Blockchain: Komodo

Features:

- Players can chat with each other
- Winner will be awarded coins
- Players cannot see each other's screen.
- A player can withdraw refund or wait more to get an opponent.

Rank #2

Hangman by Binaya Khadka: (Category: **Trivia Game** with Blockchain)

Email: binaya.khadka@mavs.uta.edu
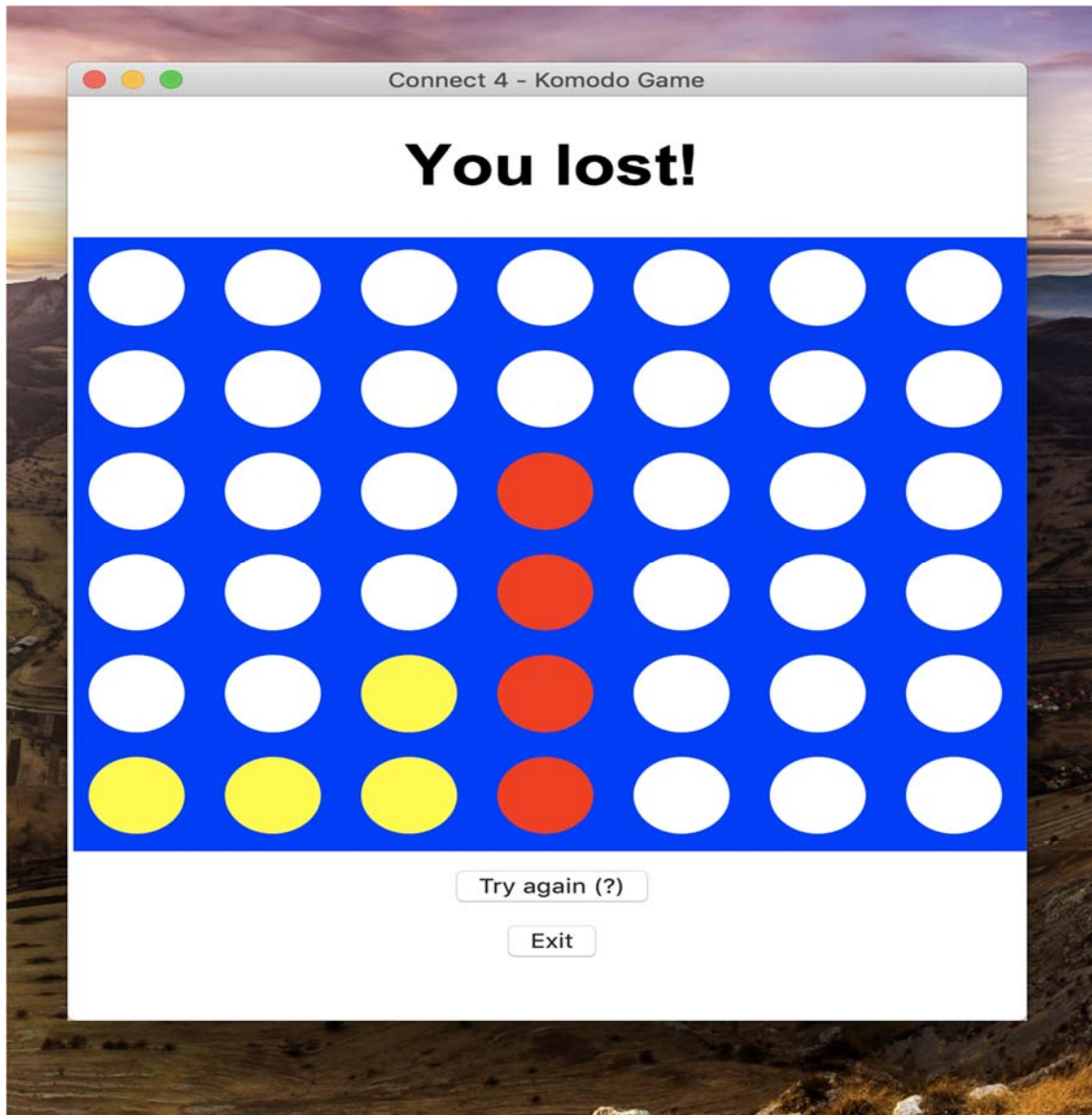
Blockchain: Komodo

Features:

- A trivia game where player needs to guess Movie name or Movie Dialogues or Songs. If players make certain number of mistakes while guessing, they lose.
- Winner gets the wining reward (coins).
- Good GUI, need to work on chain-integration

Rank #3

Connect 4-Komodo by Sidharth Raj

Email: sidharth.raj@mavs.uta.edu

Blockchain: Komodo

Features:

- Connect4 game with AI
- Competitive match with AI
- Transaction using WALRUSCOIN Komodo Chain.

Blockchain-Business

Rank #1

Wine & Cheese by Aman Arora: (Category: **Business** Application for Blockchain):

Email: aman.arora@mavs.uta.edu

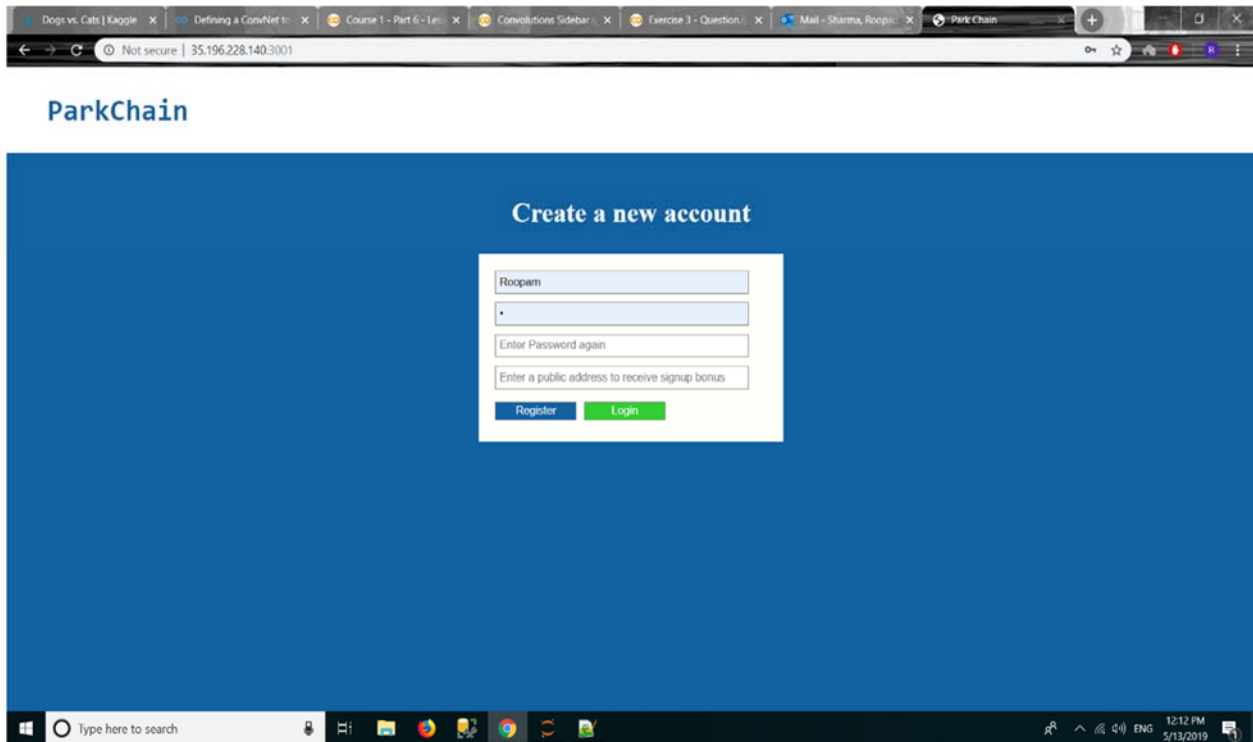**Blockchain:** Ethereum

Features:
- Built on Ethereum, Users can check the origin of Wine and Cheese
- User puts-in product parameters on a web app which creates an hash and puts it on the blockchain.
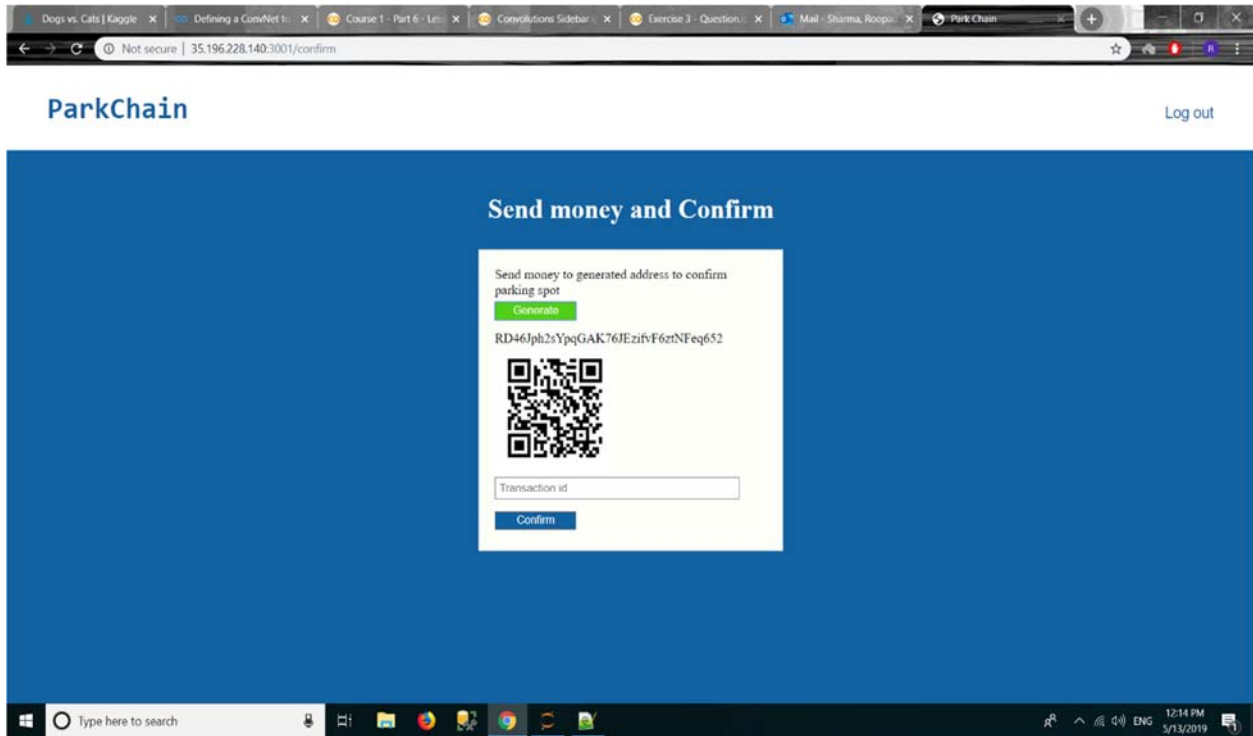- Language used: Solidity

Rank #1

ParkChain by Roopam Sharma

Email: roopam.sharma@mavs.uta.edu
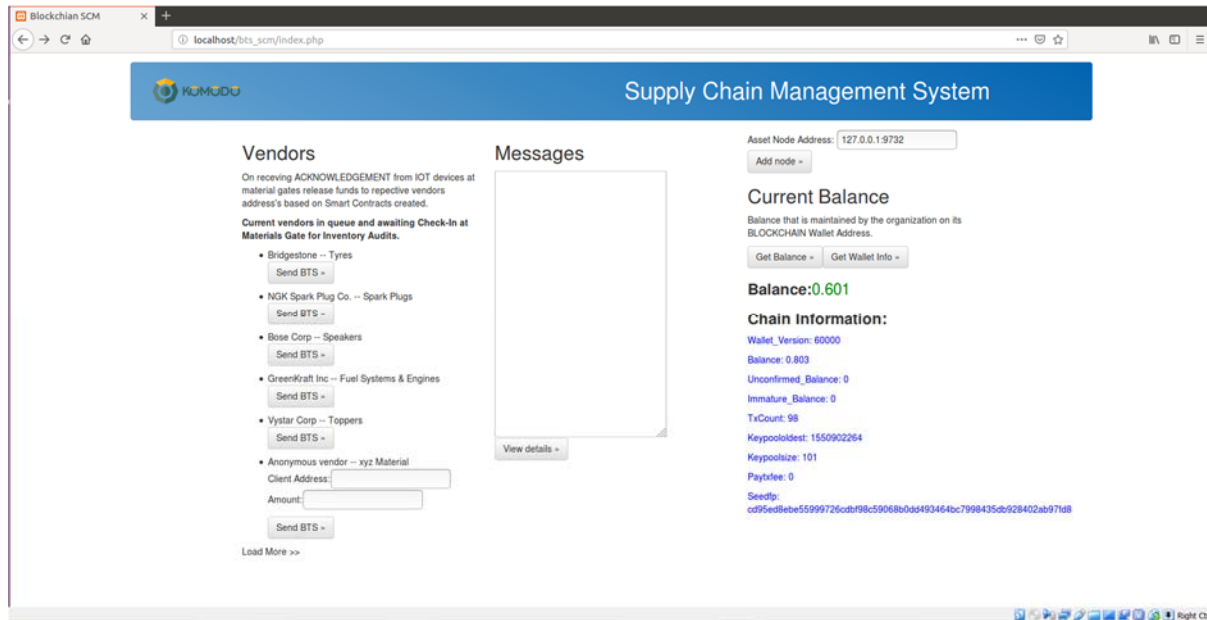
Blockchain: Komodo

Features:

- People can park in parking spots and pay by using bitcoins
- Transaction Id Validation (Parking reservation successful only if valid transaction Id is provided)
- New address can be generated each time generate button is clicked for sending money.
- QR code generated for the Mobile Apps
- People can receive sign up bonus while registration.
- Parking history is maintained.
- Users can register, login and logout from system

Rank #2

BLOCKCHAIN IN IOT AND SUPPLY CHAIN by Chirag Shah

Email: chiraghareshkum.shah@mavs.uta.edu

Blockchain: Komodo

Features:

- The combination of IoT and Blockchain will effectively reduce the friction in Supply Chain Management mainly eliminating central third-party entities.
- Currently, simple transactions involved in industries with multiple clients/vendors have lengthy procedures. These can be automated using Smart Contracts and distributed ledgers. The contracts can be recorded publicly for reliability.
- End-2-End visibility across multiple clients in supply chains is possible. Blockchain based framework will ensure that all the involved parties/clients can access the data in real-time.
- It is also possible to capture the information or data that is received from IoT devices such time, location, etc. to further complement data integrity and security.
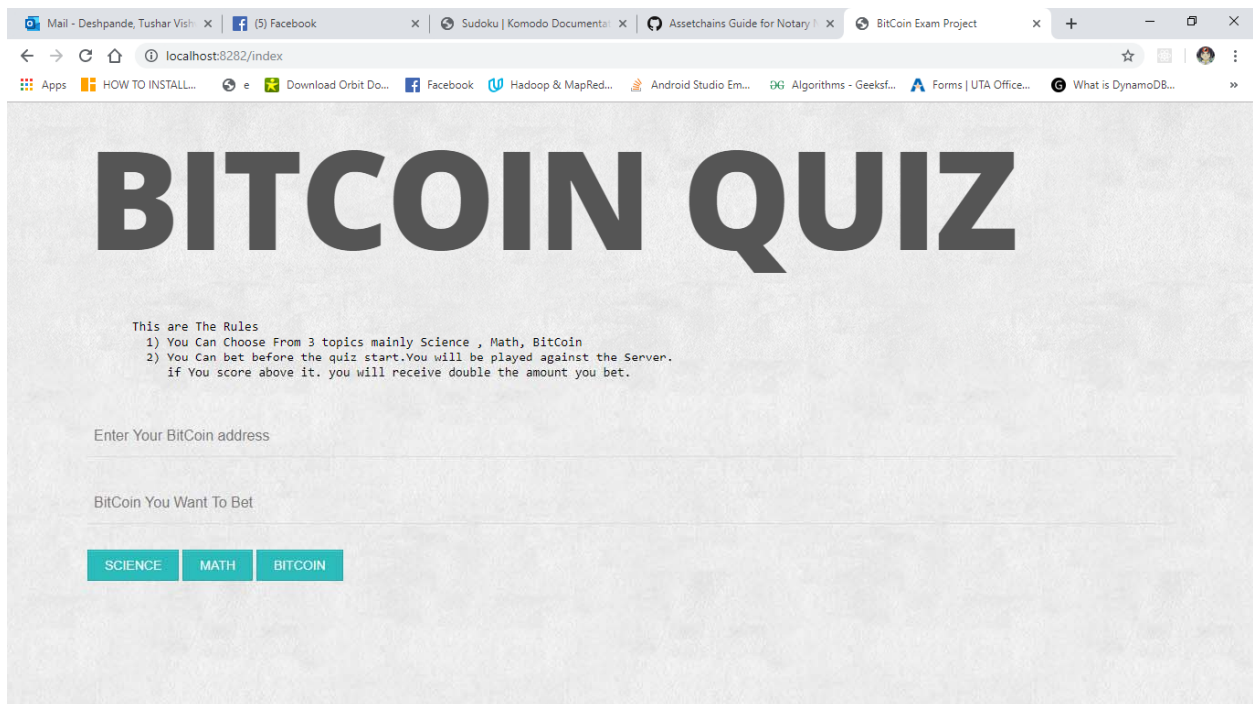
Blockchain-Educational

Rank #1

Bitcoin Quiz by Tushar Vishvas Deshpande

Email: tusharvishvas.deshpande@mavs.uta.edu

Blockchain: Komodo

Features:

- Student will receive coins based on correct answers provided for a quiz.
- The coin transaction uses Komodo.
- Users can take a test and obtain coins if they score above some pre-determined score.
- User can choose from different tests.