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
    o Remotely Stop the chain
Rank #2

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

**Email:** ali.mohamedi2@mavs.uta.edu

**Blockchain:** Komodo

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**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](mailto:lalitjayavantt.goski@mavs.uta.edu)

**Blockchain:** Komodo

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**CRYPTO-RPS: ROCK, PAPER, SCISSORS!**

Submit your name and wallet address to begin the game. Select either rock, paper, or scissors when prompted. Your opponent will do the same. Rock beats scissors, scissors beats paper, and paper beats rock. Good luck, and have fun!

![Game Interface](image)

**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](mailto:binaya.khadka@mavs.uta.edu)

**Blockchain:** Komodo

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**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](mailto:sidharth.raj@mavs.uta.edu)

**Blockchain:** Komodo

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**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

Wine Chain

Register New Yard

<table>
<thead>
<tr>
<th>Yard Id</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>WineYard Name</td>
<td>Aman's Winery</td>
</tr>
<tr>
<td>Yard Description</td>
<td>Great WineYard in middle of Texas</td>
</tr>
<tr>
<td>Yard Location</td>
<td>Arlington</td>
</tr>
<tr>
<td>Yard Longitude</td>
<td>-98.20070</td>
</tr>
<tr>
<td>Yard Latitude</td>
<td>32.541499</td>
</tr>
</tbody>
</table>

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.
Blockchain-Utility
Summer 2019

Rank #1

Project Name: Crypto-Ride
Author: Hafsa Fatima
E-mail: hafsa.fatima@mavs.uta.edu
Blockchain Platform: Komodo
Category: Utility application of blockchain

Features:
- Ride-share with crypto-coins
- Join as a rider or passenger and pay with coins for shared rides
- Good and scalable idea
- Accessible on Mobile devices
- Integration with Google maps
Rank #2

**Project Name:** E-voting  
**Author:** Nikshith Singh Varma  
**E-mail:** nikshithsingh.varma@mavs.uta.edu  
**Blockchain Platform:** Komodo  
**Category:** Utility application of blockchain

**Features:**
- Voters registers to Registration authority
- E-voting application provides voters with key
- The idea of combine blockchain and voting system is novel
Rank #3

**Project Name:** Wheel of Fortune  
**Author:** Shoan Pinto  
**E-mail:** shoanherman.pinto@mavs.uta.edu  
**Blockchain Platform:** Komodo  
**Category:** Game with blockchain

**Features:**
- User can bet coins on Roulette wheel number and win coins for each match
- **Major functionalities:** 1) Player needs to deposit coins; 2) Player bets money and rolls the wheel of fortune; 3) User can withdraw to his wallet by providing the address
Rank #4

Project Name: Komodo-GUI
Author: Rohit Santosh Nagvenkar
E-mail: rohitsantosh.nagvenkar@mavs.uta.edu
Blockchain Platform: Komodo
Category: Utility application and Game with blockchain

Features:
- GUI for komodo with other utilities like TicTacToe Game and Chat
- Incorporating multiple commands and interacting with different users
- Able to run komodo API commands such as adding a node, getaddress and walletinfo
- Mine the node by playing a mini game with different users
Rank #5

**Project Name:** RAM-CHAIN  
**Author:** Venkata Sai Manoj Twarakavi  
**E-mail:** venkatasaimanoj.twarakavi@mavs.uta.edu  
**Blockchain Platform:** Komodo  
**Category:** Utility application of blockchain

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**Features:**
- Created an online portal to pay apartment rents through coins
- Payment of Rent for apartments
- Apartment wise rent
- Decentralized payment for all in house tenants
- Permanent record of tenants’ rental payment because of the Blockchain Backend