

# Exploring the Potential of Fantasy Sports Gaming with Cryptocurrency

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**Abstract** - Despite the fact those crypto currencies have drawn a lot of users and investors. Play-to-earn economies have also been rather popular in blockchain technology over time. Fantasy sports games have become incredibly popular. A fantasy sport is a simulation game in which players take on the role of owners to create and oversee fictional teams or groups of tokens that engage in competition. The gaming platform "Crypto11" uses the blockchain technology itself to enable fantasy gaming so that players can play and win large. An Avalanche connection makes fantasy gaming easier, faster, and smoother than it has in the past. Users of this platform will be given a set budget from which to choose a selection of tokens. Let's say your portfolio of crypto tokens does astronomically well. The amount of your award will then be determined by how well those tokens perform. Your knowledge of the stock and cryptocurrency markets will be tested by this platform. 'Crypto 11' is your chance to win large money if you think you understand how the market functions and how a few cryptocurrencies will fare. You can converse with other individuals while playing on this platform. Using a combination of Greedy and Knapsack Algorithms to prescribe the combination of 11 Cryptocurrencies. It provides a range of gaming options, many of which let you immediately win rewards.

**Keywords:** Cryptocurrencies, Greedy, Knapsack, Blockchain technology, Fantasy Sports, Tokens, Competition, Crypto11, Portfolio.

## I. INTRODUCTION

Crypto11 is the best online cryptocurrency fantasy game experience for cryptocurrency fans is the motivation Cryptocurrencies and fantasy are the foundation of our identity. We are building a platform that will let real bitcoin enthusiasts fulfil their ambitions. Our goal is to increase user competency so that they can play fantasy games in an entirely secure setting. There is Crypto11 for individuals who are curious about cryptocurrency! We believe that one excellent reason to play fantasy games is the potential for financial reward, but it's not the only one. Imagination is enjoyable since it increases the thrill of witnessing a competition.

Crypto11's main objectives are to please users, solidify their position as the most dependable fantasy gaming platform, and give them the opportunity to make money with their skills.

Cryptocurrencies have become increasingly popular in recent years, and with their rise, the demand for understanding and analysing them has grown exponentially. To meet this need, a new fantasy sports platform has been developed that combines the excitement of gaming with the ability to learn and predict the behavior of cryptocurrencies. This platform offers users the opportunity to make predictions and win money based on the performance of a carefully curated selection of 11 cryptocurrencies.

The selection of these currencies is determined using a combination of Greedy and Knapsack algorithms, which prescribe the most effective combination for optimal performance. Through this innovative approach, users can gain valuable insights into the world of cryptocurrencies while enjoying the thrill of competition and the potential for monetary rewards. Fantasy sport is an increasingly significant social phenomenon. It is played by more than 13 crores Indian and by millions of others worldwide. As an industry, it has been estimated at between INR 34,000 crores market and its participants are those particularly attractive to marketers: young professionals, who are college-educated. Over the past five years, the industry's reach has rapidly expanded to become the largest in the world, and in our sports-obsessed nation, client acquisition is only accelerating.

## II. WORKING PRINCIPLES OF CRYPTOCURRENCIES

A cryptocurrency is a peer-to-peer digital exchange system in which currency units are created and transferred using cryptographic methods. Using this method, transactions are distributed verified without the use of a centralised authority. Transaction verification ensures transaction amounts, as well as whether the payer holds the currency or is simply trying to spend it, while also making sure that no additional currency units are used. Mining is the name given to this checking process.

Several mining technologies are used by cryptocurrencies depending on their specific needs. For instance, some cryptocurrencies aim to limit the number of transactions that are validated per unit of time, while others focus on acquiring quick, light services. Certain mining algorithms are very memory- and computational-intensive. In this piece, we attempt to put together a study of several cryptocurrency mining systems and evaluate their effectiveness. Cryptocurrencies like Bitcoin, Litecoin, Peercoin, Ethereum, and Ripple are among the most intriguing, popular, and transaction-rate- and capital-efficient. They also present the principal mining algorithms.

### III. FANTASY SPORTS

The Indian Fantasy Sports (FS) market has grown significantly during the past several years. The sector now has a market size of more than INR 34,000 crore and serves more than 13 crore registered consumers thanks to strategic investments. The industry's footprint has increased significantly over the past five years to become the largest in the world, and in our sports-obsessed country, client acquisition is only accelerating.

The number of sporting events that Fantasy Sports platforms provide is growing as low data prices and rising smartphone adoption make them more accessible. Large numbers of fans have flocked to sports leagues like football, cricket, and kabaddi, and the FS industry has profited from the increase in viewership that has resulted platforms have responded by upgrading the fan experience to that of an active team manager, making tactical decisions while leveraging real-world sports expertise to construct the best possible virtual squad.

This goes beyond simple spectatorship in the stands or in front of the Screen. Sports enthusiasts have been introduced to events that would not often be popular in India thanks to FS competitions. By contributing to the overall development of the digital ecosystem, their digital footprint is assisting in the creation of future-ready jobs in analytics, AI, and machine learning. To ensure that the industry's rapid expansion is restrained by a responsible approach to governance, the financial services sector is likewise embracing structure and order. By self-regulation, in order to support the sector's progress, FS operators have developed frameworks that ensure all industry players uphold moral and transparent standards. The NITI Aayog's recommendation to include a stable and minimal regulatory framework will strengthen FS operators' capacity to shape the narrative surrounding their Fantasy Sports business.

### IV. WORKING OF CRYPTO 11 PLATFORM

The system for a crypto currency fantasy game would work as follows:

- 1) **User Registration:** The first step is for users to create an account by registering with the application. The user will provide basic information such as name, email, password, and Wallet.
- 2) **Create or Join a Contest:** After registration, the user can either create a new contest or join an existing one. A contest is a group of users who compete against each other in a fantasy game. Users would be able to join a contest using either real money or virtual currency earned through gameplay.
- 3) **Drafting:** Once the Contest is formed, the participants select their Tokens through a Portfolio. Participants will typically choose crypto from a pre-determined pool of Cryptocurrencies.
- 4) **Manage Your Tokens:** After the draft, the user will manage their token by making portfolio changes, adding, or dropping tokens, and making trades with other users.
- 5) **Scoring:** The application will track player statistics in real-time and calculate scores for each token based on the performance of their selected Cryptos. Points are awarded based on the real-world cryptocurrency exchanges, and the prices of the currencies would be updated in real-time.
- 6) **Rewards:** The rewards system would provide players with achievements and rewards for reaching certain milestones, such as buying a certain amount of currency, completing a certain number of challenges, or reaching the top of the leader board.
- 7) **The leader board** would track player rankings based on the wealth they have accumulated in the game. The top players would be displayed on the leader board, creating a sense of competition, and encouraging players to engage in the game.
- 8) **Other Features:** The news system would provide players with the latest updates on cryptocurrencies, which could affect the prices on the marketplace.

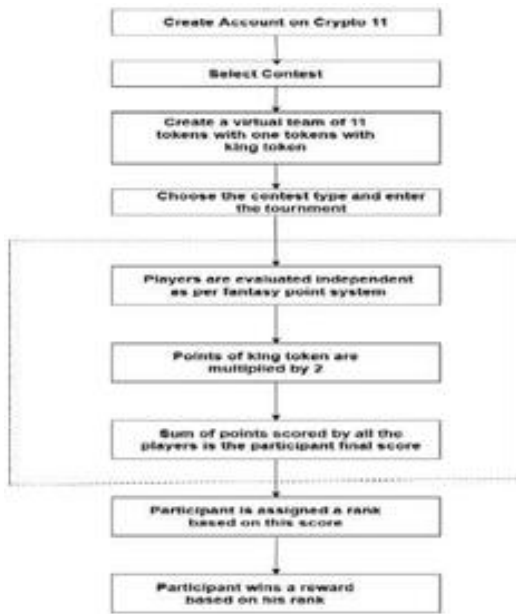


Figure 1: Working of Platform

Overall, the framework of a fantasy sports application would provide an engaging and immersive experience for players who are interested in the world of crypto currencies. By incorporating elements of real-world crypto trading, news updates, challenges, social features, and rewards, the system would create a fun and competitive environment for players to learn and explore the world of cryptocurrencies.

### V. LOGIC BEHIND CHOOSING WINNER

for each participant entry:

set points = 0

Loop for all selected coins: calculate

"percentChange" (percentage) of price change from Price at start of competition and price at end of competition.

set 'divider' as:

We think the chance to earn money is a great incentive to play fantasy games, but it's not the only one. Fantasy is fun since it heightens the excitement of watching a competition. The main goals of Crypto11 are to delight users, establish themselves as the most reliable fantasy gaming site, and enable them to profit from their abilities. The goal of Crypto11 is to give cryptocurrency lovers the best possible online fantasy game experience.

Cryptocurrencies and fantasy are the foundation of our identity. We are building a platform that will let real bitcoin

enthusiasts fulfil their ambitions. Our objective is to raise user proficiency so they can play fantasy games in a completely secure environment. For those who are interested in cryptocurrencies, there is Crypto11!

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