



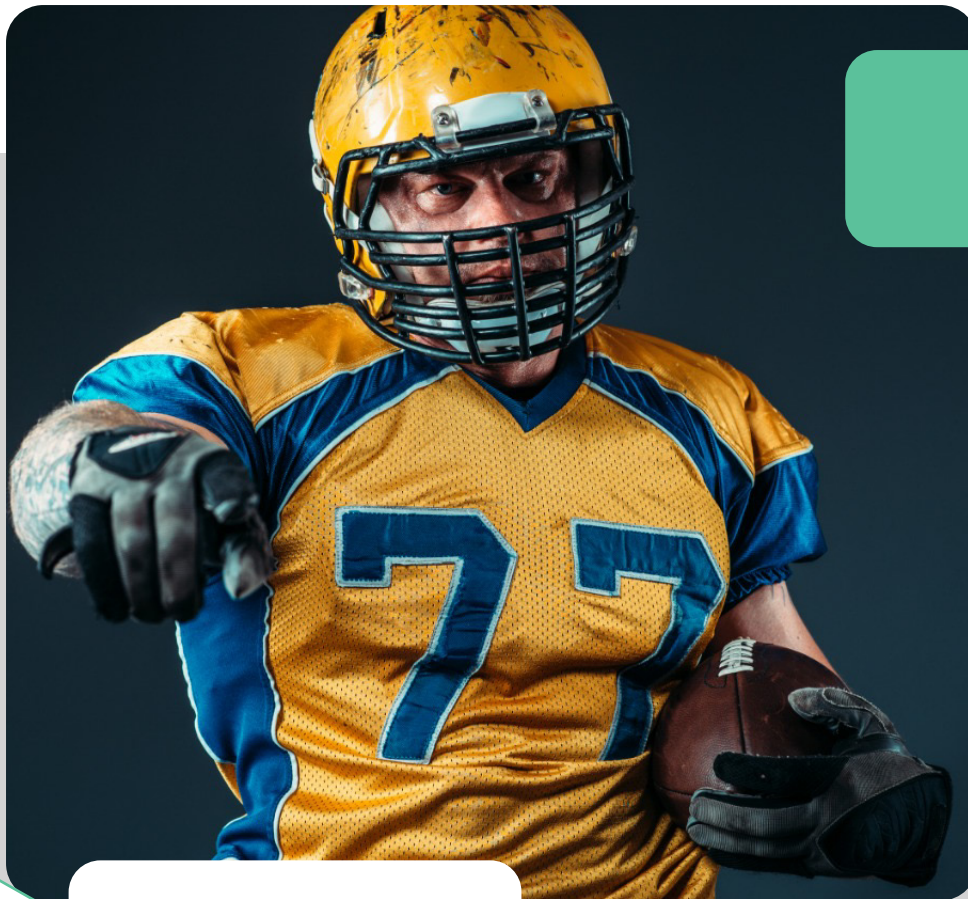
FLOW - Sports Seekers

Webmob Software Solutions

Game where one can collect and trade cards of sports stars.

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Nitin Gupta - Founder & CEO



About WEBMOB

Webmob has emerged as a service delivery pioneer in this dynamic Fintech industry. Served a legion of laurelled clients in Europe & the Middle East.

With AI, ML-powered, Cloud-native, and Blockchain in our stack, Webmob provides cutting-edge solutions to fulfill the customer's advanced & disruptive requirements.

Particularly for the FINTECH industry, Webmob offers unparalleled robust solutions in Trade Finance, Money Market, Fiduciary, Commercial Real Estate Loan Tokenization and NFT Marketplaces on top Blockchains.

Webmob is as of today weaponed with a fully equipped R&D lab Aka WikiDLT.com, constituting Certified professionals specifically to explore new possibilities for Innovative Blockchain implementations worldwide.

Overview

More than \$2 billion was spent on non-fungible tokens, or NFTs, during the first quarter of 2021 — representing an increase of about 2,100% from Q4 2020. The Non-Fungible Token (NFT) is a trending platform globally, and millions of users have moved forward in gaining some exposure in the trade market.

The NFT Marketplace solutions bring users a mind-blowing platform to buy and sell their NFTs. The NFT growth is estimated to rise by 100% more in 2021 than the previous year, and its value has never fluctuated with significant differences in the marketplace.

Non-fungible tokens (NFTs) are digital assets on a blockchain that can be uniquely identified. This includes things like art, sports cards and games music videos etc., where each individual unit has its own properties which cannot be changed or altered in any way to make them different from one another - this makes it possible for users who don't know much about cryptocurrencies yet still want access these cool projects easier by simply collecting NFT's instead!

With NFTs, this natural process of collecting has become digitized. The result is an opportunity for artists to prove ownership and authenticity in ways that were impossible before with just their work alone; but now there's also a way connect directly with audiences without the middle man!



The difference between NFTs and other tokens (Bitcoin, Ethereum) is that they're non-fungible. This means unlike a dollar bill or even bitcoin which can be identical to another one from the same series as long as it has markings on them to identify their authenticity; each individual token has identifying information making sure everyone knows exactly what one owns!



Business Need

A NFT project like NBA Top Shots built on FLOW Blockchain.

Create NFT's of players in different sports where each NFT Card has a corresponding Scarcity and multiple NFT Mint functionalities.

Our Solution

Created NFT smart contract on Flow Blockchain and integration with Blockto Wallet.

Benefits

- User-friendly experience with NFT's
- Built on the FLOW blockchain, so no Scalability issue as such.
- The end-user wouldn't have to worry about the Gas fee.



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Technology

Solution created over the MERN stack

- Back-End: NodeJs - JavaScript is like a Swiss knife for web apps. It can be used to write front-end or back-end (thanks to NodeJS) without hesitation and it has an ever-increasing thriving community that translates into almost anything you want whether its integration, tooling/libraries.

- Front-end: ReactJs - The most mature front-end tools in terms of Features and Active Community support. Offers a component-based system which results in fast development. React is flexible for state management, routing, or caching.

- Database: MongoDB Atlas - The source-available cross-platform document-oriented NoSQL database program MongoDB is an excellent choice of software for the job at hand!

- Framework: ExpressJS - JavaScript offers NodeJS with framework such as ExpressJS to enforces better code structure and maintainability.

- FCL: Flow Client Library enables applications to easily integrate with all FCL-compatible wallets and other services. Like WEB3.js on Ethereum, the Flow blockchain developed FCL to Query the Flow Blockchain, Send and Sign transactions through wallet integration avoiding key management.

- Flow CLI: A command-line interface that provides useful utilities for building Flow applications, includes several commands to interact with Flow networks, such as querying account information and deploying Smart Contracts.

- Cadence: A resource-oriented programming language that introduces new features to smart contracts such as:

1. Strong static type system. Utilization of capability-based Security.
2. Built-in pre & post-conditions for functions and transactions.

- Blocto Wallet integration: Blocto provides an accessible blockchain identity system. One can explore blockchain world freely with this identity and interact with various blockchain applications.

- Sendgrid: A cloud-based SMTP provider delivering transactional and marketing emails.

- Auth0: Provides the most extensive functionality to ensure user authentication and authorization.

- IPFS: A file-sharing system that can be leveraged to more efficiently store and share large files. It relies on cryptographic hashes that can easily be stored on a blockchain.



Solutions

Webmob Software Solutions leveraged cutting-edge technologies to transform the visions of the client into reality.

The Case study outlines the approach of the Webmob team conceptualizing NFT Story Cards.

01

Created NFT smart contract on Flow Blockchain. Implemented blockchain connectivity with Backend and frontend using Flow SDK. Also integrated the BLOCTO Wallet.

02

Setup Backend API and frontend connectivity to mint multiple NFT's with corresponding scarcity and relevant metadata.

03

Created a NFT Pack drop system like NBA Top Shots. The Admin creates a pack of NFT and then users will register for the Pack drop.

04

Created a Pack-drop algorithm that creates sub-packs and selects users randomly with some conditions provided by the client. The users receive an email notification.



About FLOW

Flow blockchain is an open, decentralized blockchain aimed at offering one platform for accommodating emerging use cases of blockchain technology. As the world witnessed a rapid growth in the adoption of NFTs, blockchain network usage would definitely present some issues. However, it is also important to look at alternatives such as the Flow blockchain.

Flow blockchain aims to address many prominent issues in existing blockchain networks. Therefore, one can find some noticeable highlights which set it apart from other blockchain networks, such as:

- The Multi-Role architecture
- Resource-Oriented programming
- Consumer Onboarding
- Developer Ergonomics