

The Graph Hackathon [Track 1]

NFTSENTRY DISCORD BOT

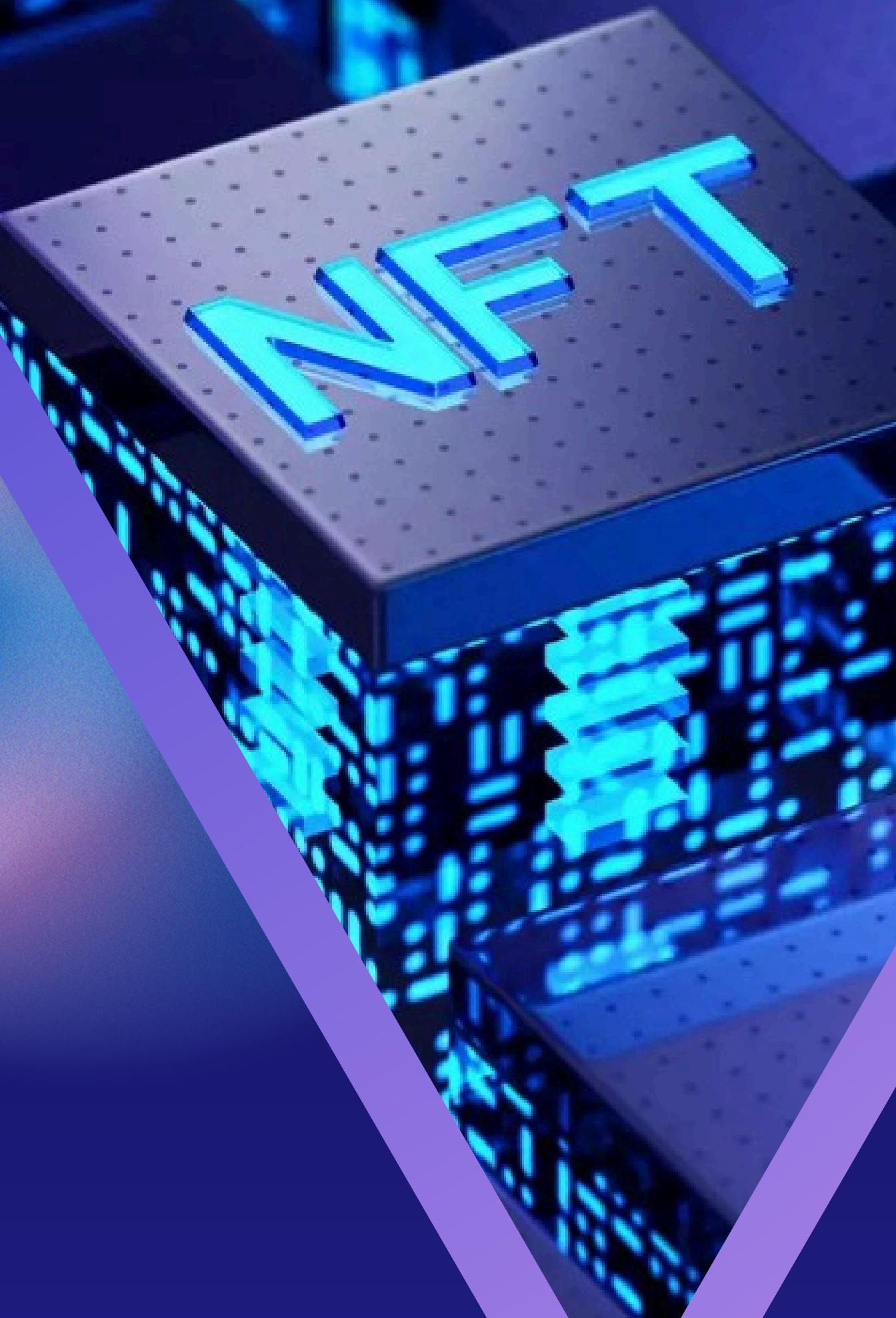
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INTRODUCTION

The rapid growth of the NFT market, particularly in popular collections like Bored Ape Yacht Club (BAYC), makes it difficult for holders and collectors to track vital information such as ownership changes, transaction details, and transfer history. The constant trading of NFTs can overwhelm users, especially when relying on manual navigation across multiple platforms.

NFTSentry Bot solves the problem of tracking NFT information by providing a Discord bot that automates NFT monitoring. Utilizing APIs and graph databases, it enables users to access the latest transfers, ownership history, detailed attributes, and current owners directly in Discord. This streamlines access to vital NFT data in real time.



KEY FEATURES

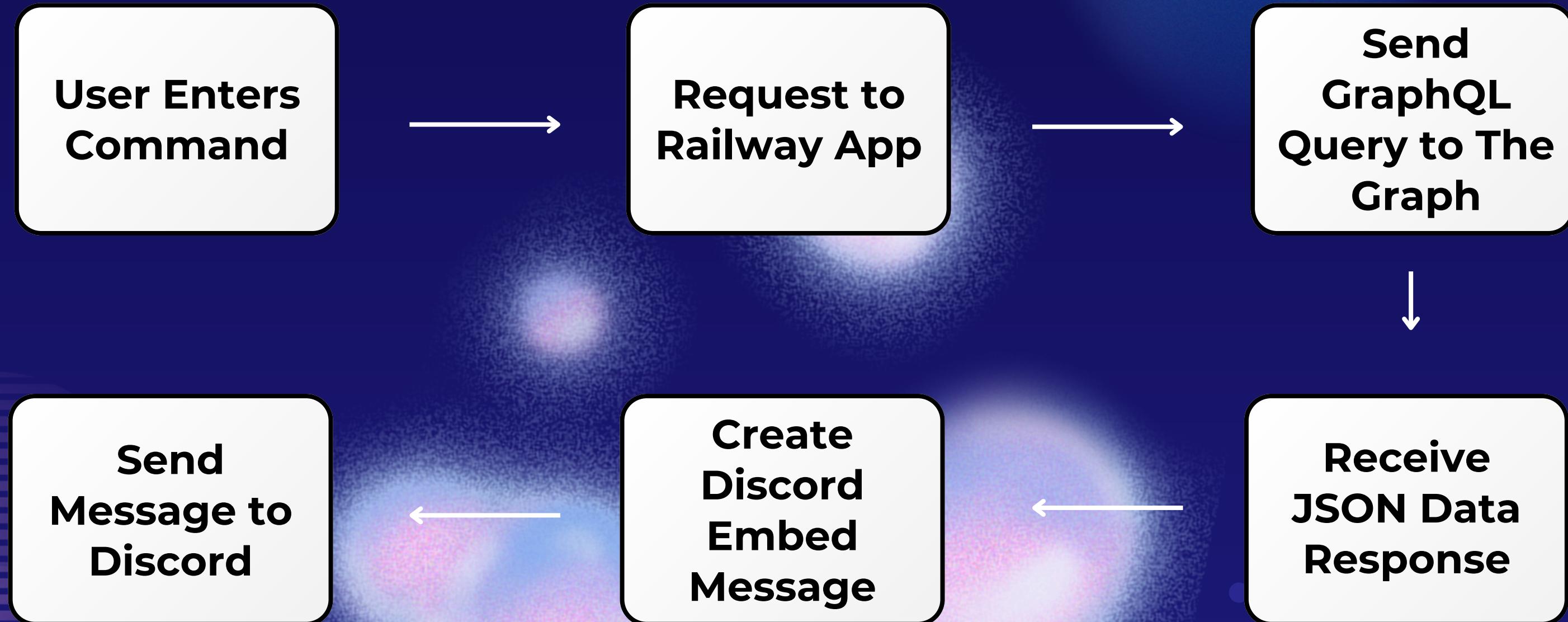
- Latest Transfers: Fetch the latest 5 NFT transfers in the BAYC collection.
- Transaction Search: Look up transactions by hash for detailed information.
- NFT Details: Get information about NFT attributes using token ID.
- Ownership History: View the complete ownership history of an NFT.
- Current Ownership: Find out the current owner of an NFT.
- Help Command: Display all available commands and their descriptions.

TECHNOLOGY STACK

- Node.js (with .mjs extension): Utilized for backend services and bot functionality.
- Dependencies:
 - axios: For making HTTP requests.
 - discord.js: Framework for building the Discord bot.
 - dotenv: For managing environment variables.
 - node-fetch: For making API requests.
- Data Hosting: Used Railway App for seamless hosting of the bot.
- Data Access: Leveraged The Graph for efficient fetching and accessing data from the blockchain.
- Version Control: Utilized GitHub for code management and collaboration.



FLOW CHART



REAL-WORLD USE CASES AND FUTURE ENHANCEMENTS

Real-World Use Cases:

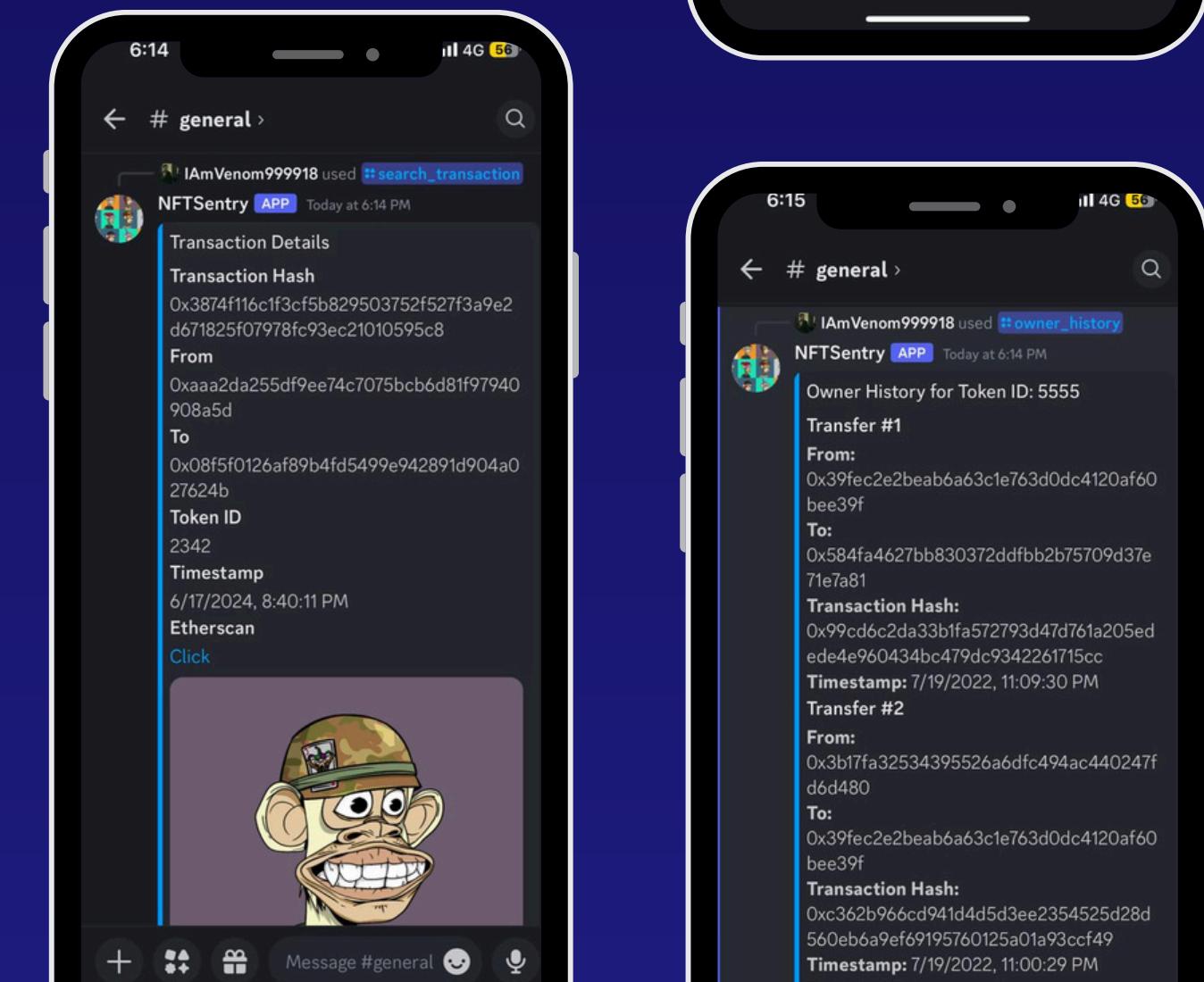
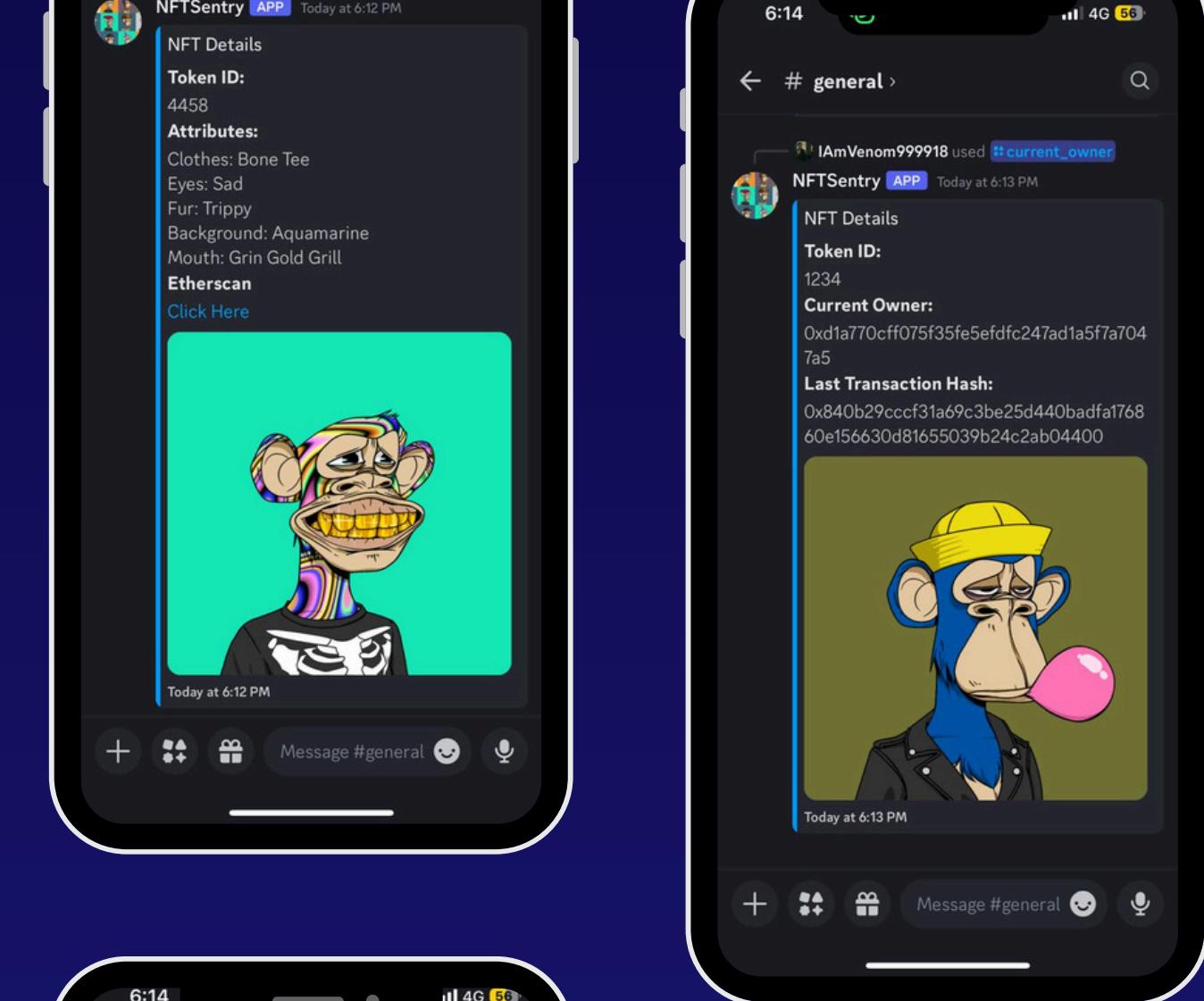
- Monitoring Transfers: Track NFT transfers within popular collections.
- Ownership Verification: Confirm ownership of high-value NFTs for transactions and trades.
- Community Engagement: Utilize the bot for updates, announcements, and interactions within the NFT community.

Future Enhancements:

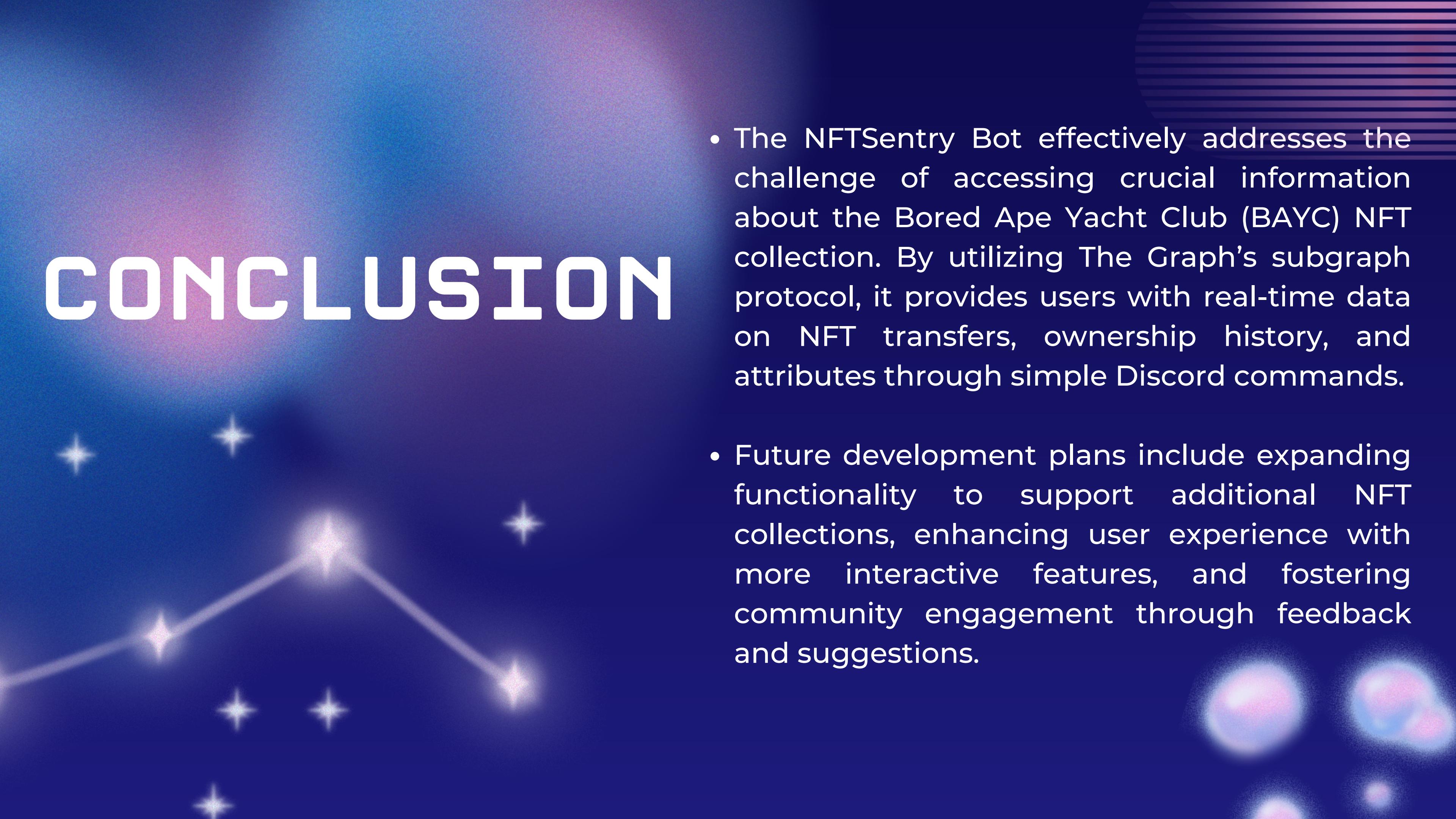
- NFT Price Tracking: Integrate real-time pricing for NFTs to provide users with up-to-date market insights.
- Multiple NFT Collection Support: Expand functionality to support additional NFT collections beyond BAYC.
- Transfer Alerts & Notifications: Implement alerts for users on significant transfers or changes in ownership.

PRODUCT SHOWCASE

- Powerful Tool for NFT Enthusiasts: Provides seamless access to vital information about the Bored Ape Yacht Club (BAYC) NFT collection.
- Effortless Command Use: Users retrieve detailed data on NFT transfers, ownership history, and attributes with simple Discord commands.
- User-Friendly Design: Intuitive interface suitable for both newcomers and experienced NFT collectors.
- Fast and Reliable Data Retrieval: Utilizes The Graph's subgraph protocol for efficient blockchain data access.
- Community-Driven Insights: Enhances accessibility to NFT information, showcasing the synergy of blockchain technology and community platforms.



CONCLUSION



- The NFTSentry Bot effectively addresses the challenge of accessing crucial information about the Bored Ape Yacht Club (BAYC) NFT collection. By utilizing The Graph's subgraph protocol, it provides users with real-time data on NFT transfers, ownership history, and attributes through simple Discord commands.
- Future development plans include expanding functionality to support additional NFT collections, enhancing user experience with more interactive features, and fostering community engagement through feedback and suggestions.

THANK YOU

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