



# Mujadalah: Jurnal Advokasi dan Peradilan

Vol. 1 | No. 1 | Februari 2026 | Pages: 20-27

p-ISSN: - ; e-ISSN: -

Published by Lembaga Konsultasi dan Bantuan Hukum Universitas Muhammadiyah Sidoarjo

Article history:

Received: 1 Februari 2026

Accepted: 19 Februari 2026

Published: 16 Maret 2026

## Legal Implications of Non-Fungible Token Asset Ownership in the Axie Infinity Platform Ecosystem

Muhammad Asrul Maulana<sup>1)\*</sup>, Ni Ketut Indhira Maharani<sup>2)</sup>

<sup>1) 2)</sup> Master of Law, Faculty of Law, Airlangga University, Indonesia

\* Corresponding Author Email: [muhammad.asrul.maulana2024@alumni.unair.ac.id](mailto:muhammad.asrul.maulana2024@alumni.unair.ac.id)

**Abstract.** *This research aims to analyze the interrelation between intellectual property law and ownership of Non-Fungible Tokens (NFTs) on the Axie Infinity platform. The research method used is normative with a legal approach and document analysis technique. Data were obtained from literature and documents related to intellectual property law and ownership of NFT assets. The results show that intellectual property rights related to NFT assets on the Axie Infinity platform include copyright and brand rights. Ownership of NFT assets on the Axie Infinity platform has limited legal power, as it only grants rights to the digital representation of an asset, not the physical asset itself. However, the Axie Infinity platform has ensured the security of NFT asset ownership through the blockchain mechanism used. The conclusion of this research is that the interrelation between intellectual property law and ownership of NFT assets on the Axie Infinity platform requires appropriate legal protection, especially in terms of recognition of ownership legality and regulation of NFT asset rights.*

**Keywords** – *Legal Implications, Non-Fungible Token Asset, Axie Infinity Platform.*

### I. INTRODUCTION

In the development of NFT (Non-Fungible Token) purchasing trends throughout the world, OpenSea as the largest NFT market in the world provides new payment options for users. Now, users can buy NFTs using DAI and USDC tokens based on the Ethereum network. Both tokens fall into the stablecoin category, where their value remains stable and is tied to the value of the US dollar. With this payment option, users no longer need to worry about cryptocurrency value fluctuations when wanting to buy NFTs. OpenSea has also seen increased demand from buyers looking to use DAI and USDC as a form of payment. This shows that more and more people are interested in purchasing NFT assets using cryptocurrency.[1]

Not only that, NFTs have now become a status symbol for crypto investors and are the most popular investment assets. Some of the most expensive NFT works in the world have even been sold for fantastic prices, reaching trillions of rupiah. In Indonesia too, many people are starting to be interested in owning this digital asset, there are even young Indonesians who have succeeded in owning the most expensive NFT product in Indonesia.[2] With more and more people interested in NFTs, OpenSea as the largest NFT marketplace in the world continues to strive to make it easier for users to make NFT purchase transactions.

Recently, the NFT platform Axie Infinity was in the spotlight after being linked to a North Korean hack in the theft of millions of dollars worth of cryptocurrency. It was reported that the blockchain hacking project last March, namely Ronin, was one of the largest to hit the crypto world. According to a US Treasury Department spokesperson, North Korea is increasingly relying on illicit activities, including cybercrime, to

generate revenue for its weapons of mass destruction and ballistic missile programs as it tries to evade strong US and UN sanctions.[3]

Despite this, Axie Infinity continues to be a popular NFT platform, as evidenced by its growing number of users. Axie Infinity players have spent more than \$2 billion buying digital characters called Axies in the past year. Axies are NFT assets that have unique value and can be traded at varying prices.

Axie Infinity continues to roll out new features to expand the gaming experience and attract more users. One of the new features is "Mystic Axies", Axies with unique and rare abilities. These types of Axies can be found through in-game searches or by purchasing from NFT marketplaces.

With rapid growth, Axie Infinity also experienced several problems such as high transaction fee increases and high demand for Axies. Despite this, Axie Infinity continues to grow rapidly and attract more users into the blockchain ecosystem.[4] With the emergence of the NFT market, more and more people are interested in owning unique and valuable digital assets.

Current legal conditions, there are no regulations that specifically regulate the law of NFT ownership in Indonesia. This results in the lack of clarity regarding legality and legal protection for NFT owners in Indonesia. However, based on Law no. 19 of 2016 concerning Intellectual Property Rights, NFTs can be treated like other intellectual assets such as patents, trademarks and copyrights. This means that NFTs can be protected by law as unique copyrighted works that have commercial value.

However, as a first step to protect NFT owners in Indonesia, the Commodity Futures Trading Supervisory Agency (Bappebti) has designated NFTs as digital commodities that can be traded on futures exchanges. In this regulation, NFT is considered a form of digital asset that has value and can be traded.

In practice, NFT owners can take steps to protect their interests such as entering into written agreements with buyers or sellers, following secure NFT sending and receiving procedures, and keeping complete and clear copies of transaction documents. Along with the development of blockchain technology and the increasing popularity of NFTs, it is hoped that the Indonesian government can immediately issue clearer and firmer regulations to protect the rights of NFT owners in Indonesia.

The current state of research, seen from the lens.org indexing agency, shows that NFTs are the newest phenomenon to emerge in the digital world. This is due to the ability of NFTs to monetize digital content from various types of assets and introduce the concept of scarcity into the digital world. One of the factors making NFTs increasingly popular is the ability of smart contracts to generate revenue for the original creator of the NFT based on future transactions.[5]

NFTs can be used in various fields of activity, including sports. In this field, NFTs are used for various things such as digital collectibles, tickets, athlete images, transferable memberships, and even ownership stakes. As NFT transactions increase, companies are increasingly interested in using them to expand their sales channels and business models.[6]

The advantage of NFTs is the secure nature of blockchain technology which provides transparency of transaction history and ensures the uniqueness of each NFT. Metadata stored in the token's smart contract ensures this uniqueness and can be verified by anyone on the network. This reduces the risk of counterfeiting to zero. Cryptocurrencies, which are used as virtual means of payment, also have the same principles in using blockchain technology. However, cryptocurrencies do not have centralized management authority or centralized control and supervision.[7] In Indonesia, cryptocurrency is regulated in the Commodity Futures Trading Supervisory Agency Regulation Number 5 of 2019 concerning Technical Provisions for the Implementation of the Physical Market for Crypto Assets (Crypto Assets) on the Futures Exchange.

In a legal context, NFTs also have interactions with intellectual property rights and digital asset ownership. Therefore, it is important to understand how NFTs are viewed from a legal perspective and how they can be linked to the concepts of intellectual property rights and ownership of digital assets. This study will focus on the Axie Infinity platform and research intellectual property rights law and digital asset ownership interacting with NFT ownership on the platform.[8]

This research focuses on the consequences arising from the law, as well as the legal relationship of the parties involved, between platform owners and users regarding ownership of intellectual property rights in NFT assets, and usage restrictions offered by the platform to users, then explained to find legal implications in Indonesia, apart from that, this research aims to explore the interrelation between intellectual property rights law and ownership of NFT assets on the Axie Infinity platform. This article will discuss the concept of NFT asset ownership, the legal regulations for intellectual property rights related to NFT asset ownership, and how this applies to the Axie Infinity platform. This article also aims to provide an overview of the potential legal issues that may arise in owning NFT assets on such platforms.

Benefits This scientific article is expected to provide benefits for legal experts, blockchain technology developers, investors and users of the Axie Infinity platform. In the legal field, this article can be a reference for understanding the legal regulations for intellectual property rights related to ownership of NFT assets. This article may also provide insight into potential legal issues that may arise in owning NFT assets on the Axie Infinity platform. For blockchain technology developers, this article can be a reference for understanding the impact of legal regulations on intellectual property rights on the Axie Infinity platform and other blockchain technology applications. For investors and users of the Axie Infinity platform, this article can provide information about the legal implications of owning NFT assets and how this can affect investment and use of the platform.

## II. METHOD

This research uses a normative method with a statutory and conceptual approach, the primary legal material used is Law no. 19 of 2016 concerning Intellectual Property Rights and Regulation of the Commodity Futures Trading Supervisory Agency Number 5 of 2019 concerning Technical Provisions for the Implementation of Physical Markets for Crypto Assets (Crypto Assets) on the Futures Exchange, apart from that, using secondary data obtained from lens.org indexing agency sources such as books, journals, scientific articles, documents. The analysis technique used is descriptive qualitative by finding a deductive nature, the information presented is drawn into a conclusion.

## III. RESULT AND DISCUSSION

Axie Infinity is a virtual world filled with cute and tough creatures known as Axies. Axies can be fought, raised, collected, and even used to gain resources & collectibles that can be traded on the open market. Axie was designed to introduce the world to an exciting new technology called Blockchain, through fun, nostalgic & charming gameplay.

Axie Infinity is a universe filled with collectible vicious creatures called Axies. Axie features a player-owned economy where players have full ownership of their digital assets and can buy, sell, and trade them like physical trading cards and collectibles.

The Axie universe is always expanding through new games and experiences. Many of these experiences will allow players to compete against each other using complex strategies and tactics to reach the top of the rankings or earn coveted resources. Others will have them completing missions, defeating bosses, and unlocking deep storylines.

Axie Infinity is structured as an open digital pet universe. Axie NFT assets can be seen as tickets that grant access to all current and future experiences built on Axie IP. In this way, Axies serves as a base layer for a world of limitless experiences.

The Axie core team will build functionality for game assets associated with the Axie brand according to community approval. The Axie universe is definitely fun above all else; only by having an immersive gaming experience can the ecosystem attract enough participants to add value to the network.

The number of Axie combinations is almost unlimited. Each Axie has various parts based on its unique genetic code. These genes correspond to parts of the body that can be interpreted in different ways by different experiences. For example, the first generation of Axie games had all the bells and whistles where Axies could play cards or use moves in battle that were determined by their body parts.

All Axie art assets and genetic data are easily accessible to 3rd parties, allowing community developers to build their own tools and experiences in the Axie Infinity universe. While still in early access, Axie was ranked #1 Ethereum game by daily, weekly, and monthly active users. Players have spent over 1M ETH (4B+ USD) so far in the Axie universe.

While Axie is a fun game, it also takes on the characteristics of a social network and earning platform due to its strong community and the opportunity to actually own the resources earned in the game.

The main difference between Axie and traditional games is that Blockchain's economic design opens up the ability to have complex player-owned economies and rewards players who are able to reach higher skill levels. Players can have fun and work towards ambitious goals while simultaneously gaining potential resources that will have real monetary value due to the open economic system and requests from other players - "Play and Earn".

Currently, players can obtain more resources to progress in the game with:

1. Compete in Battles to win leaderboard prizes as well as Smooth Love Potion (SLP)
2. Breeding Axies to produce new ones with certain combinations of Body Parts
3. Collect and speculate on rare Axies like Mystic and Origins
4. Create art and content
5. Incorporating newcomers to the Axie universe

The cryptocurrency network used in the Axie Infinity platform initially adopted Ethereum in 2018 due to the number of developers building on the platform, and the ability to recruit early community members. As time went on, it became clear that building blockchain games solely on Ethereum would not be feasible from a scalability standpoint. Platform owners have learned that while our users care about blockchain technology, they are focused on the benefits it can provide, rather than decentralizing too many features.

As long as we provide a tamper-proof distributed ledger that ensures scarcity and allows our players to own and trade their assets, that's enough, for now. Additionally, the Play to Earn mechanism does not require a fully decentralized public blockchain. We believe that part of the web 3 ethos is the idea that users are rewarded for the value they bring to the application and this is what we chose to focus on with Axie.

#### **A. Legal Provisions of the Parties for the Protection of Personal Data on Use of the Axie Infinity Platform**

While using the platform Services, we may ask you to provide us with certain personally identifiable information that can be used to contact or identify you ("Personal Data"). Personally identifiable information may include, but is not limited to email address Cookies and Usage Data. The Platform may also collect information that your browser sends whenever you visit our Services or when you access the Services by or through a mobile device ("Usage Data").

This Usage Data may include information such as your computer's Internet Protocol address (e.g. IP address), browser type, browser version, the pages of our Service that you visit, the time and date of your visit, the time spent on those pages, unique device identifiers and diagnostic data other. When you access the Services by or through a mobile device, this Usage Data may include information such as the type of mobile device you use, your mobile device's unique ID, your mobile device's IP address, your mobile operating system, the type of mobile Internet browser you use, identifiers unique devices, and other diagnostic data.

The Platform uses cookies and similar tracking technologies to track activity on our Services and store certain information. Cookies are files with small amounts of data that may include an anonymous unique identifier. Cookies are sent to your browser from websites and stored on your device. Tracking technologies also used are beacons, tags, and scripts to collect and track information and to improve and analyze our Services.

Users can instruct your browser to refuse all cookies or to indicate when a cookie is being sent. However, if you do not accept cookies, you may not be able to use some parts of the platform Services. Session Cookies. the platform uses Session Cookies to operate the platform Services. Preference Cookies. We use Preference Cookies to remember your preferences and various settings. Security Cookies. The Platform uses Security Cookies for security purposes.

To provide and maintain the Services To notify you about changes to our Services To allow you to participate in interactive features of our Services when you choose to do so To provide customer service and support To provide analysis or valuable information so we can improve the Services To monitor usage of the Services To detect, prevent and troubleshoot technical problems your information, including Personal Data, may be transferred to and stored on computers located outside your state, province, country or other governmental jurisdiction where the data protection laws may differ from your jurisdiction.

If you are located outside the United States and choose to provide information to us, please be aware that we transfer data, including Personal Data, to the United States and process it there. Your consent to this Privacy Policy followed by your submission of such information constitutes your consent to such transfer. Axie Infinity will take all steps reasonably necessary to ensure that your data is treated securely and in accordance with this Privacy Policy and no transfer of your Personal Data will take place to an organization or country unless there are adequate controls in place including the security of your data and personal information other.

Legal Requirements Axie Infinity may disclose your Personal Data in the good faith belief that such action is necessary to comply with a legal obligation To protect and defend the rights or property of Axie Infinity To prevent or investigate possible wrongdoing in connection with the Service To protect the personal

safety of users of the Service or the public To protect against liability Hukum answered. The security of your data is important to us, but remember that no method of transmission over the Internet, or method of electronic storage is 100% secure. While we strive to use commercially acceptable means to protect your Personal Data, we cannot guarantee its absolute security.

We may employ third party companies and individuals to facilitate our Services ("Service Providers"), to provide the Services on our behalf, to perform Service-related services or to help us analyze how our Services are used. These third parties have access to your Personal Data only to perform these tasks on our behalf and are obligated not to disclose or use it for any other purpose.

**Analytics** We may use third party Service Providers to monitor and analyze the use of our Services. Our Service may contain links to other sites that are not operated by us. If you click on a third-party link, you will be directed to that third-party site. We strongly advise you to review the Privacy Policy of each site you visit.

The Platform has no control over and assumes no responsibility for the content, privacy policies, or practices of any third party sites or services. Our Services are not directed to anyone under the age of 18 ("Children"). We do not knowingly collect personally identifiable information from anyone under 18 years of age. If you are a parent or guardian and you are aware that your Children have provided us with Personal Data, please contact us. If we learn that we have collected Personal Data from children without verification of parental consent, we take steps to delete that information from our servers.

The Platform may update our Privacy Policy from time to time. We will notify you of any changes by posting the new Privacy Policy on this page. The platform owner will notify you via email and/or a prominent notice on our Services, prior to the change becoming effective and update the "effective date" at the top of this Privacy Policy. Users are advised to review this Privacy Policy periodically for any changes. Changes to this Privacy Policy are effective when posted on this page.

## **B. Intellectual Property Rights**

Unless otherwise stated, the Site and Apps and Smart Contracts are our property and all source code, databases, functionality, software, website designs, audio, video, text, photos and graphics on the Site and Apps (collectively, "Content") and the trademarks, service marks and logos contained therein (the "Marks") are owned, controlled by us or licensed to us, and are protected by copyright and trademark laws and various other intellectual property rights and unfair competition laws of the Cayman Islands, foreign jurisdictions and international conventions[9]. Except as expressly stated in these Terms of Use, no part of the Site, Applications and Smart Contracts, and no Content or Marks may be copied, reproduced, aggregated, republished, uploaded, posted, publicly displayed, encoded, translated,

Provided that you are eligible to use the Site, Applications and Smart Contracts, you are granted a limited license to access and use the Site or to download or print a copy of any portion of the Content that only you have proper access to. for your personal and non-commercial use. We reserve all rights not expressly granted to you in and to the Site, Application, Content and Marks.

Provided you own, or have permission from someone who owns ERC721 Axie assets, you are granted a limited license to create commercially usable fan art provided you follow the terms set forth herein. Fan art may not use official Axie assets (logos Axie Infinity, Axie Infinity Shard logo, SLP logo, etc), but creating non-commercial derivative official Axie assets as inspiration is acceptable.

Artwork must clearly state "Axie Infinity Fanart", and link directly to the Axie used for inspiration. Axie NFTs can be used to generate a maximum of \$10,000 in revenue before a formal licensing agreement must be signed. Revenue can come from fan art (tokenized or physical) or merchandise (t-shirts, mugs, hoodies, etc.). And creating original fanart without monetizing it is acceptable without any licensing or ownership.

Users may not access or use the Site, Applications and Smart Contracts for any purpose other than the purposes for which we provide the Site, Applications and Smart Contracts. The Site, Apps and Smart Contracts may not be used in connection with any commercial endeavor unless agreed to in a binding legal contract with Axie Infinity Limited. The following are the limitations on using the platform in terms of ownership of Intellectual Property Rights: Systematically retrieve data or other content from the Site, Applications and Smart Contracts to create or compile, directly or indirectly, a collection, compilation, database or directory without written permission from us.

Make unauthorized use of the Site, Application and Smart Contracts, including collecting usernames and/or email addresses of users by electronic or other means for the purpose of sending unsolicited email, or creating user accounts by automated means or under false pretenses. Use a

purchasing agent or purchasing agent to make purchases on the Site, Apps and Smart Contracts. Use the Site, Applications and Smart Contracts to advertise or offer to sell goods and services. Circumvent, disable or otherwise interfere with security-related features of the Site, App and Smart Contracts, including features that prevent or restrict use or copying of any Content or enforce limitations on use of the Site, App and Smart Contracts and/or the Content contained therein inside it.

Engage in unauthorized framing or linking to the Site, Applications and Smart Contracts. Defraud, defraud, or mislead us and other users, especially in any attempt to learn sensitive account information such as user passwords. Make improper use of our support services or submit false reports of abuse or violation. Engage in any automated use of the system, such as using scripts to send comments or messages, or using data mining, robots, or similar data gathering and extraction tools, except as provided in 2.5). nterfere with, disrupt, or create an undue burden on the Site, Applications and Smart Contracts or the networks or services connected to the Site.

Trying to impersonate another user or person or use another user's username. Sell or transfer your profile. Use any information obtained from the Site, Application and Smart Contracts to harass, abuse or harm another person. Use the Site, Apps and Smart Contracts as part of any effort to compete with us or use the Site, Apps and Smart Contracts and/or the Content for any revenue-generating endeavor or commercial enterprise. Decipher, decompile, disassemble, or reverse engineer any of the software comprising or in any way making up a part of the Site, Apps and Smart Contracts. Attempt to bypass any measures of the Site designed to prevent or restrict access to the Site, or any portion of the Site, Apps and Smart Contracts. Harass, intimidate, or threaten any of our employees or agents involved in providing any part of the Site, Apps, and Smart Contracts to you. Remove any copyright or other proprietary rights notices from any Content.

Copy or adapt the Site's software, including but not limited to Flash, PHP, HTML, JavaScript, or other code. Upload or transmit (or attempt to upload or to transmit) viruses, Trojan horses, or other material, including excessive use of capital letters and spamming (continuous posting of repetitive text), that interferes with any party's use and enjoyment of the Site or modify, damage, disrupt, alter or interfere with the use, features, functions, operation or maintenance of the Site, Application and Smart Contracts. Upload or transmit (or attempt to upload or transmit) any material that acts as a passive or active information collection or transmission mechanism, including but not limited to, clear graphics interchange formats ("gifs"), 1x1 pixels, bugs web, cookies or other similar devices (sometimes referred to as "spyware" or "passive collection mechanisms" or "pcms").

Except as a result of standard search engine or Internet browser usage, use, launch, develop, or distribute any automated system, including without limitation, any spider, robot, cheat utility, scraper, or offline reader that access the Site, Applications and Smart Contracts, or use or launch any unauthorized scripts or other software. Disparage, tarnish or otherwise harm, in our opinion, us and/or the Site, Application and Smart Contracts. Use the Site, Application and Smart Contracts in a manner inconsistent with applicable laws or regulations. Engaging in any practice intended to manipulate the outcome of any Axie match, whether in arenas or tournaments. All players must play to the best of their ability and any type of match-fixing, win-trading or collusion between competitors is strictly prohibited. Using the same Axies on multiple accounts to qualify for multiple leaderboard rewards is strictly prohibited.

### **C. Smartcontract on The Blockchain Using E-Wallet**

Every purchase (breeding Axies, buying Axies) from the site or marketplace will be made via a smart contract on the blockchain using a wallet such as Metamask or Ronin wallet. Every financial transaction you make will be done solely via Blockchain via a wallet such as MetaMask or Ronin Wallet.[10] The platform owner will have no insight or control over these payments or transactions, nor will we have the ability to reverse any transactions.[11] The platform owner will have no insight or control over these payments or transactions, nor will we have the ability to reverse any transactions.[12]

Ethereum requires payment of a transaction fee ("Gas Fee") for every transaction that occurs on the Ethereum network. Gas Fees fund the computer network that runs the decentralized Ethereum network. This means you will have to pay Gas Fees for every transaction that occurs through the App. In addition to Gas Fees, whenever you use Smart Contracts to conduct transactions with other users through the Application, you authorize us to collect a commission of 4.25% of the total value of such transactions (each, a "Commission").[13]

User acknowledges and agrees that Commissions will be transferred directly to us via the Ronin Network as part of the transaction. As between us, you will be solely responsible for paying any and all

sales, use, value-added and other taxes, duties, and assessments (except taxes on our net income) now or hereafter claimed or imposed by any governmental authority (collectively, "Taxes") related to your use of the Application (including, but not limited to, any Taxes that may be payable as a result of your ownership, transfer or entitlement of Axis). Except for income taxes imposed on Axie Infinity, you:

1. Will pay or reimburse us for all national, federal, state, local or other taxes and assessments from any jurisdiction, including value added taxes and taxes as required by international tax agreements, customs duties or other import or export taxes, and amounts levied in lieu thereof based on fees established, services performed or payments made hereunder, as may now or hereafter be subject to any national, state, local or other taxing jurisdictional authority.
2. No right to deduct the amount of any such taxes, duties or assessments from payments made to us in accordance with these Terms.

We allow advertisers to display their advertisements and other information in certain areas of the Site and App such as sidebar advertisements or banner advertisements. If you are an advertiser, you shall be solely responsible for any advertisements you place on the Site and/or Application, and any services provided on the Site and/or Application, or products sold through such advertisements. Next, as an advertiser.[14] You warrant and represent that you have all rights and authority to place advertisements on the Site and/or Application, including, but not limited to, intellectual property rights, publicity rights, and contractual rights. We only provide space to place these advertisements, and we have no other relationship with advertisers. User accepts and acknowledges each of the following:

1. Blockchain asset prices are highly volatile. Price fluctuations in other digital assets may have a material and negative impact on the value of your Axies, which may also experience significant price volatility. We cannot guarantee that any Axies buyer will not lose money.[15]
2. You are solely responsible for determining what, if any, taxes apply to your Axie-related transactions. Axie Infinity is not responsible for determining the taxes applicable to your transactions on the App, Site or Smart Contracts.[16]
3. The app does not store, send, or receive Axies. This is because Axies only exist based on ownership records stored on the App's supporting blockchain on the Ronin network. Every Axies transfer only occurs on the Ronin network.
4. There are risks associated with the use of Internet-based currency, including, but not limited to, hardware, software, and Internet connection risks, the risk of introducing malicious software, and the risk that third parties may gain unauthorized access to stored information in your wallet. You accept and acknowledge that Axie Infinity shall not be responsible for any communication failures, interruptions, errors, distortions, or delays you may experience while using the Ronin network, however caused.
5. Lack of public use or interest in the creation and development of a distributed ecosystem may negatively impact the development of the Axie ecosystem, and therefore the potential usefulness or value of Axie.
6. The regulatory regime governing blockchain technology, cryptocurrencies and tokens is uncertain, and new regulations or policies could have a material adverse effect on the development of the Axie ecosystem, and therefore the potential usefulness or value of Axies.

Upgrades by Sky Mavis to the Ronin Network may have unintended adverse effects on all Axie Infinity assets.

#### **IV. CONCLUSION**

That the legal implications arising from the existence of intellectual property rights for ownership of NFT assets on the Axie Infinity platform are an important aspect in the digital world, especially with the development of blockchain technology which allows the creation of unique and irreplaceable digital assets such as non-fungible tokens (NFT) on the platform Axie Infinity. However, this raises new legal challenges in protecting ownership rights to these NFT assets. Because NFT assets are a unique and irreplaceable form of digital wealth, recognition of the legality of ownership and regulation of rights to NFT assets is very important. Therefore, the interrelation between intellectual property rights law and ownership of NFT assets on the Axie Infinity platform requires appropriate legal protection in order to protect the ownership rights of NFT asset owners from fraud or theft. Because NFTs are not yet fully regulated by law, appropriate legal measures are needed to ensure that the rights and obligations of NFT asset owners are well protected.

## V. REFERENCE

- [1] T. N. Al-Tawil, "Anti-money laundering regulation of cryptocurrency: UAE and global approaches," *J. Money Laund. Control*, Sep. 2022, doi: 10.1108/jmlc-07-2022-0109.
- [2] L. Ante, "The Non-Fungible Token (NFT) Market and Its Relationship with Bitcoin and Ethereum," p. 9, 2022.
- [3] F. Agustin, S. Syafnidawati, N. P. Lestari Santoso, and O. G. Amrikhasanah, "Blockchain-based Decentralized Distribution Management in E-Journals," *Aptisi Trans. Manag. ATM*, vol. 4, no. 2, pp. 107–113, Apr. 2020, doi: 10.33050/atm.v4i2.1294.
- [4] P. Agnese, "On blockchains, cryptos, and media of exchange. Not there (yet)," *Int. J. Intellect. Prop. Manag.*, vol. 11, no. 1, pp. 81–, 2021, doi: 10.1504/ijipm.2021.10035785.
- [5] H. Bao and D. Roubaud, "Non-Fungible Token: A Systematic Review and Research Agenda," *J. Risk Financ. Manag.*, vol. 15, no. 5, p. 215, May 2022, doi: 10.3390/jrfm15050215.
- [6] A. Colicev, "How can non-fungible tokens bring value to brands," *Int. J. Res. Mark.*, p. S0167811622000532, Jul. 2022, doi: 10.1016/j.ijresmar.2022.07.003.
- [7] C. Alcantara and C. Dick, "Decolonization in a Digital Age: Cryptocurrencies and Indigenous Self-Determination in Canada," *Can. J. Law Soc. Rev. Can. Droit Société*, vol. 32, no. 1, pp. 19–35, May 2017, doi: 10.1017/cls.2017.1.
- [8] M. Dowling, "Is non-fungible token pricing driven by cryptocurrencies?," *Finance Res. Lett.*, vol. 44, p. 102097, Jan. 2022, doi: 10.1016/j.frl.2021.102097.
- [9] S. Sudjana, "Pembatasan Perlindungan Kekayaan Intelektual (Hak Cipta) dalam Perspektif Hak Asasi Manusia," *J. HAM 10*, vol. 1, pp. 69–83, 2019, doi: 10.30641/ham.2019.10.69-83.
- [10] N. Heckler and Y. Kim, "Crypto-Governance: The Ethical Implications of Blockchain in Public Service," *Public Integr.*, vol. 24, no. 1, pp. 66–81, Dec. 2020, doi: 10.1080/10999922.2020.1848106.
- [11] P. Ortolani, "The impact of blockchain technologies and smart contracts on dispute resolution: arbitration and court litigation at the crossroads," *Unif. Law Rev.*, vol. 24, no. 2, pp. 430–448, May 2019, doi: 10.1093/ulr/unz017.
- [12] A. Susanto, "Implementation of Smart Contracts Ethereum Blockchain in Web-Based Electronic Voting (e-voting)," *J. Transform.*, vol. 18, no. 1, p. 56, Jul. 2020, doi: 10.26623/transformatika.v18i1.1779.
- [13] A. Bahauddin, "Aplikasi Blockchain Dan Smart Contract Untuk Mendukung Supply Chain Finance Umkm Berbasis Crowdfunding Syariah," *J. Ind. Serv.*, vol. 5, no. 1, Oct. 2019, doi: 10.36055/jiss.v5i1.6511.
- [14] S. Ghimire, J. Y. Choi, and B. Lee, "Using Blockchain for Improved Video Integrity Verification," *IEEE Trans. Multimed.*, vol. 22, no. 1, pp. 108–121, 2020, doi: 10.1109/tmm.2019.2925961.
- [15] M. Galatovic, "Securing the blockchain for fintech companies," *Comput. Fraud Secur.*, vol. 2022, no. 1, Jan. 2022, doi: 10.12968/s1361-3723(22)70009-7.
- [16] F. Ashari, T. Catonsukmoro, W. M. Bad, null Sfenranto, and G. Wang, "Smart contract and blockchain for crowdfunding platform," *Int. J. Adv. Trends Comput. Sci. Eng.*, vol. 9, no. 3, pp. 3036–3041, Jun. 2020, doi: 10.30534/ijatcse/2020/83932020.