



# AiArtNFT.app

AI-Generated NFT Marketplace  
on the XRP Ledger

← → ↺ aiarntft.app/collections



AiArtNFT

Generate artwork through AI, secure it as NFT

Collections

Create



## NFT Collections



AiArtNFT

By: rfkHMCTuCFh9Qbr3pzJ3...



AiArtNFT Painter

By: r3gH2pm2zjKd8TriotYL...



CBDB Protests

By: rsdXt8tkUAaAmykyXNoY...



Garrier

By: rJpU9mvRFYWutkgdyf7W...

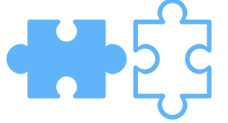
# Proposition



Implemented  
Partially implemented

## AiArtNFT.app

1. NFT Marketplace for AI-Generated Art.
2. Integrated art generation & NFT minting.
3. Generate AI-art, mint, sell, collect, all under a single unified platform.
4. XRPL-first boilerplate for AI Art NFT marketplaces.
5. **Composable** platform, that can easily be **extended with new text-to-image AI models.**
6. **Demo art collections.**
7. Project described with **extensive documentation.**



# Process Flow



Implemented  
Partially implemented

1. Any **User** can assume role of **Creator**, **Buyer**, or both.
2. **User** connects the wallet to the platform.
3. **User** either imports an existing wallet or generates a new wallet.
4. **User** views existing NFT collections.
5. **User** views her/his NFTs.
6. **Creator** generates artwork NFT either by uploading or by using generative AI.
7. If **Creator** chooses generating, **AI Model** generates the image.



8. **Creator** mints the NFT by paying gas fee in XRP.
9. **Creator** creates sell offer by specifying price and selecting the collection to place the artwork into.
10. If **Creator** prefers, **Creator** creates new collection.
11. **Buyer** connects wallet to the platform.
12. **Buyer** selects a collection and an NFT.
13. **Buyer** purchases NFT through XRP payment and gas fee.
14. **System** transfers ownership from **Creator** to **Buyer**.



# Technology/Tool Stack



- **Frontend**

- React.js, Next.js
- Typescript



- **Backend**

- Node & Express
- MongoDB
- Next.js SSR



- **Web 3.0**

- xrpl.js
- IPFS as cloud server
- Pinata



- **Generative AI**

- DALL-E API [<https://openai.com/api/>]



# Technology/Tool Stack



- **Other**

- Vercel.app: *Deployment*
- Prettier: *Code formatting*
- ESLint: *Code analysis*



- **Project Management**

- GitHub: *Versioning*
- Discord: *Communication*



- **Media & Production**

- Labs.OpenAi.com: *AI-generated art*
- TheNounProject: *Licensed icons*
- Berrycast, Loom: *Screen recording*
- CyberLink PowerDirector: *Video production*
- Aicoosoft Video Converter: *Video compression*



# Future Extensions (1/2)

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1. Deployment on **Mainnet**
2. Ready-to-Purchase Art **Collections** on Mainnet
3. **Responsive** Frontend
4. **Tutorials** for Better Image Generation
5. Using **Multiple AI Models/API**
6. **Bulk-minting** of NFTs

# Future Extensions (2/2)

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7. **Safe Results** Filter
8. Generating **other media** with AI
9. Connectivity & **Minting to Existing Marketplaces**
10. **Exporting the Full Source Code** and Images for an NFT Marketplace
11. **Telegram** Integration
12. Social Media & **Network** Effects

# Branding

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## **AiArtNFT.app**

1. Project Title: **AiArtNFT**
2. Website: **AiArtNFT.app**
3. QR Link: **<https://qr.io/r/2cQUSP>**
4. Color Scheme: **#40A9FF (Blue), #1A1A1D (Gray), other**
5. Logo: **Robot painter creating abstract art**
6. Fonts: **Roboto**

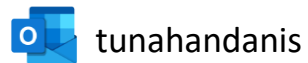
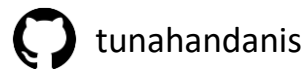




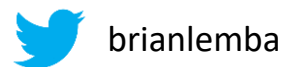
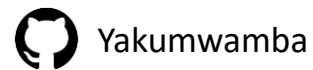
# Team



Tunahan  
Daniş



Brian  
Lemba



Gürdal  
Ertek





AiArtNFT.app

**Live Dapp:**

<https://qr.codes/qhGiWz>



GitHub Page

**GitHub:**

<https://qr.link/dQcw73>

# Live Demo

