ITP 303 Final Project Summary

INSTRUCTIONS: Type out your answer directly below each question. If a question does not apply to your project, type in N/A. When finished, save this file as a PDF and upload it to the itpwebdev server via FileZilla. Then, add a link to this PDF in your student_page.html. Label it "Final Project Summary."

BASICS

Your name?

Todd Gavin

What is the topic of your final project?

NFT Wallet Blockchain Explorer

Who is the intended audience?

NFT and crypto enthusiasts

Provide a brief summary of the functionalities of your project.

This web app is a blockchain explorer for NFTs in wallets on the Ethereum mainnet (ERC721 and ERC1155 Token NFTs). This website allows the user to enter an Ethereum wallet address and retrieve all of the Ethereum NFTs (metadata) in that specific wallet using a FETCH request to Alchmey's NFT API. Additonally, this web app supports CRUD functionality for NFTs where users can create NFTs, can edit NFTs, can delete NFTs, and can view the NFTs that they create from the SQL database.

FRONT-END

What is the total page count?

7 Pages in total for the front end. (Additonally, one JS file, and one CSS file.)

Distinct Pages:

- NFT-API.html
- Saved-NFTs.php
- Create-NFT-form.html
- Edit-NFT-form.php

List the names of any external stylesheet used in this project below.

nft.css

List any CSS libraries/frameworks used in this project (e.g. Bootstrap) below.

Boostrap

List any JavaScript libraries/frameworks used in this project below.

None used

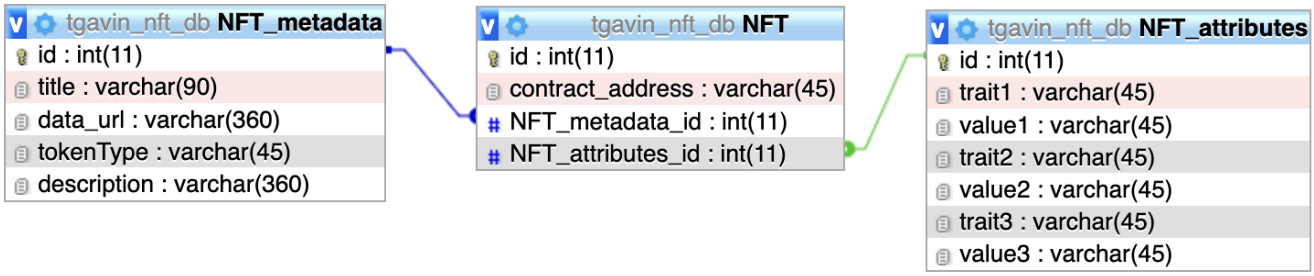
How does your project meet the Interactivity requirement?

Whenever a user hovers over the "Search Wallet" button on the main page after entering a wallet address, upon clicking on the button, JS is used to FETCH the API and retrieve all of the NFTs in that wallet. Check out file NFT-API.js file to see.

BACK-END

Attach a screenshot of the final database diagram (just the diagram, do not include any records) below.

tgavin_nft_db



Credentials to access the DB:

config.php

"DB_HOST", "303.itpwebdev.com"
"DB_USER", "tgavin_db_user"
"DB_PASS", "Stringking"
"DB_NAME", "tgavin_nft_db"

Where in your project do you insert a record to the database (the 'C' in CRUD)?

Create NFT - Creates an NFT record using a form and inserts its data into the SQL database.

Pages and Functionality:

Create NFT Button - Navigation Barr

Create NFT Form - Create-NFT-form.html

Create NFT Confirmation - Create-NFT-confirmation.php

Where in your project do you search and display record(s) from the database (the 'R' in CRUD)?

Read NFTs - Pulls NFT record data from the SQL database and displays it on the frontend for users to view.

Pages and Functionality:

View Saved NFTs Button - Navigation Bar

View Saved NFTs - Saved-NFTs.php

Where in your project do you update and existing record(s) the database (the 'U' in CRUD)?

Edit NFT - Allows the user to edit the data of a specific NFT record where it updates that respective NFTs data in the SQL database.

Pages and Functionality:

Edit NFT Button - Saved-NFTs.php

Edit NFT Form - Edit-NFT-form.php

Edit NFT Confirmation - Edit-NFT-confirmation.php

Where in your project do you delete existing record(s) from the database (the 'D' in CRUD)?

Delete NFT - Allows the user to delete an NFT record and its data from the SQL database.

Pages and Functionality:

Delete NFT Button - Saved-NFTs.php

Delete NFT Confirmation - Delete-NFT-confirmation.php

MISC

What two "extra" requirements did you implement and where can they be found?

Alchemy's NFT API - https://docs.alchemy.com/alchemy/enhanced-apis/nft-api

Note Professor Nayeon stated that if I was able to find a way to use this API (having taught myself FETCH), I will not be required to implement a second "extra" requirement.*

Here are some wallet addresses you can enter to test the API: (I recommend the one in yellow)

- Gabe's Hot Wallet: 0xd3A7D070720f3fb8A4932C7A02218337eC300fe4
- Gabe's Cold Wallet: 0x93358578c602bf4294e2ef39c12e45bd907ac16c
- const ownerAddr = 0xF5FFF32CF83A1A614e15F25Ce55B0c0A6b5F8F2c
- const ownerAddr = 0xC33881b8FD07d71098b440fA8A3797886D831061
- const ownerAddr = 0xdaAF5F4d339006ea87960f79a08027B4fD3d7Eb1

If you used any APIs or JS plugins/frameworks as one of the extra requirements, list the name and a link to their documentation.

Alchemy's NFT API - https://docs.alchemy.com/alchemy/enhanced-apis/nft-api

If your project requires any admin credentials (i.e. only admin users can access a certain page), list the credentials below.

This project does not require admin credentials.

Provide any other information that you think the grader/instructor should know when grading your final project below.

File hierarchy and breakdown here:

- *Home Page:* NFT-API.html
- *Saved NFTs Page:* Saved-NFTs.php
    - Edit-NFT-form.php
        - Edit-NFT-confirmation.php
    - Delete-NFT-confirmation.php
- *Create NFT Page:* Create-NFT-form.html
    - Create-NFT-confirmation.php
- *CSS External Style Sheet*: nft.css
- *JS file to perform API FETCH*: NFT-API.js
- *config file:* config.php
- *images:* NFTS.png

Here is the link to my Initial Final Project Proposal: ITP303: Final Project Proposal - Final