Smart Internz

Project Report Titles

1 INTRODUCTION

1.1 Overview

A brief description about your project-

NFTs are designed as way for digital files to be secured in a way that ensure ownership and create scarcity.

Essentially, NFTs can represent any form of digital file, whether that's a jpeg of a piece of art, a video, or even real estate. Turning these files into 'tokens' and securing them on a Block chain make buying, selling and trading these files efficient and reduce fraud.

->Our team INFUSIONERZ has created a NON-FUNGIBLE TOKEN analytics dashboard which analysis growth of the NFTs bought.

1.2 Purpose

The use of this project is to get the idea based on which NFTs in trending market with real time data buyer should buy.

It aims at gaining the profit by the seller

2 LITERATURE SURVEY

2.1 Existing problem

The objective of this solution is to create dashboard that can visualize NFT Data and grab insights from it that can help buyers as well as Sellers.

2.2 Proposed solution

To present our idea we have first researched what are non fungible tokens and how it works , we added a particular section that " **which combination of NFTs will be more feasible to buy generating maximum** profit **according to your budget** ", graphs ,depicted market price , then we came to a final solution how our working model should work .

THEORITICAL ANALYSIS

2.3 Hardware / Software designing

software :

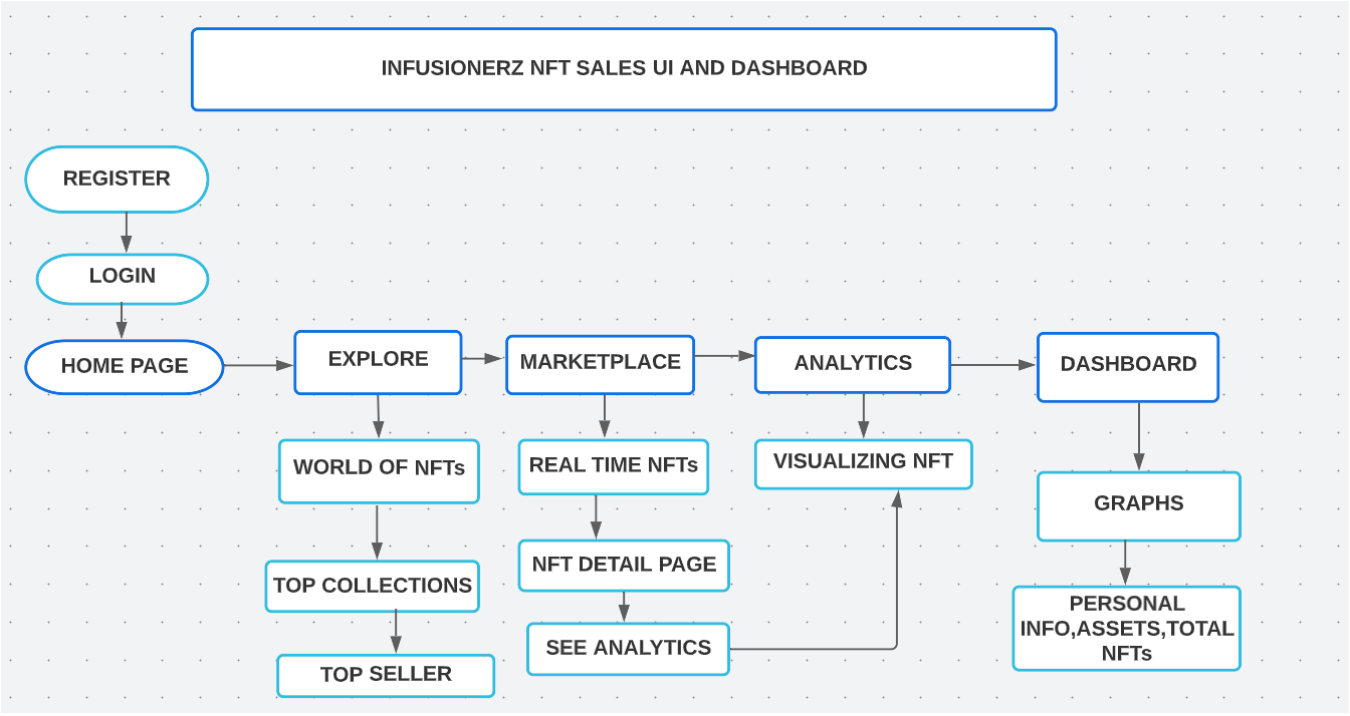
BACK-END:
Machine Learning
Python
API
FRONT-END:
bootstrap HTML CSS
Java Script
react js
TOOLS:
Anaconda navigator
Jupyter notebook
IBM cloud

3 EXPERIMENTAL INVESTIGATIONS

Visited various NFT sites such as crypto.com , etherium.com ,etheriumscan , apireservoir etc. ,looked the analytics dashboards of these sites

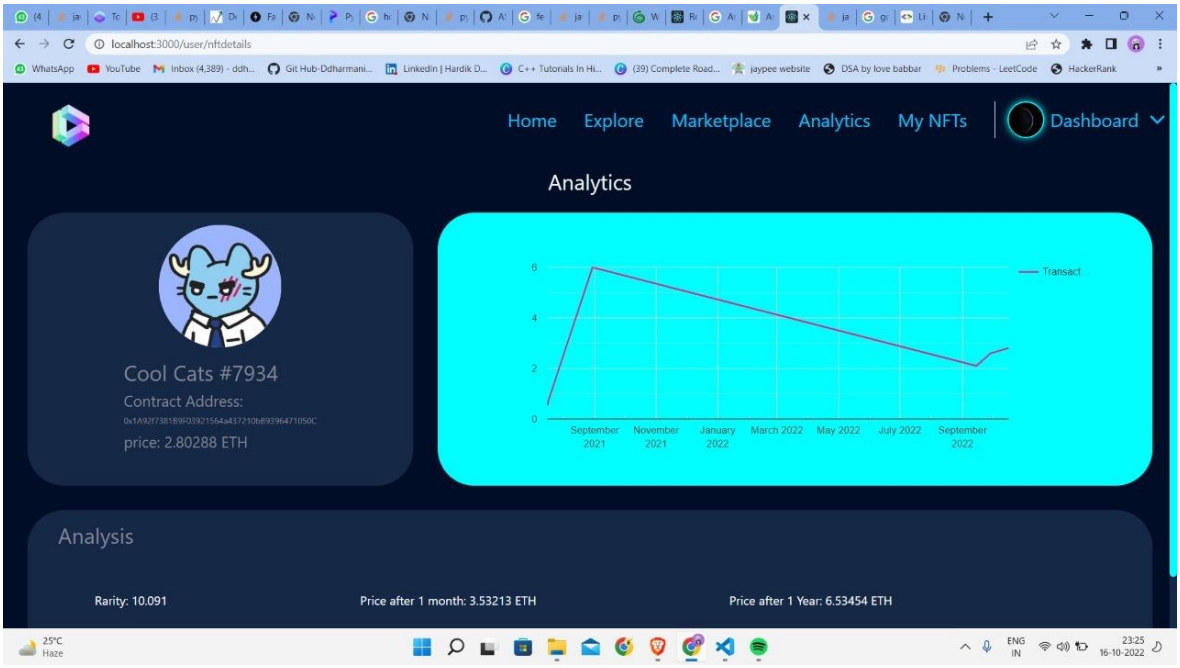
4 FLOWCHART

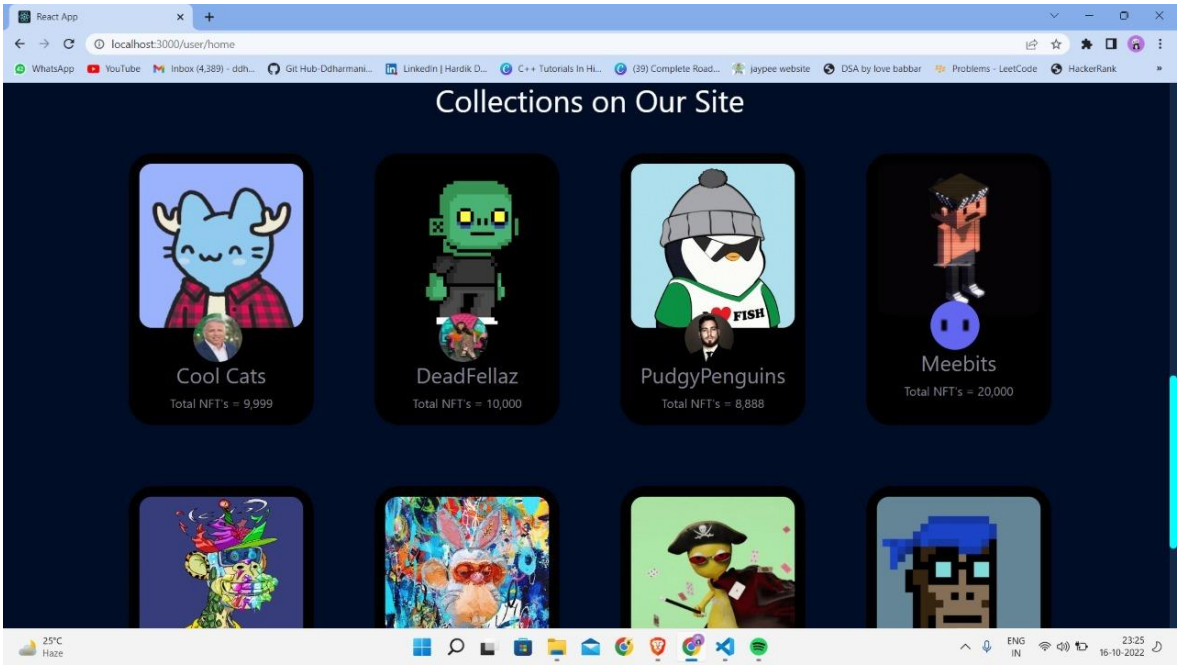
https://lucid.app/lucidspark/c4215c93-867e-4493-a0fa-02acaee7afca/edit?viewport_loc=-111%2C-155%2C2034%2C998%2C0_0&invitationId=inv_14cd1b6c-b35b-438f-84c0-a4e2e385b96e



5 RESULT

F


localhost:3000/user/nftdetails
Home
Explore
Marketplace
Analytics
My NFTs
Dashboard
Analytics
Cool Cats #7934
Contract Address:
price: 2.80288 ETH
Transact
September 2021
November 2021
January 2022
March 2022
May 2022
July 2022
September 2022
Analysis
Rarity: 10.091
Price after 1 month: 3.53213 ETH
Price after 1 Year: 6.53454 ETH


localhost:3000/user/home
Collections on Our Site
Cool Cats
Total NFT's = 9,999
DeadFellaz
Total NFT's = 10,000
PudgyPenguins
Total NFT's = 8,888
Meebits
Total NFT's = 20,000

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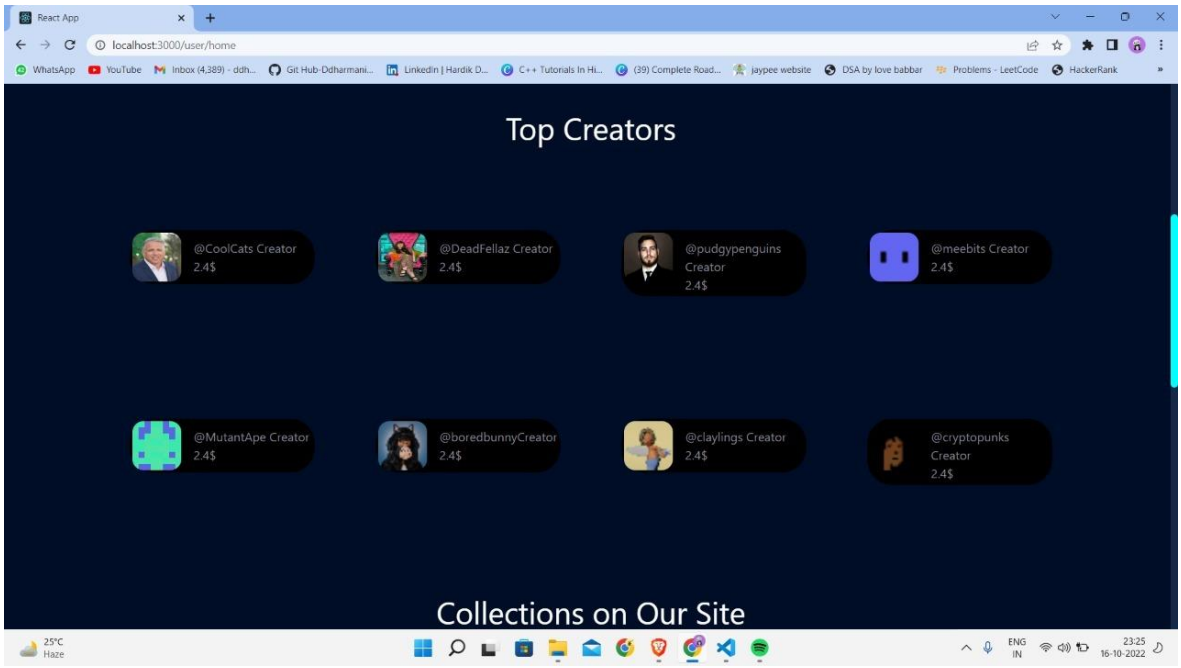

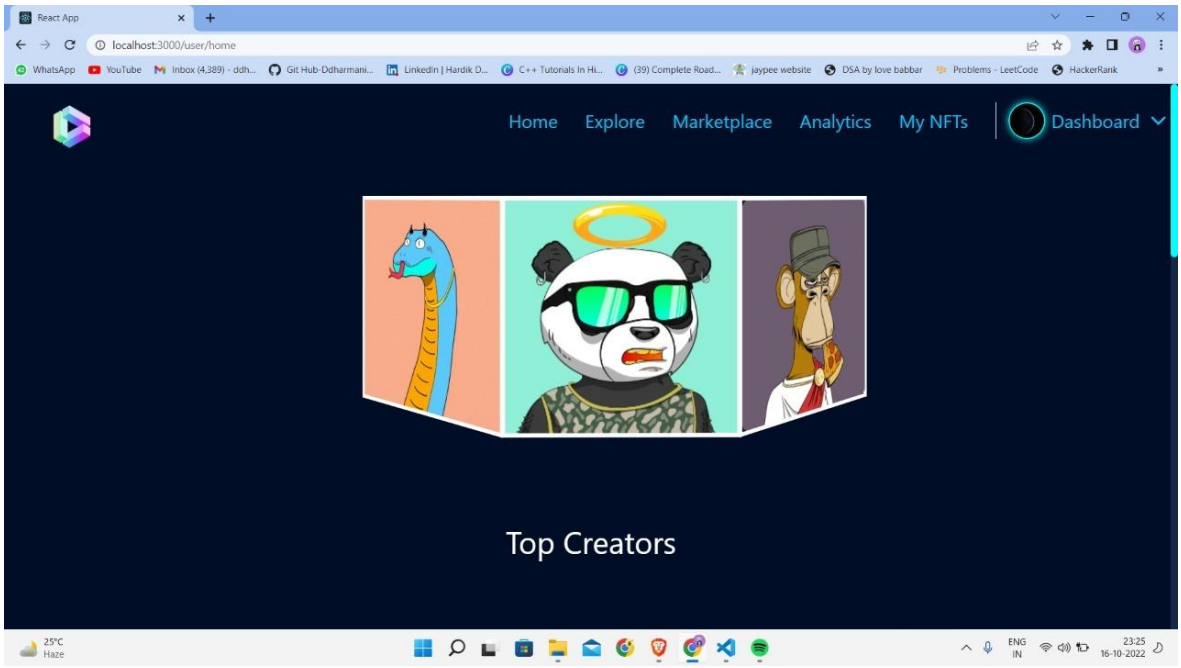

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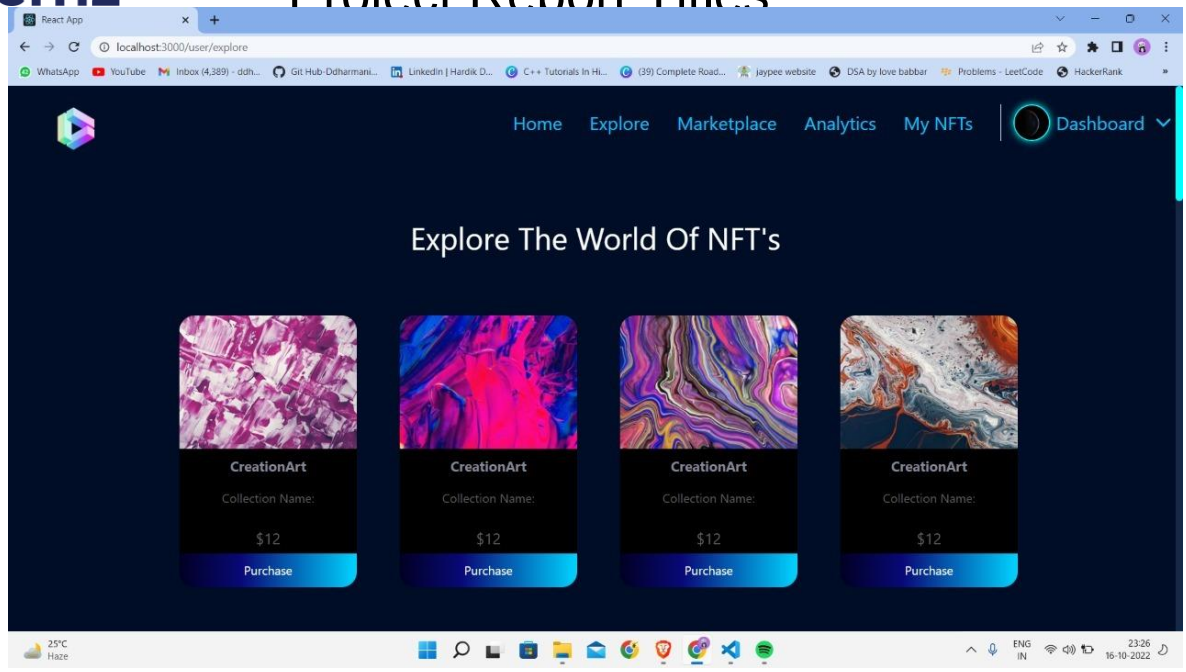

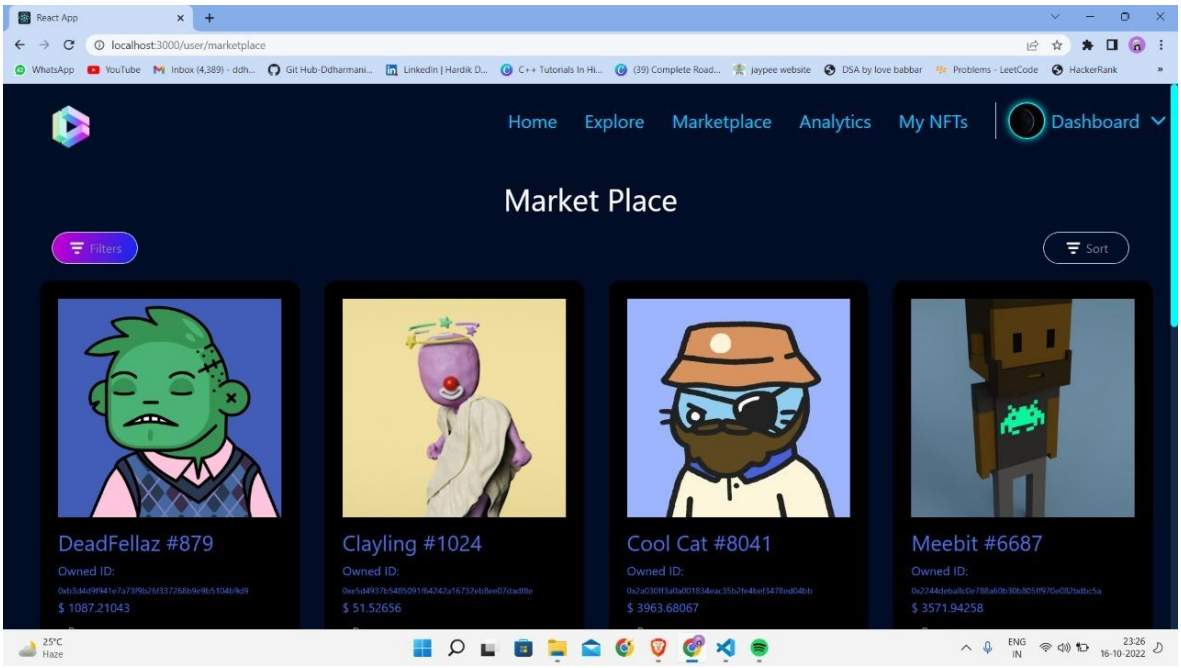

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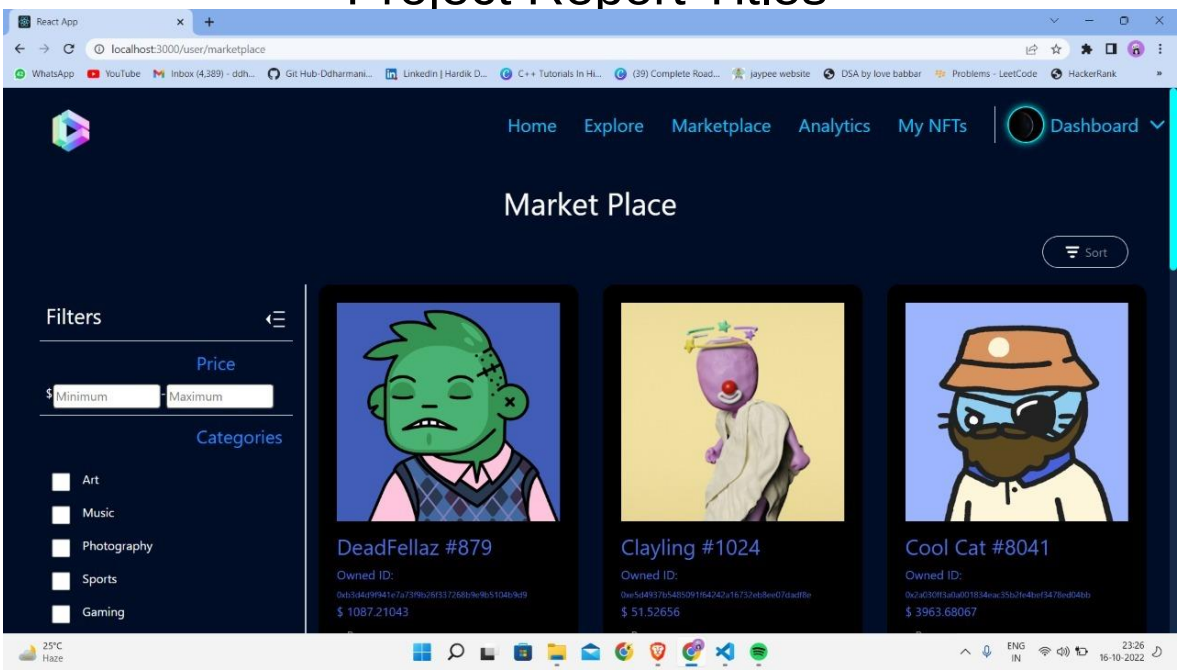

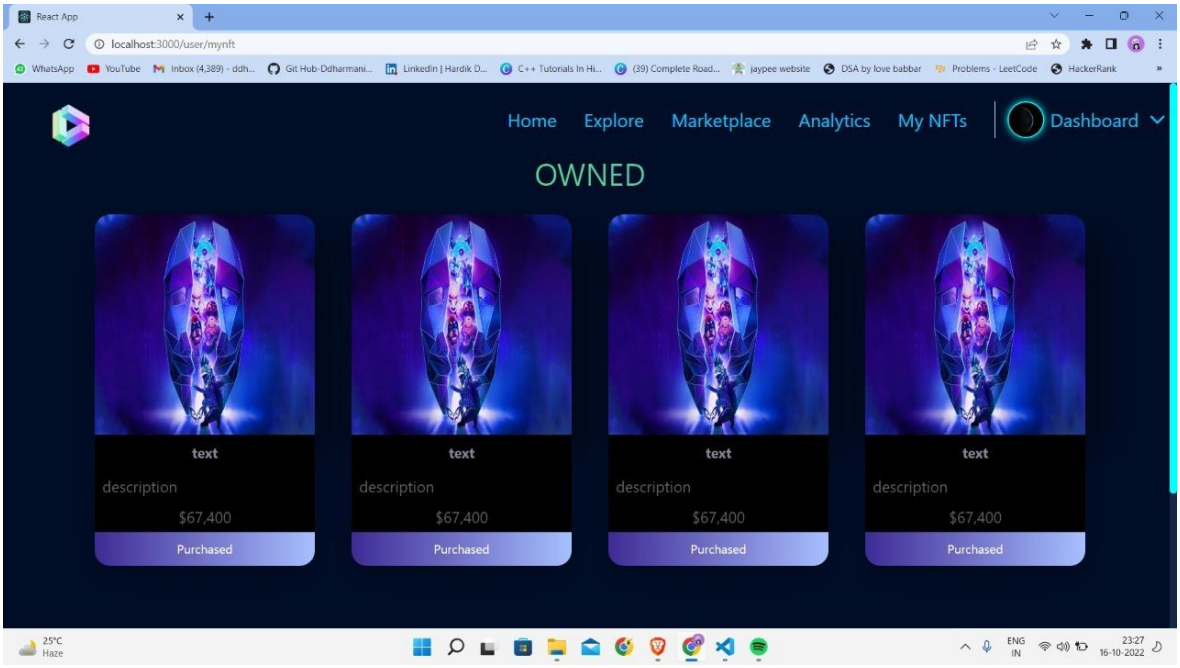

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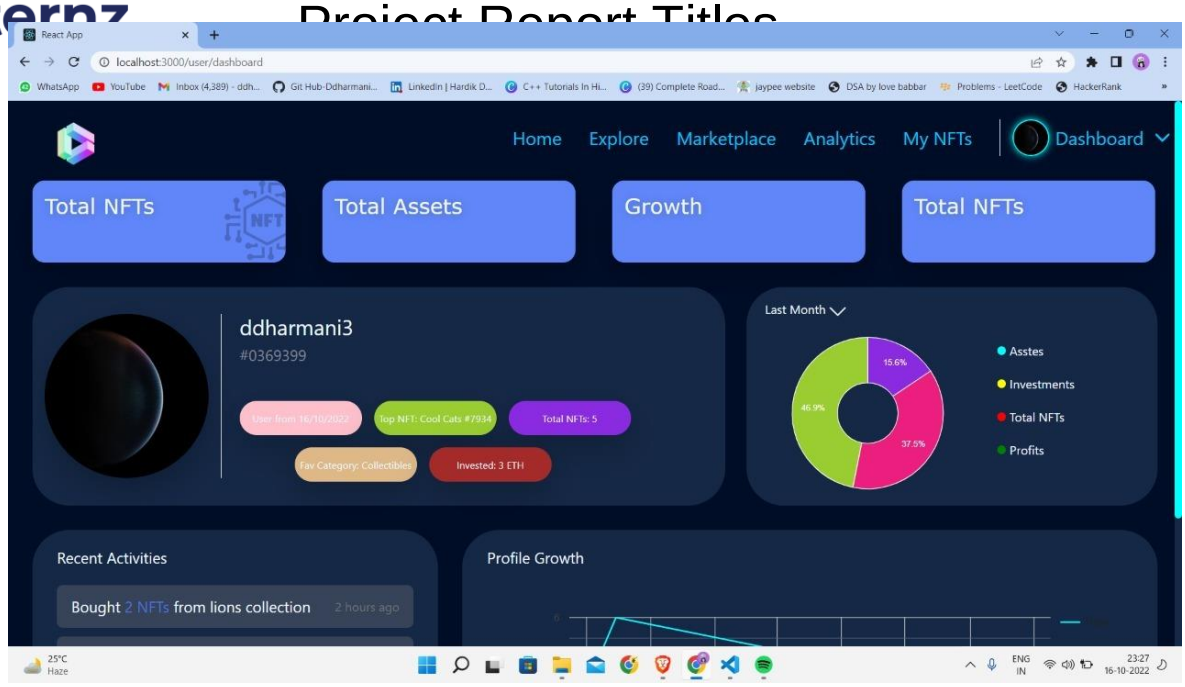

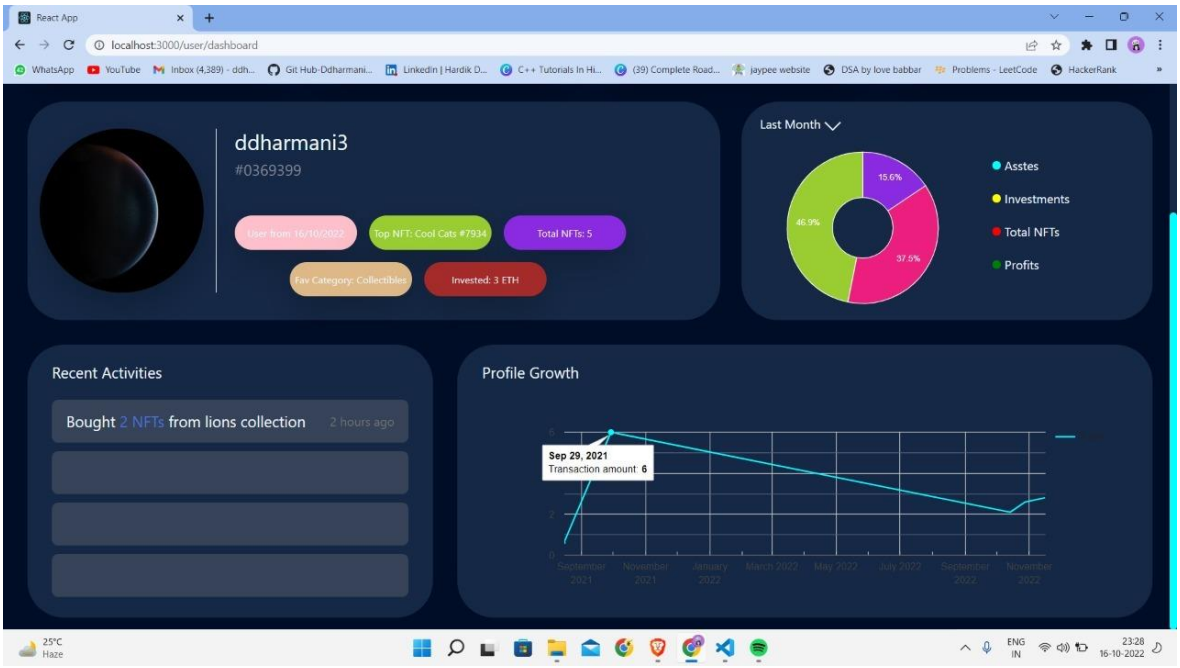

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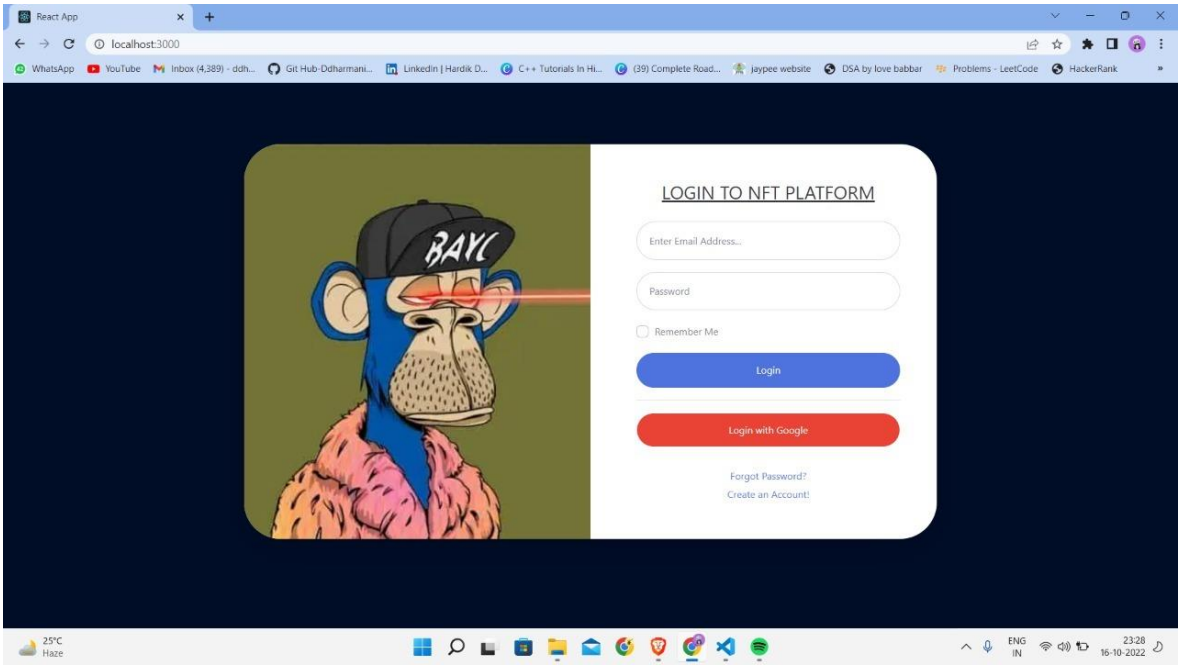

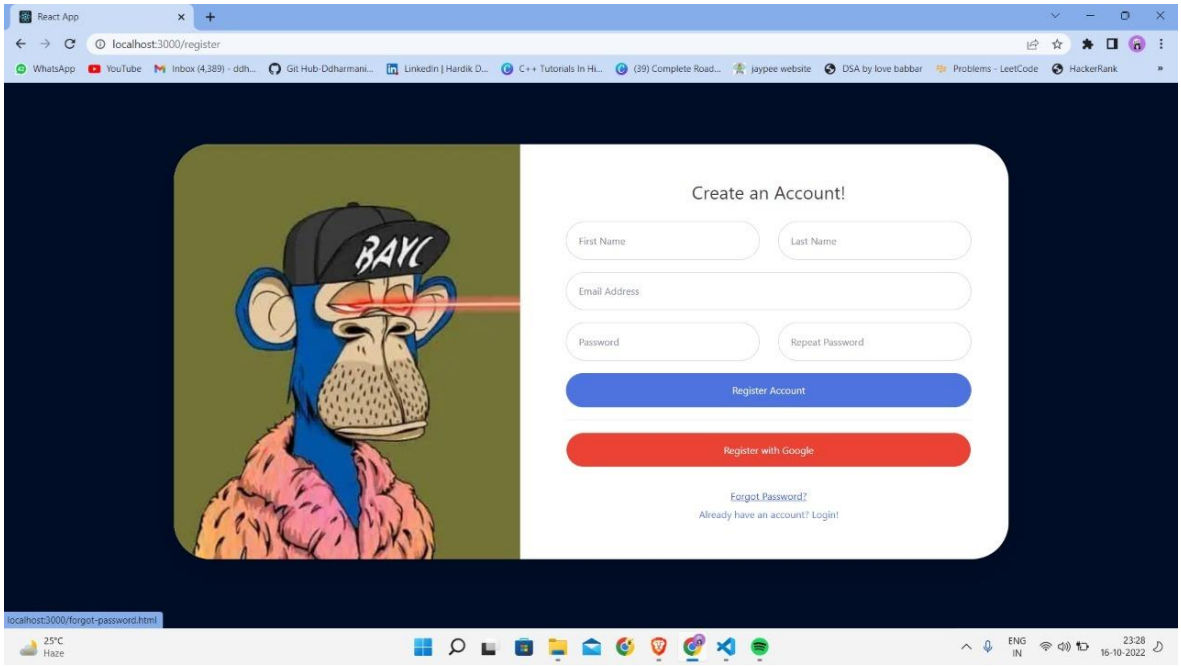

1) Growth of various NFT's shown on the website leads to more engagement of its selling in the market.
2) To make the creator know their true potential and make their art-work more reachable in the market.
3) To make the profits of the buyers and giving them the analysis of the trending and profitable NFT's ultimately making their profits.

7 APPLICATIONS

1) This is applicable to various NFT's selling website where the buyers find themselves **profitable in buying and selling the NFT's as it provides:-**

- The Detailed Analysis of the NFT's **graph drawn between NFT-PRICE and timestamp.**
- Whether A buyer should buy that particular NFT based upon its history.

2) Can be **sold as a website for a STARTUP which gives NFT GRAPH AND FUTURE PREDICTIONS WITH GRAPH** to buy a NFT for a buyer and a make the profits for a seller in the market.
3) **Help businesses and consumers of its own.**

8 CONCLUSION

Hence, we came to the conclusion where our website finds the best place in the market using our **DASHBOARD** for **proper analysis of NFT's** whether a buyer should buy a particular NFT according to its budget and proper Analysis of the growth of the NFT's in its history **where user can BUY and SELL the particular NFT's in the market** and we plotted the **graph between NFT-PRICE and its TIMESTAMP**, in the **REAL TIME DATA through FETCHING THE DATA THORUGH API** IN OUR WEBSITE and showing its analysis at that point of the time.

9 FUTURE SCOPE/IMPACT

- It will **popularize and recognize its true potential** and worth of its art(artist).
- It will **allow more and more people to enter into NFTs** space to make their more profits.
- It brings **exclusive products into the realm**—engaging new customers while generating a potential windfall of money.
- We will **help businesses and consumers taking back control of owning their stuff, crucial for participating in the global financial system**, especially for those who are excluded from it.
- The verification process can be made quick and seamless as it will avoid lot of documentation process and work for the firms.

10 BIBILOGRAPHY

1) https://developer.ibm.com/learningpaths/get-started-watson-studio/
2) for using the Juptyer Notebook
3) https://etherscan.io/-
4) for contract address and each nft details
5) https://developers.google.com/chart/interactive/docs/gallery/linechart

google charts for making charts through api and fetching the data from the website for analysis of the data

6) https://www.theblock.co/data/nft-non-fungible-tokens/nft-overview

for taking the idea for the graphs of the NFT's

7) https://docs.reservoir.tools/reference/getcollectionv2

for taking the api of the NFT's that we want to analyse,
For Real- Time Data

https://dev.to/codegino/how-to-fetch-nft-collection-using-javascript-and-opensea-api-2ij8

for taking the idea and knowledge about how the NFT's work and idea of their collections

8) https://www.infragistics.com/products/ignite-ui-react/react/components/charts/types/line-chart

getting about how the graphs work with REACT JS

9) https://towardsdatascience.com/deploying-a-machine-learning-model-as-a-rest-api-4a03b865c166

deploy machine learning model as a REST API

10) https://www.analyticsvidhya.com/blog/2021/10/interactive-plots-in-python-with-plotly-a-complete-guide/

getting idea about graphs in Python

11) https://www.quicknode.com/docs/ethereum/qn_fetchNFTsByCollection

fetching NFT's Collections Available in the Market

References:-

https://www.kaggle.com/datasets/mathurinache/opensea-collections

for getting the references for the api

APPENDIX

A. Source Code

https://github.com/smartinternz02/SBSPS-Challenge-9554-NFT-Sales-Analytics-Dashboard/tree/main/ML%20Model%20FAST%20API

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VIDEO LINK:
https://drive.google.com/file/d/1KSfrVNi0GUhAlYqfpdFtvFOqsoWIsNZD/view?usp=sharing