



Swami Keshvanand Institute of Technology, Management & Gramothan
Ramnagar, Jagatpura, Jaipur

Department of Information Technology
Major Project – VIII Semester (2022-23)

ABSTRACT

Title: NFT Sales Analytics Dashboard

The Market Overview NFT data analytics dashboard provides a rundown of the NFT collections and the fluctuations in their floor price. This allows investors to track trends within the NFT sphere and gauge the general sentiment. By filtering by the change in floor price, investors can find NFT collections rising in prominence and mint or purchase them. Library where users can see the Trending NFTs, Recently Added NFTs, with various functionalities like searching, sorting, filters on Genres, Categories etc. for quickly accessing the NFTs. The project focuses on analyzing the data of NFT's and making a live dashboard with the most recent sales of NFT's. The Dashboard contains different visualizations showing the data related to NFT collections, prices, transactions and Market cap.

Analytics dashboards and reports can be created to know more about NFT. By using analytics tools to identify patterns and discrepancies, traders, builders, and collectors can gain a competitive edge in a brand new market. In fact, in the world of blockchain, whether as an investor or a beginner, you can rely on data to stay away from "hearsay" and decide which NFT to buy by yourself.

The project can be easily implemented under various situations. We can add new features as and when we require, making reusability possible as there is flexibility in all the modules. The language used for developing the project is python as it is quite advantageous than other languages in terms of performance, tools available, cross platform compatibility, libraries, cost (freely available), and development process.

Technology used: MongoDB, Express, React, NodeJs

Project Members:

Jagrati Sharma (19ESKIT033)

Jitendra Kumar Prajapat (19ESKIT037)

Karan Sabnani (19ESKIT038)

Komal Soni (19ESKIT044)

Submitted to:

Mrs. Anjali Pandey
Assistant Professor

MAJOR / MINOR PROJECT ABSTRACT [Form - 1] (YEAR - 2022-23)

NAME OF LAB COORDINATOR: Mrs. Sanjay Chaudhary

TITLE OF PROJECT: NFT Sales Analytics Dashboard

PROJECT TRACK: (Tick the appropriate one / ones)

1. R&D (Innovation)	2. CONSULTANCY (Fetched from Industry)	3. STARTUP (Self-Business Initiative)	4. PROJECT POOL (From IBM / INFOSYS)	5. HARDWARE / EMBEDDED
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BRIEF INTRODUCTION OF PROJECT:

The NFT market is booming now. According to NFT statistics, at least one NFT project has launched on chain every day since its launch. The quality of NFT is varied and investors may easily fall into the "liquidity trap". In fact, whether as an investor or a beginner, you can rely on data to stay away from "herd" and decide which NFT to buy, by yourself. Analytics dashboard and reports can be created to know more about NFT. By using this tool, user can gain a competitive edge in brand-new market. The objective of this solution is to create dashboard that can visualize NFT data and grab insights from it. **TOOLS / TECHNOLOGIES TO BE USED:** that can help buyers as well as sellers.

NAME OF TOOL / TECHNOLOGY	VERSION	SOFTWARE / HARDWARE	PURPOSE OF USE
GitHub	3.8.0	Software	To manage project version on cloud
MongoDB Cluster	6.0	software	To store and manage project data pool
Figma	33.4.0	Software	To create designs for project UI

PROPOSED PROJECT MODULES:

NAME OF MODULE	PROPOSED FUNCTIONALITY IN PROJECT
User Registration	Authenticates an existing user or Registration of new
Dashboard	Presents a graphical representation on NFT's
NFT Overview	Display a list of NFTs with their properties
Collections Overview	Display a list of collections with their properties

TEAM MEMBER DETAILS:

STUDENT NAME	CLASS & GROUP	MOBILE No.	EXPERTISE AREA	ROLE IN PROJECT
Karan Sahani	VIII sem IT-A-62	9353224034	Backend development	Backend creation & Integration
Jitendra Kumar	VIII sem IT-A-62	6377403655	Data management	Data management
Jagrati Sharma	VIII sem IT-A-62	7726984268	UI development, design	UI design & frontend
Komal soni	VIII sem IT-A-62	7340233918	Backend management	Backend management

NOTE: 1. This form is to be submitted by a team of maximum 4 students in the starting of semester to lab coordinator.
2. Students must keep a Xerox copy of this form as reference for project work and attach it to final report.

ROLE SPECIFICATION OF TEAM MEMBERS [Form – 2]

MEMBER 1 <u>Karan Sahani</u>		HANDLING MODULE <u>User Registration module</u>	
NAME OF ACTIVITY	SOFT DEADLINE DATE	HARD DEADLINE DATE	DETAILS OF ACTIVITY (STORY)
Data Collection	15/01/23	18/01/23	Collecting data from different resources
Creation of Modules in Backend	25/01/23	28/01/23	Creating modules for each table in database
Creation of APIs	28/02/23	04/03/23	Creating API for fetching data from database
Data Seeding	12/04/23	15/04/23	Added initial data to the database
Added Login/Logout pages	25/04/23	27/04/23	Added Login/Logout pages and integrated APIs
Adding JWT Authentication	30/04/23	02/05/23	Added Authentication of APIs
Data Processing	10/05/23	13/05/23	Created functions to process data for dashboard analysis

MEMBER 2 <u>Jagrati Sharma</u>		HANDLING MODULE <u>Dashboard module</u>	
NAME OF ACTIVITY	SOFT DEADLINE DATE	HARD DEADLINE DATE	DETAILS OF ACTIVITY (STORY)
Data Collection	15/01/23	18/01/23	Collecting data from different resources
Design Dashboard UI	25/01/23	28/01/23	Design the Dashboard page
Creation of frontend	28/02/23	04/03/23	Created frontend using ReactJS and Chakra UI
Added Routing	15/04/23	17/04/23	Added routes for different pages in application
Creation of Dashboard graphs	30/04/23	20/05/23	Created different graphs to show data analysis
API Integration on Dashboard	15/05/23	17/05/23	Integrate API to fetch data.

MEMBER 3 <u>Jitendra Kumar Bajapat</u>		HANDLING MODULE <u>Collection module</u>	
NAME OF ACTIVITY	SOFT DEADLINE DATE	HARD DEADLINE DATE	DETAILS OF ACTIVITY (STORY)
Data Collection	15/01/23	18/01/23	Collecting data from different resources
Added Collection related data	20/01/23	03/02/23	Added various Collections with their properties
Added transaction data	28/02/23	04/03/23	Added transaction of NFTs
Creation of collection page	20/04/23	25/04/23	Created a collection page to display collection list
API Integration	02/05/23	05/05/23	Integrate API to fetch data
Added Search functionality	12/05/23	15/05/23	Added search filter of collection list.

MEMBER 4 <u>Komal Soni</u>		HANDLING MODULE <u>NFT module</u>	
NAME OF ACTIVITY	SOFT DEADLINE DATE	HARD DEADLINE DATE	DETAILS OF ACTIVITY (STORY)
Data Collection	15/01/23	18/01/23	Collecting data from different resources
Added NFT related data	20/01/23	03/02/23	Added various NFT with their properties
Dynamic import of images	14/04/23	17/04/23	Added dynamic import of images on frontend
Creation of NFT pages	20/04/23	25/04/23	Created NFT page to display a list of NFTs
API Integration	02/05/23	05/05/23	Integrate API to fetch data
Adding search functionality	12/05/23	15/05/23	Added search filter of NFT list.

MENTOR'S NAME & SIGNATURE ANJALI PANDEY (sig)

- NOTE:**
1. This form is to be submitted by a team of maximum 4 students in the starting of semester to lab coordinator.
 2. Every member student must keep a Xerox copy of this form as reference for his / her part in project work.
 3. Students must provide the detailed list of planned activities along with their completion deadline dates.
 4. The lab coordinator will check the weekly progress of student against the information provided in this form.

Form-3
PROJECT WEEKLY STATUS MATRIX (FOR PROJECT MENTORS)

NAME OF STUDENT - 1		Karam Sabnam		
NAME OF PROJECT		NFT Sales Analytics Dashboard		
OTHER TEAM MEMBERS		2. Jagrat sharma	3. Jitendra Kumar	4. Karan Soni
WEEK (TO-FROM)	WORKING ON MODULE	PROGRESS ACHIEVED	COMMENTS	MARKS (X / 10)
15/01/23 to	User Registration	Data Collected		
18/01/23	module			
25/01/23 to	User Registration	Created a module	all ok	9/10 <i>dy</i>
28/01/23		in Backend		
28/02/23 to	User Registration	Created a APIs	Add login/logout page	8/10 <i>dy</i>
04/03/23				
13/04/23	User Registration	Data Seeding		
15/04/23				
15/04/23 to	User Registration	Added Login/Logout	Verify authentication	9/10 <i>dy</i>
27/04/23		pages		
27/04/23 to	User Registration	Added JWT		
02/05/23		Authentication		
02/05/23 to	Dashboard	Data Processing		
12/05/23				
TOTAL WEEKS	MODULE COMPLETED (YES / NO)	OVERALL PROGRESS (POOR / AVG / GOOD)	OVERALL COMMENT (POOR / AVG / GOOD)	PERCENTAGE MARKS ESTIMATE
LAB COORDINATOR's remarks & Signature _____				

- NOTE:**
1. This form is to be maintained in a file by lab coordinators for student - 1 of the team to track his / her progress.
 2. Lab coordinators must cross check and evaluate the PROGRESS ACHIEVED - it's DOCUMENTATION by student against the work done by student and note their own comments about student's performance.
 3. The lab coordinator must evaluate student's work for every lab from a score of 10 points.
 4. The lab coordinator must compute average of these points at the end of semester to draw an estimate of the PERCENT MARKS to be awarded to the student for his / her performance.
 5. The lab coordinator must IMMEDIATELY CONTACT MENTOR FACULTY of student in case of POOR PERFORMANCE or 2 CONTINUOUS ABSENCE from lab.
 6. In case of absence, 00 / 10 MARKS will be awarded if the mentioned work is not presented in next lab by student.

Form-3

PROJECT WEEKLY STATUS MATRIX (FOR PROJECT MENTORS)

NAME OF STUDENT - 2		Jagrati Sharma		
NAME OF PROJECT		NFT Sales Analytics Dashboard		
OTHER TEAM MEMBERS		1. Karan Sabnani	3. Jitendra Kumar	4. Kemal Soni
WEEK (TO-FROM)	WORKING ON MODULE	PROGRESS ACHIEVED	COMMENTS	MARKS (X / 10)
15/01/23 to	Dashboard	Data Collected		
18/01/23				
18/01/23 to	Dashboard	Designed Dashboard	all ok	9/10
28/01/23		UI		
28/01/23 to	Dashboard	Created		
04/03/23		frontend	add graphs	8/10
04/03/23 to	Dashboard	Added		
17/04/23		Routing		
17/04/23 to	Dashboard	Created Dashboard	add search bar &	9/10
30/04/23		graph	add category wise search	
30/04/23 to	Dashboard	API Integration		
17/05/23		on Dashboard.		
	Dashboard			
TOTAL WEEKS	MODULE COMPLETED (YES / NO)	OVERALL PROGRESS (POOR / AVG / GOOD)	OVERALL COMMENT (POOR / AVG / GOOD)	PERCENTAGE MARKS ESTIMATE
LAB COORDINATOR's remarks & Signature _____				

- NOTE:** 1. This form is to be maintained in a file by lab coordinators for student - 2 of the team to track his / her progress.
2. Lab coordinators must cross check and evaluate the PROGRESS ACHIEVED + it's DOCUMENTATION by student against the work done by student and note their own comments about student's performance.
3. The lab coordinator must evaluate student's work for every lab from a score of 10 points.
4. The lab coordinator must compute average of these points at the end of semester to draw an estimate of the PERCENT MARKS to be awarded to the student for his / her performance.
5. The lab coordinator must IMMEDIATELY CONTACT MENTOR FACULTY of student in case of POOR PERFORMANCE or 2 CONTINUOUS ABSENCE from lab.
6. In case of absence, 00 / 10 MARKS will be awarded if the mentioned work is not presented in next lab by student.

Form-3
PROJECT WEEKLY STATUS MATRIX (FOR PROJECT MENTORS)

NAME OF STUDENT - 3		Jitendra Kumar Prajapat		
NAME OF PROJECT		NFT Sales Analytics Dashboard		
OTHER TEAM MEMBERS		1. Karan Sahani	2. Jagrati sharma	4. Komol. Sori
WEEK (TO-FROM)	WORKING ON MODULE	PROGRESS ACHIEVED	COMMENTS	MARKS (X / 10)
15/01/23 to 15/04/23	Collection	Data Collected		
18/01/23 to 03/02/23	Collection	Added Collection related Data	All OK	9/10 <i>dy</i>
03/02/23 to 04/03/23	Collection	Added transaction data		
04/03/23 to 15/04/23	Collection	Created Collection page	Add currency	8/10 <i>dy</i>
15/04/23 to 05/05/23	Collection	API Integration	Date of creation should be after 2015	9/10 <i>dy</i>
05/05/23 to 15/05/23	Collection	Added Search functionality.		
TOTAL WEEKS	MODULE COMPLETED (YES / NO)	OVERALL PROGRESS (POOR / AVG / GOOD)	OVERALL COMMENT (POOR / AVG / GOOD)	PERCENTAGE MARKS ESTIMATE
LAB COORDINATOR's remarks & Signature _____				

- NOTE:**
1. This form is to be maintained in a file by lab coordinators for student - 3 of the team to track his / her progress.
 2. Lab coordinators must cross check and evaluate the PROGRESS ACHIEVED + it's DOCUMENTATION by student against the work done by student and note their own comments about student's performance.
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 4. The lab coordinator must compute average of these points at the end of semester to draw an estimate of the PERCENT MARKS to be awarded to the student for his / her performance.
 5. The lab coordinator must IMMEDIATELY CONTACT MENTOR FACULTY of student in case of POOR PERFORMANCE or 2 CONTINUOUS ABSENCE from lab.
 6. In case of absence, 00 / 10 MARKS will be awarded if the mentioned work is not presented in next lab by student.

Form-3
PROJECT WEEKLY STATUS MATRIX (FOR PROJECT MENTORS)

NAME OF STUDENT - 4		Komal Soni		
NAME OF PROJECT		NFT sales Analytics Dashboard		
OTHER TEAM MEMBERS		1. Karan Sabhani	2. Jyoti Sharma	3. Jitendra Kumar
WEEK (TO-FROM)	WORKING ON MODULE	PROGRESS ACHIEVED	COMMENTS	MARKS (X / 10)
15/04/23 to 18/04/23	NFT module	Data Collected	Rarity of	9/10 <i>dy</i>
18/04/23 to 03/05/23	NFT module	Added NFT related Data		
03/05/23 to 17/05/23	NFT module	Dynamic import of Images		
17/05/23 to 25/05/23	NFT module	Creation of NFT Pages	add search bar	9/10 <i>dy</i>
25/05/23 to 05/06/23	NFT module	API Integration		
05/06/23 to 15/06/23	NFT module	Added Search functionality.	add a blog for how to create own NFT	8/10 <i>dy</i>
TOTAL WEEKS	MODULE COMPLETED (YES / NO)	OVERALL PROGRESS (POOR / AVG / GOOD)	OVERALL COMMENT (POOR / AVG / GOOD)	PERCENTAGE MARKS ESTIMATE
LAB COORDINATOR's remarks & Signature _____				

- NOTE:**
1. This form is to be maintained in a file by lab coordinators for student - 4 of the team to track his / her progress.
 2. Lab coordinators must cross check and evaluate the PROGRESS ACHIEVED + it's DOCUMENTATION by student against the work done by student and note their own comments about student's performance.
 3. The lab coordinator must evaluate student's work for every lab from a score of 10 points.
 4. The lab coordinator must compute average of these points at the end of semester to draw an estimate of the PERCENT MARKS to be awarded to the student for his / her performance.
 5. The lab coordinator must IMMEDIATELY CONTACT MENTOR FACULTY of student in case of POOR PERFORMANCE or 2 CONTINUOUS ABSENCE from lab.
 6. In case of absence, 00 / 10 MARKS will be awarded if the mentioned work is not presented in next lab by student.