

Internship Project Report On
A Project Based on YARD MANAGEMENT SYSTEM using Django

A report submitted as part of the Industrial Orientation Training in IT&ERP Department,

Visakhapatnam Steel Plant

By

REDLAM RAVISAMPATH SRIRAM SANTOSH



Trainee No:100027842

Department of Computer Science Engineering

Under the guidance of

**Mr.K.Dilip
(Sr. Manager)
IT&ERP Dept**



RASTRIYA ISPAT NIGAM LIMITED(RINL), VISAKHAPATNAM

(Duration:4 Jan 2024 to 27 April 2024)

CERTIFICATE

This is to certify that the following student of JNTU-GV, Vizianagaram is engaged in the project work titled YARD MANAGEMENT SYSTEM using Django from 4th January 2024 to 27th April 2024

REDLAM RAVISAMPATH SRIRAM SANTOSH

TR NO:100027842

In partial fulfilment of the degree BACHELOR OF TECHNOLOGY in Computer Science and Engineering stream in JNTU-GV, Vizianagaram is a record of Bonafide work Carried out by him under the guidance and supervision during the period from 4th January 2024 to 27th April 2024

Date:

Place:

Mr.K.Dilip

(Sr. Manager)

IT&ERP Department

RINL-VSP

Acknowledgement

First of all, I thank God in words for his grace, who gave me the opportunity and strength to carry out this work. The success and outcome of this project required a lot of guidance and assistance from many people and we are incredibly privileged to have got this all along with the completion of our project

I take this opportunity to thank Mr. K.Dilip,Sr.Manager,IT&ERP Department, Visakhapatnam Steel Plant for guiding me with its immense knowledge and helping me complete this project successfully

I sincerely thank Mr. S.K. Mishra, GM I/C, IT&ERP Department, Visakhapatnam Steel Plant for investing his time in giving me an overview and helped me in completing the project successfully

I wish to express my sincere thanks to IT and ERP Dept. Employees of Visakhapatnam Steel Plant for their valuable guidance in completing this project

DECLARATION

I hereby declare that this project work entitled **A Project Based on YARD MANAGEMENT SYSTEM using Django** is original and has not been submitted to any university or college before fulfillment of the requirements of any course on study or to the award of any degree. The opinion is given, and the conclusion arrived at are of my own. The views expressed in the report do not represent the views of the organization

INDEX

SNO	Content	Page No
1	Abstract	6
2	An Introduction To VSP	7-8
3	Introduction About The Project	9-11
4	Website Overview	12-80
5	Conclusion	81
6	References	81
7	Glossary	81

Abstract

The report focuses on the usage of python libraries for storing and fetching the data also it fulfils the user requirements time to time by displaying the reports and dashboard and can be created,read,update and delete

The storage of data is done by using MYSQL database and the various python libraries are used under Django framework

Through this user interface we can easily connect with the steel plant and can get the required product in the required quantity of time. The main advantage of this website is it is easier to implement, and few lines of code are required for execution rather than traditional language. With the help of Django, we could not only fetch data but also can generate PDF, csv files also.

Introduction to VSP

BRIEF OVERVIEW:

Vishakhapatnam Steel Plant (VSP) is the integrated steel plants of Rashtriya Ispat Nigam Limited in Visakhapatnam which is founded in 1971 VSP strikes every one of with an excellence tremendous in all sense its of facets awe, in wonder scenic and beauty, amazement in as technology, presents in a manpower wide array by management and above all in product quality. On the coast of Bay of Bengal and the side of scenic Gangavaram beach, have risen tall and huge structures of technological architecture, the Visakhapatnam Steel Plant But the vistas of excellence do not rest with the inherent beauty of location over sophistication of technology they march ahead parading one aspect after another

The decision of the Government of India to set up an integrated steel plant at Visakhapatnam was announced by then Prime Minister Smt. Indira Gandhi in Parliament on 17th January 1971 VP is the first coastal based integrated steel plant of India is located, 16km west of city of destiny, Vishakhapatnam, bestowed with modern technologies, VSP has an installed capacity of 3 million tons per annum of liquid steel and 2 656 million tons of saleable steel. The saleable steel here is in the form of Wire rod coil, Structural, Special Steel, Rebars, Forged Rounds etc. At VSP there is emphasis on total automation, seamless integration and efficient up gradation, which result in wide range of long and structural products to meet stringent demands of discerning customers with India & abroad. SP product meets exalting international Quality Standards such as JIS, DIN, BIS, BS etc.

VSP has become the first integrated steel plant in the country to be certified to all the three international standards for quality (ISO-9001), for Environment Management (150 14001) & for Occupational Health & Safety (OHSAS-16001). The certificate covers quality systems of all operational, maintenance, service units besides purchase systems, Training and Marketing functions spreading over S Regional Marketing offices, 23 branch offices & 22 stock yards located all over the country VSP by successfully installing & operating efficiently Rs 460 crores worth of pollution and Environment Control Equipment and converting the barren landscape more than 3 million plants has made the steel plant, steel Township and VP exports Quality Pig Iron & Steel products Sri Lanka, Myanmar, Nepal, Middle East, USA & South East Asia (Pig front RINI VSP was awarded "Star Trading House" status chumg1997 2000. Having established a fairy dependable export market, VP plans to make continuous presence in the export market

Different sections at RINI VSP

- Coke oven and coal chemicals plant
- Sinter plant
- Blast Furnace
- Steel Mill Shop
- Continuous casting machine
- Light and medium machine mills
- Calcining and refractory materials plant
- Rolling mills
- Thermal power plant
- Chemical power plant
- Blast Furnace:

Hot Metal is produced in Blast furnaces which are tall vertical furnaces. The furnace is named Blast Furnace, it runs with the blast at high pressure and temperature Raw materials such as sinter Ore lumps, fluxes (limestone/ dolomite) and coke are charged from the top and hot Blast 1100 C 1300C and 5.745K SCH pressure is blown from the bottom. The furnaces are designed for 80% Sinter in the burden RINL-VSP has three 3200 Cubic Meter blast furnaces (most prominent in India) equipped with Petworth Bell less top equipment with conveyor charging Rightly named as "Godavari" & "Krishna" after the two rivers of A.P and the other furnace hasn't named yet. The furnaces will help VSP in bringing prosperity to the state of Andhra Pradesh

Provision exists for granulation of 100% liquid slag at blast furnace cast house and utilization of blast furnace gas at maximum pressure (15 to 2.0 atmospheric pressure) to generate 12 MV of power in each furnace turbines by employing gas expansion unit. The two furnaces with their novel circular cast house and four tap holes each are capable of producing 9720 Tons of hot metal daily or 34MT of four hot sulphur metal annually.

Introduction about the project

Central Dispatch Yard (CDY) plays an important role in the marketing operations. CDY facilitates smooth production at Mills by facilitating continuous evacuation of Mills products to central storage area by captive wagons, storage and subsequent transport by Road or preweighed products as per the dispatch plan to a central loading yard for loading of Railway wagons. This will help in prompt movement of materials from the plant to consumers/customers/end users thereby ensuring continuous evacuation from Mills and hassle-free production from plant production units and availability of materials.

CDY basically consists of

- (i) Unloading Yard (ULY) for unloading of products from Captive wagons
- (ii) Loading Yard (LY) for loading and handing over of railway wagons
- (iii) A central product Storage Yard (SY) in close vicinity of both ULY & LY
- (iv) Separate storage yard with fencing for storage of defective materials including SLPC Blooms
- (v) Straightening Yard for decoiling of TMT Rebar Coils.

I have created **YARD MANAGEMENT SYSTEM** using following technologies

1)FrontEnd (HTML, CSS, JS)

2)MiddleEnd (Django)

3)BackEnd (Database=MySQL)

HTML

HTML, or Hypertext Markup Language, is the standard markup language used to create and structure content on the web. It forms the backbone of web pages by defining the structure and layout of content such as text, images, videos, forms, and other elements that you see on websites.

HTML uses a system of tags (enclosed in angle brackets < >) to annotate different parts of the content. These tags define the meaning and purpose of each element. For example, <p> tags denote paragraphs, tags specify images, <a> tags create hyperlinks, <div> tags define divisions in content, and so forth.

CSS

CSS, or Cascading Style Sheets, is a stylesheet language used to describe the presentation and styling of HTML (and XML) documents. It defines how HTML elements are displayed on the screen, in print, or in other media types.

The primary purpose of CSS is to separate the content of a web page (defined in HTML) from its presentation aspects (defined in CSS). By using CSS, web developers can control attributes such as colors, fonts, spacing, layout, and positioning of HTML elements across multiple web pages.

JS

JavaScript is a versatile and popular programming language primarily used for creating dynamic and interactive effects within web browsers. It's an essential technology for web development, enabling developers to build complex features and functionalities that enhance user experience on websites and web applications.

Key aspects of JavaScript include:

1. **Client-Side Scripting:** JavaScript is primarily executed on the client-side (in the user's web browser), allowing developers to manipulate the content and behavior of web pages dynamically after they've loaded. This enables interactive features such as form validation, animations, dynamic content updates, and more.
2. **Core Functionality:** JavaScript provides essential programming features such as variables, data types, control structures (like loops and conditionals), functions, arrays, objects, and more. It supports event-driven programming, allowing developers to respond to user actions like clicks, mouse movements, keystrokes, etc.
3. **DOM Manipulation:** One of JavaScript's key strengths is its ability to manipulate the Document Object Model (DOM) of a web page. This means JavaScript can add, modify, or remove HTML elements, change CSS styles, and respond to user interactions directly within the browser.

Django

Django is a high-level web framework written in Python that encourages rapid development and clean, pragmatic design. It follows the "Don't Repeat Yourself" (DRY) principle and aims to make it easier to build web applications by providing a set of tools and conventions.

Key features and concepts of Django include:

4. **MVC Architecture:** Django follows the Model-View-Controller (MVC) architectural pattern, although Django commonly refers to it as Model-View-Template (MVT). In this pattern:
 - >>>**Model:** Represents the data structure and handles interactions with the database.
 - >>>**View:** Handles user interface logic and interacts with templates to present data.
 - >>>**Template:** Provides the HTML structure to display data received from the views.
5. **ORM (Object-Relational Mapping):** Django comes with a built-in ORM that simplifies database access by mapping database tables to Python objects. This allows developers to work with database records using Python code, without writing raw SQL queries.
6. **URL Routing:** Django uses a URL dispatcher to route incoming web requests to the appropriate view functions based on URL patterns defined in the project's URL configuration.

MYSQL

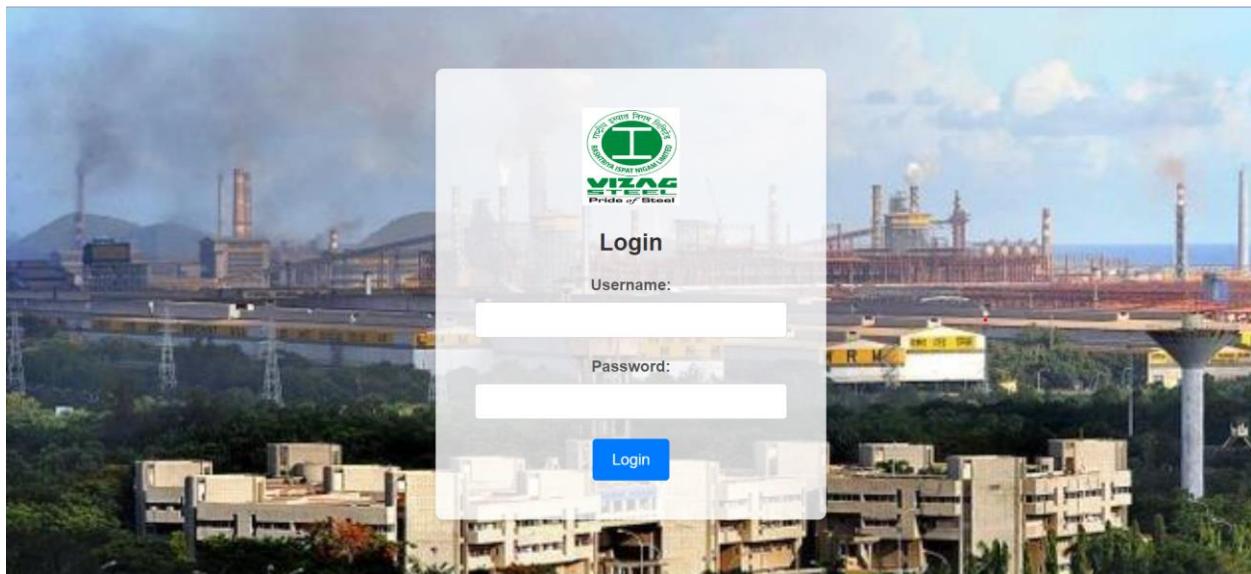
MySQL is an open-source relational database management system (RDBMS) that uses Structured Query Language (SQL) for managing and manipulating data. It is one of the most popular databases used in web applications due to its reliability, scalability, and ease of use.

Key features and concepts of MySQL include:

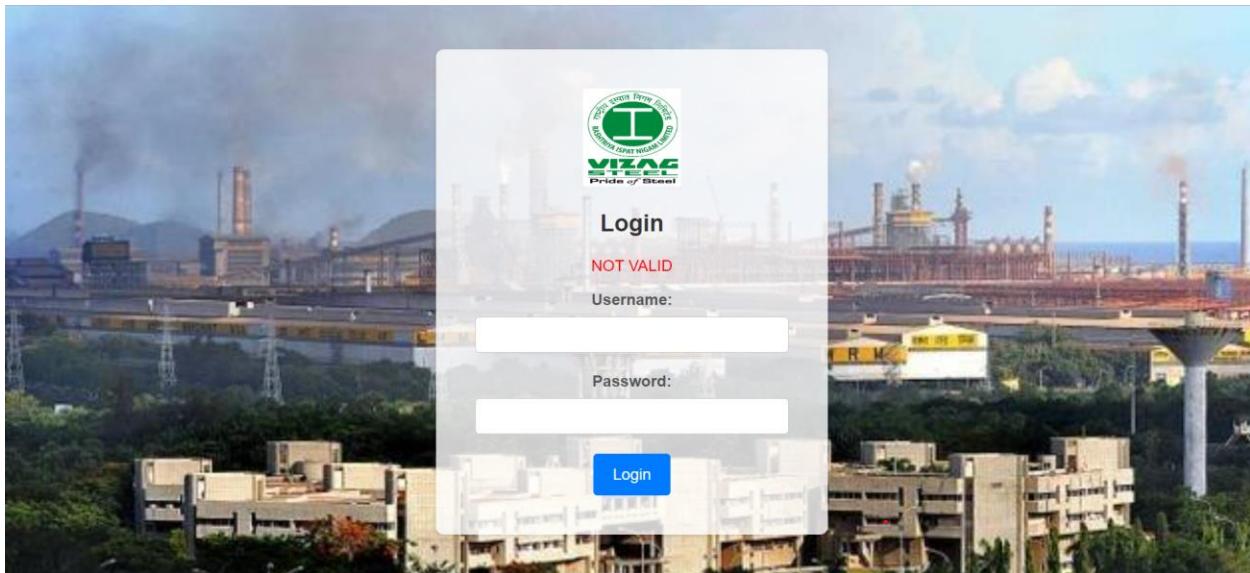
- 1.Relational Database:** MySQL follows the relational model, where data is organized into tables consisting of rows (records) and columns (fields). It supports relationships between tables using primary keys, foreign keys, and indexes.
- 2.SQL Support:** MySQL uses SQL (Structured Query Language) to perform various operations on the database, such as querying data, inserting, updating, deleting records, creating and modifying tables, and managing permissions.
- 3.Data Types:** MySQL supports a wide range of data types to store different kinds of data efficiently, including integers, floating-point numbers, strings, dates, timestamps, binary data, and more.

Website Overview

- 1) The first part to access YARD MANAGEMENT SYSTEM is through login page which is as shown below



- 2) If invalid credentials are entered then following is found



3) After Successful login it redirects to Home Page which is as shown and also the val defines which user is active i.e in this case RAMU is active so value is 1

id	password	ac	gr	nam	val	eid	tme
10	153	0	KIOSK	RAMU	1	108122	2024-04-27 11:33:27.315488
11	234	0	YARD_ADMIN	RAMESH	0	108123	2024-04-22 12:54:04.210580

Namaste

YARD MANAGEMENT SYSTEM



[Yard Map](#)

[Monitors](#)

[Rake](#)

[Management](#)

[Truck](#)

[Workorders](#)

[Search](#)

[Manual](#)

[Updates](#)

[Reports](#)

[Configuration](#)

IT SYSTEM

WorkOrder Index

WorkOrder Management

ARRIVED	Wagon Count	Hook In	Generate Workorders
2	Hook in	Generate	
4	Hook in	Generate	

Inbound via Hook

Inbound via Truck

MaterialProcessing

Rake Dispatch

Rake Outbound

DirectDispatchbyRake

DirectDispatchbyTruck

CurrentWorkorders

FinishedWorkorders

CancelledWorkorders

Namaste

YARD MANAGEMENT SYSTEM

Yard Map Monitors Rake Management Truck Manager Workorders Search Manual Updates Reports Configuration

[Hooks](#) [Rakes](#)

PlatForm	Hook No	Status	Wagon Count	Hook In	Generate Workorders	Unloading Completed	Hook Out
ULY-6	2300003354	RAKE_ARRIVED	16	Hook in	Generate	Unloading Order	Hook out
ULY-2	2300003317	RAKE_ARRIVED	4	Hook in	Generate	Unloading Order	Hook out
ULY-1	2300003312	RAKE_ARRIVED	4	Hook in	Generate	Unloading Order	Hook out
ULY-3	2300003318	RAKE_ARRIVED	4	Hook in	Generate	Unloading Order	Hook out

4) Let's say there is a new hook number with no platform assigned

PlatForm	Hook No	Status	Wagon Count	Hook In	Generate Workorders	Unloading Completed	Hook Out
ULY-6	2300003354	RAKE_ARRIVED	16	Hook in	Generate	Unloading Order	Hook out
ULY-2	2300003317	RAKE_ARRIVED	4	Hook in	Generate	Unloading Order	Hook out
ULY-1	2300003312	RAKE_ARRIVED	4	Hook in	Generate	Unloading Order	Hook out
ULY-3	2300003318	RAKE_ARRIVED	4	Hook in	Generate	Unloading Order	Hook out
N/A	2300003323	PLAN	2	Hook in	Generate	Unloading Order	Hook out

5) Initially only wagons are assigned but no work orders generated it is because of the status and the below figure appears when we clicked on hook number

Wagon details of 2300003323

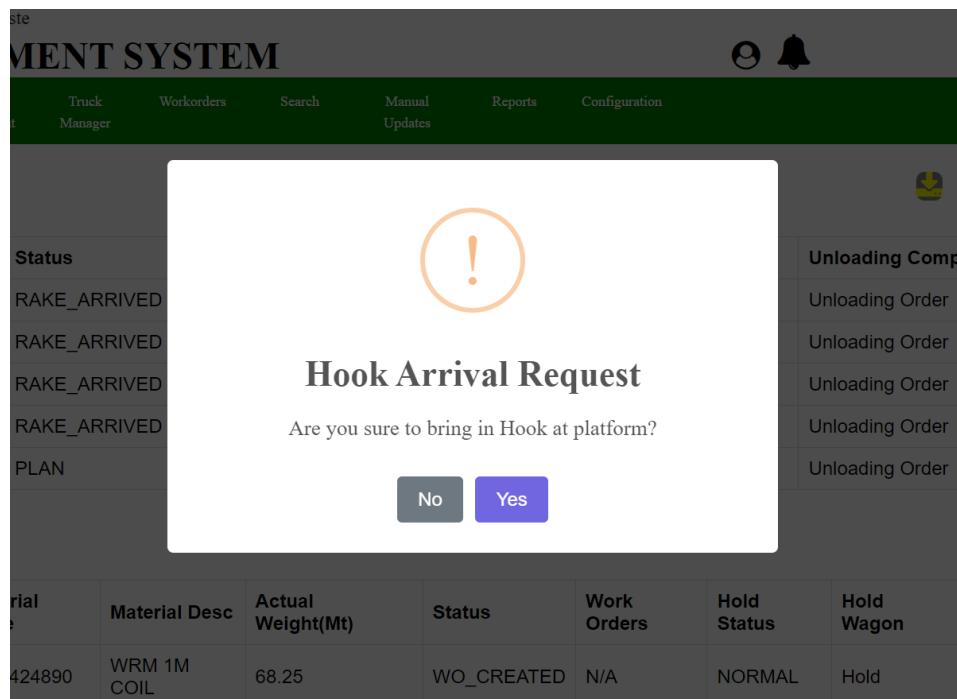
Sequence	Wagon Name	Material Code	Material Desc	Actual Weight(Mt)	Status	Work Orders	Hold Status	Hold Wagon	View Materials	From ERP
1	VSCDY-02	1213424890	WRM 1M COIL	68.25	WO_CREATED	N/A	NORMAL	Hold	View	N/A
2	VSCDY-04	1213424890	TMT REBAR	68.25	WO_CREATED	N/A	NORMAL	Hold	View	N/A

6) In order to change status and do actions following are done

7) Firstly we click on Hook in, so that we can change the plan to composition which means a platform is assigned when hook can be reached

Wagon Count		Create Workorders		Unloading Options	
ARRIVED	16	Drop Bin 2300003323	Generate	Unloading Options	Unloading Options
ARRIVED	4	Drop Zone ULY-4	Generate	Unloading Options	Unloading Options
ARRIVED	4	Submit	Generate	Unloading Options	Unloading Options
	2	Hook in	Generate	Unloading Options	Unloading Options

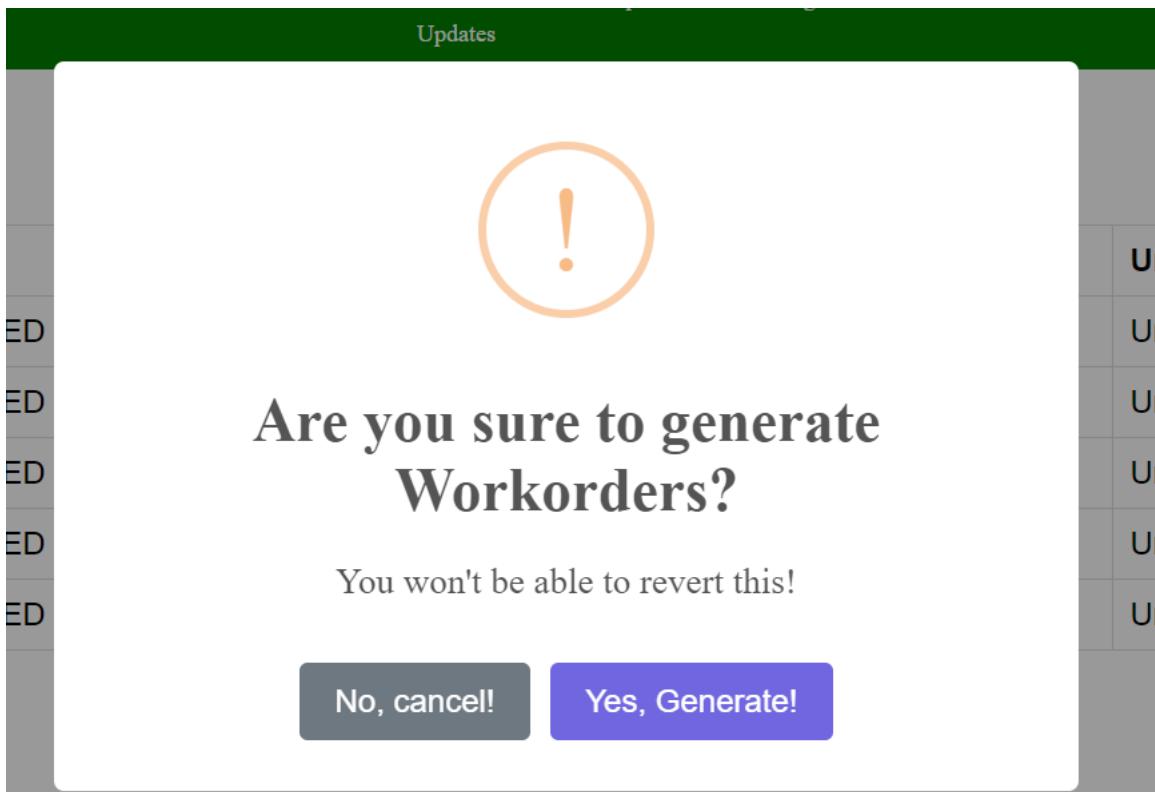
	Material Desc	Actual Weight(Mt)	Status	Work Orders	Hold Status	Hold Wagon
	WRM 1M COIL	68.25	WO_CREATED	N/A	NORMAL	Hold



8) After getting success dialog box the following is changed as shown below

ULY-4	2300003323	RAKE_ARRIVED	2	Hook in	Generate	Unloading Order	Hook out
-------	----------------------------	--------------	---	-------------------------	--------------------------	---------------------------------	--------------------------

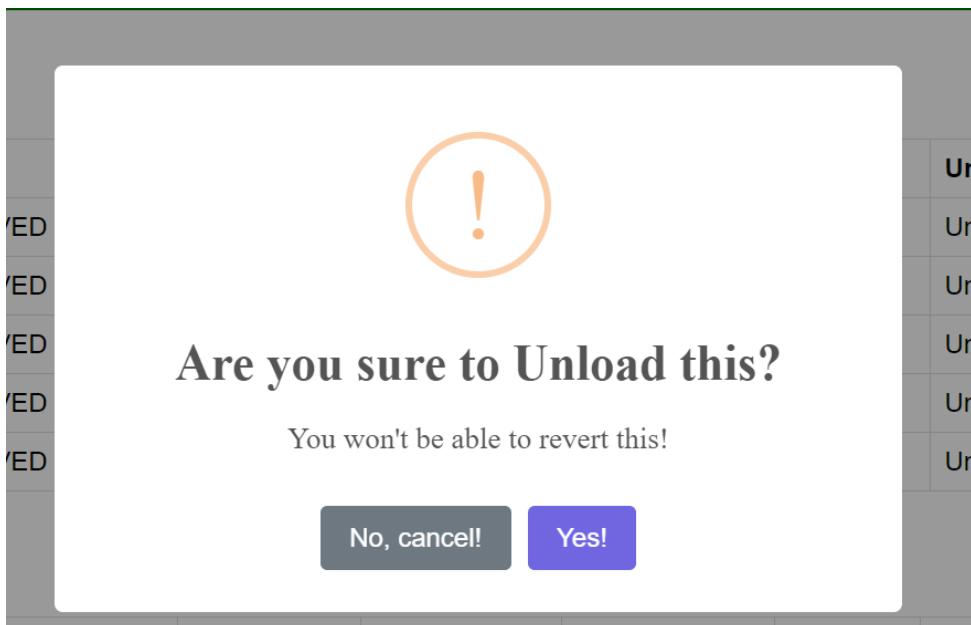
9) If we click on generate ,It generate the workorders and later workorders are assigned as shown



Wagon details of 2300003323

Sequence	Wagon Name	Material Code	Material Desc	Actual Weight(Mt)	Status	Work Orders	Hold Status	Hold Wagon	View Materials	From ERP
1	VSCDY-02	1213424890	WRM 1M COIL	68.25	WO_CREATED	191233	NORMAL	Hold	View	N/A
2	VSCDY-04	1213424890	TMT REBAR	68.25	WO_CREATED	191234	NORMAL	Hold	View	N/A

10) After this on clicking Unloading completed it changed to unloading completed and rather than finished workorders remaining will be cancelled automatically



Platform	Hook No	Status	Wagon Count	Hook In	Generate Workorders	Unloading Completed	Hook Out
ULY-6	2300003354	RAKE_ARRIVED	16	Hook in	Generate	Unloading Order	Hook out
ULY-2	2300003317	RAKE_ARRIVED	4	Hook in	Generate	Unloading Order	Hook out
ULY-1	2300003312	RAKE_ARRIVED	4	Hook in	Generate	Unloading Order	Hook out
ULY-3	2300003318	RAKE_ARRIVED	4	Hook in	Generate	Unloading Order	Hook out
ULY-4	2300003323	UNLOADING_COMPLETED	2	Hook in	Generate	Unloading Order	Hook out

11) After this Hook out will be done

A confirmation dialog box with a light gray background. In the center is a large orange circle containing a white exclamation mark. Below the icon, the text "Are you sure to Hook out from ULY-4?" is displayed in a bold, dark font. Underneath that, a smaller text says "You won't be able to revert this!". At the bottom, there are two buttons: a gray button on the left labeled "No, cancel!" and a purple button on the right labeled "Yes, delete it!".

You won't be able to revert this!

12)Here whatever actions are done that are in sequence manner and are done based on the status of the hook number

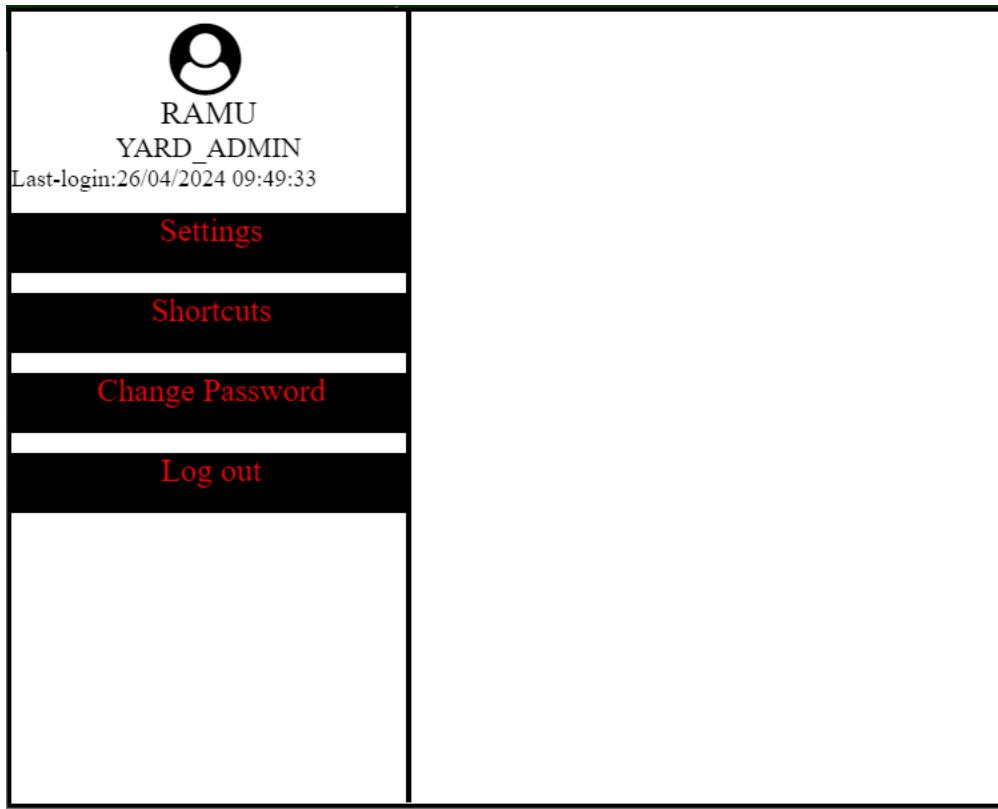
Platform	Hook No	Status	Wagon Count	Hook In	Generate Workorders	Unloading Completed	Hook Out
ULY-6	2300003354	RAKE_ARRIVED	16	Hook in	Generate	Unloading Order	Hook out
ULY-2	2300003317	RAKE_ARRIVED	4	Hook in	Generate	Unloading Order	Hook out
ULY-1	2300003312	RAKE_ARRIVED	4	Hook in	Generate	Unloading Order	Hook out
ULY-3	2300003318	RAKE_ARRIVED	4	Hook in	Generate	Unloading Order	Hook out

13)On above there is a yellow-colored download which helps in downloading this dataset in .csv file

We get a csv file name data (1).csv depending on the frequency of clicking download button the number changes from 1 to frequency and the dataset is as below in excel

A1	platform	h_number	Status	count
2	ULY-6	2.3E+09	RAKE_ARR	16
3	ULY-2	2.3E+09	RAKE_ARR	4
4	ULY-1	2.3E+09	RAKE_ARR	4
5	ULY-3	2.3E+09	RAKE_ARR	4
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

14)Also on above there is a icon of person which on clicking gives the details of user name, user group and the last time the person logged in to this website

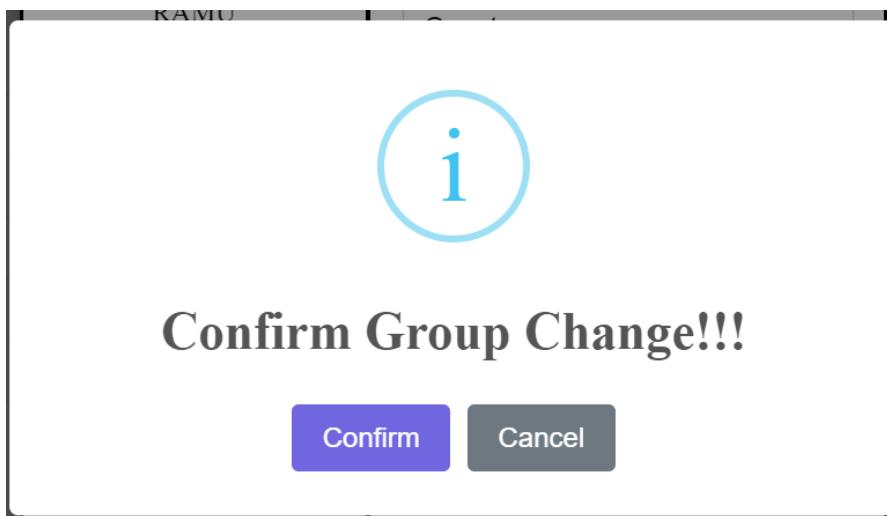


15) Let's say i change the group of the person as follows

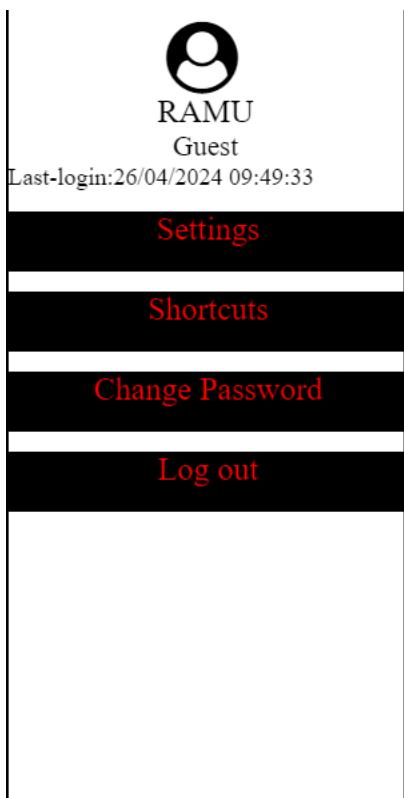
Choose Group

Guest

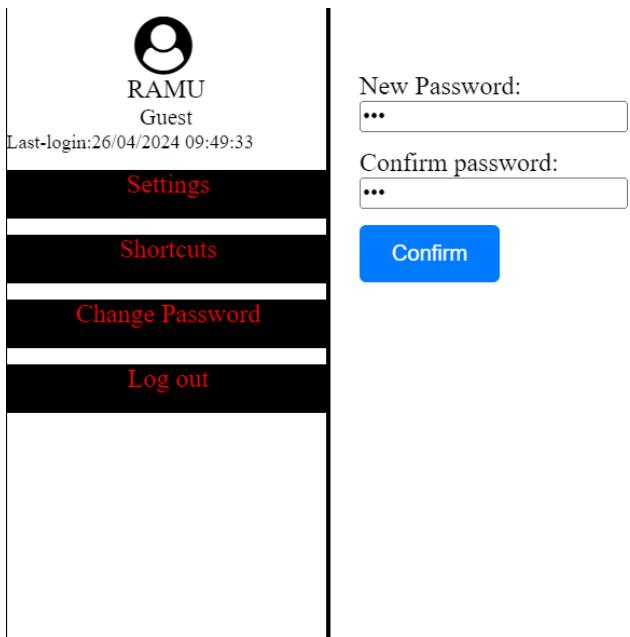
Submit



16)On confirmation the following appears



17) Even password change can be done as shown below



Confirm Password Change

You are about to change your password to:
153

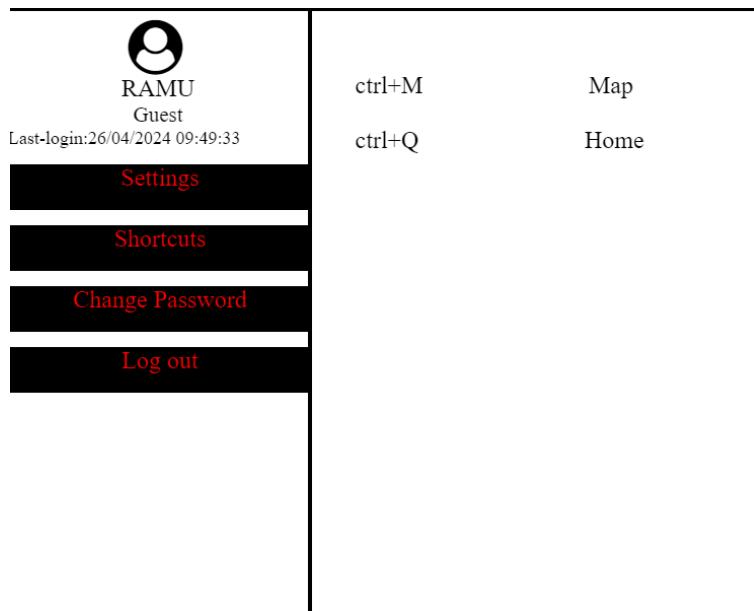
Confirm

Cancel

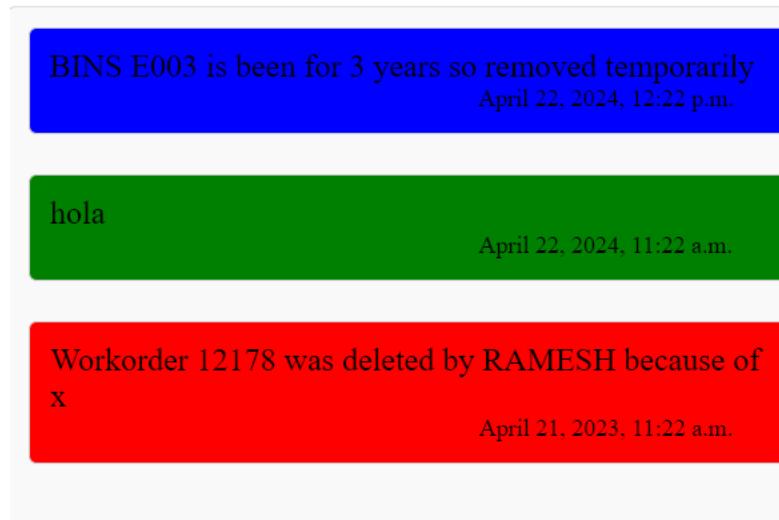
18) On confirmation password changes and is stored in database as below

id	password	ac	gr	nam	val	eid	tme
10	153	0	Guest	RAMU	1	108122	2024-04-26 09:49:33.184325

19) There is a shortcuts button which tells what shortcuts gives you a particular path

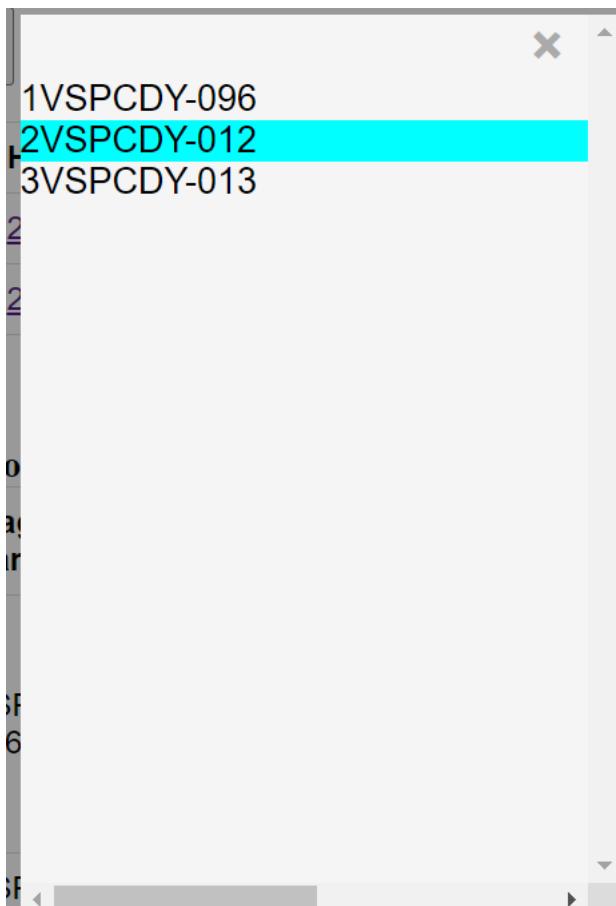


20)There is a notification button which tells what notifications are received and these are like messages which are sorted based on recent time to early time as shown below



22)In hooks on clicking the wagon we will find it's sequence among other wagons as shown below

Hook No	Status
2	1VSPCDY-096
2	2VSPCDY-012
2	3VSPCDY-013
2	
2	
0	
2	
2	
6	
6	
6	



23) Workorder appears as below

WORKORDER DETAILS 105143

Workorder: 105143	Generated time: Feb. 24, 2012, 18:56:43	INBOUND VIA HOOK
Source: 096	Drop Bin: W266	Drop Zone: CSPY West Block
Assigned Truck: AP16TG2619	Assigned By: SYSTEM	Calculated Weight(Mt): 77.746
Bundle No.: 12123, 12124, 12125, 12126, 12127.		
BINS: VSPCDY-096-2300003354		Search..

Type	Plan Location	Actual Location	Count-Weight	Material-Code	Material Desc	Status	Action
PICK	VSPCDY-096-2300003354 ULY-3	N/A	10-51.642 0-0.0000	171620075332500		N/A	N/A
DROP	AP39X6085-CDY	N/A	10-51.642 0-0.0000	171620075332500		N/A	<button>FINISH</button>
PICK	AP39X6085-CDY	N/A	10-51.642 0-0.0000	171620075332500		N/A	N/A
DROP	W038-CSPY West Block	N/A	10-51.642 0-0.0000	171620075332500		N/A	<button>FINISH</button>

24) This was designed with cautious that until first action done the other actions should be done

The screenshot shows a software application window. On the left, there is a sidebar with the text "AssignedTruck:AP16TG2619". Below this is a box containing "Bundle No.: 12123, 12124, 12125, 12126, 12127." To the right of the sidebar is a modal dialog box with the title "127.0.0.1:8000 says". Inside the dialog, the text "Previous Not completed" is displayed, and a blue "OK" button is at the bottom right. At the bottom of the main window, there is a search bar with the placeholder "Search..".

Type	Plan Location	Actual Location	Count-Weight	Material-Code	Material Desc	Status	Action
PICK	VSPCDY-096-2300003354 ULY-3	N/A	10-51.642 0-0.0000	171620075332500		In Progress	N/A
DROP	AP39X6085-CDY	N/A	10-51.642 0-0.0000	171620075332500			<button>FINISH</button>
PICK	AP39X6085-CDY	N/A	10-51.642 0-0.0000	171620075332500		N/A	N/A
DROP	W038-CSPY West Block	N/A	10-51.642 0-0.0000	171620075332500		N/A	<button>FINISH</button>

25) The Drop button appears as shown below

Assigned
By:SYSTEM

CalculatedWeight(Mt):77.746

Drop Bin
AP39X6085

Drop Zone
CDY

Submit

	Actual Loca	Serial-Code	Material De
03354 ULY-3	N/A	10-51.642 0-0.0000	171620075332500
	N/A	10-51.642 0-0.0000	171620075332500
	N/A	10-51.642 0-0.0000	171620075332500
ock	N/A	10-51.642 0-0.0000	171620075332500



**Are you sure to Drop all
materials?**

You won't be able to revert this!

No

Yes



Do you want to finish this?

You won't be able to revert this!

No

Yes

26) If We click on finish following appears

Type	Plan Location	Actual Location	Count-Weight	Material-Code	Material Desc	Status	Action
PICK	VSPCDY-096-2300003354 ULY-3	N/A	10-51.642 0-0.0000	171620075332500		Finished	N/A
DROP	AP39X6085-CDY	N/A	10-51.642 0-0.0000	171620075332500		Finished	<button>FINISH</button>
PICK	AP39X6085-CDY	N/A	10-51.642 0-0.0000	171620075332500		N/A	N/A
DROP	W038-CSPY West Block	N/A	10-51.642 0-0.0000	171620075332500		N/A	<button>FINISH</button>

Type	Plan Location	Actual Location	Count-Weight	Material-Code	Material Desc	Status	Action
PICK	VSPCDY-096-2300003354 ULY-3	N/A	10-51.642 0-0.0000	171620075332500		Finished	N/A
DROP	AP39X6085-CDY	N/A	10-51.642 0-0.0000	171620075332500		Finished	<button>FINISH</button>
PICK	AP39X6085-CDY	N/A	10-51.642 0-0.0000	171620075332500		Finished	N/A
DROP	W038-CSPY West Block	N/A	10-51.642 0-0.0000	171620075332500		Finished	<button>FINISH</button>

27) If we click on finish button again it appears as below

AssignedTruck:AP16TG2619

127.0.0.1:8000 says
already finished

OK

Bundle No.:
12123, 12124, 12125, 12126,
12127.

BINS: VSPCDY-096-
2300003354

Search..

Type	Plan Location	Actual Location	Count-Weight	Material-Code	Material Desc	Status	Action
PICK	VSPCDY-096-2300003354 ULY-3	N/A	10-51.642 0-0.0000	171620075332500		Finished	N/A
DROP	AP39X6085-CDY	N/A	10-51.642 0-0.0000	171620075332500		Finished	<button>FINISH</button>
PICK	AP39X6085-CDY	N/A	10-51.642 0-0.0000	171620075332500		Finished	N/A
DROP	W038-CSPY West Block	N/A	10-51.642 0-0.0000	171620075332500		Finished	<button>FINISH</button>

28)For cancellation there is a bin above and when we click on it a dialog box will be appeared as below

WORKORDER DETAILS 105144

Workorder: 105144 Generatedtime:Feb.
24, 2012,18:56:43 INBOUND VIA HOOK

Source:096

AssignedTruck:AP16TG2619

Bundle No.: .

BINS: VSPCDY-096-
2300003354

Reason for Deletion of workorder 105144

Reason:

Submit

Search..

29) Let's say reason be x then message appears, and this gets cancelled as below

Type	Plan Location	Actual Location	Count-Weight	Material-Code	Material Desc	Status	Action
PICK	VSPCDY-096-2300003354	N/A	10-51.642 0-0.0000	171620075332500		Cancelled	N/A
DROP	AP39X6085-CDY	N/A	10-51.642 0-0.0000	171620075332500		Cancelled	
PICK	AP39X6085-CDY	N/A	10-51.642 0-0.0000	171620075332500		Cancelled	N/A
DROP	-CDY	N/A	10-51.642 0-0.0000	171620075332500		Cancelled	

Workorder 105144 was deleted by RAMU because of x

April 26, 2024, 10:57 a.m.

BINS E003 is been for 3 years so removed temporarily

April 22, 2024, 12:22 p.m.

hola

April 22, 2024, 11:22 a.m.

Workorder 12178 was deleted by RAMESH because of

x

April 21, 2023, 11:22 a.m.

30) The same functionalities applicable for rake but the status varies and this is vital for dispatch to places outside the states

PlatForm	Indent No	Destinations	Status	Wagon Count	Placement Memo	PlatForm Association	Generate Workorder	Rake In	Loading Completion	TXR Health Status	TXR Print	TXR Certification	Print F-Note	Verify
LY-2	240395	SGTY	WO_CREATED	12	Initiate	Assigned Platform	Generate	Rake In	Loading Completed	TXR Health	Print	TXR Certification	Print	N/A
N/A	240397	GZB	PLAN	10	Initiate	Assigned Platform	N/A	Rake In	Loading Completed	TXR Health	Print	TXR Certification	Print	N/A

31) Here memos are assigned means like any orders from higher officials are confirmed or not



Memo Request

Are you sure that memos are assigned?

No

Yes

32) After assigning memos only we can assign platform

A screenshot of a mobile application interface. The screen has a dark grey header and footer. In the center, there is a white rectangular form area. The form contains two text input fields: the top one is labeled "Drop Bin" and contains the value "240397"; the bottom one is labeled "Drop Zone" and contains the value "LY-4". Below these fields is a single "Submit" button.



Platform Request

Are you sure to assign platform?

No

Yes

PlatForm	Indent No	Destinations	Status	Wagon Count	Placement Memo	PlatForm Association	Generate Workorder	Rake In	Loading Completion	TXR Health Status	TXR Print	TXR Certification	Print F-Note	Verify
LY-2	240395	SGTY	WO_CREATED	12	Initiate	Assigned Platform	Generate	Rake in	Loading Completed	TXR Health	Print	TXR Certification	Print	N/A
LY-4	240397	GZB	WO_CREATED	10	Initiate	Assigned Platform	Generate	Rake in	Loading Completed	TXR Health	Print	TXR Certification	Print	N/A

33)After assigning platform status changed to RAKE_ARRIVED

PlatForm	Indent No	Destinations	Status	Wagon Count	Placement Memo	PlatForm Association	Generate Workorder	Rake In	Loading Completion	TXR Health Status	TXR Print	TXR Certification	Print F-Note	Verify
LY-2	240395	SGTY	WO_CREATED	12	Initiate	Assigned Platform	Generate	Rake in	Loading Completed	TXR Health	Print	TXR Certification	Print	N/A
LY-4	240397	GZB	RAKE_ARRIVED	10	Initiate	Assigned Platform	Generate	Rake in	Loading Completed	TXR Health	Print	TXR Certification	Print	N/A

34)After clicking on generate Workorders will be generatede and status becomes WO_CREATED

Platform	Indent No	Destinations	Status	Wagon Count	Placement Memo	Platform Association	Generate Workorder	Rake In	Loading Completion	TXR Health Status	TXR Print	TXR Certification	Print F-Note	Verify
LY-2	240395	SGTY	WO_CREATED	12	Initiate	Assigned Platform	Generate	Rake in	Loading Completed	TXR Health	Print	TXR Certification	Print	N/A
LY-4	240397	GZB	WO_CREATED	10	Initiate	Assigned Platform	Generate	Rake in	Loading Completed	TXR Health	Print	TXR Certification	Print	N/A

35)On clicking Wagon we get the following dialog box

Wagon Details Wagon Material Details
SWR21150641189

Name: SWR21150641189 Wagon Type: BOST

Destination: SGTY Plan Suggested On:

Verification Done Time: Wagon Health: FIT

MaterialCode: 451902203310101 46180000753021 451902203310101

Submit

Material UID	Material Code	Pick Bin	Pick Bin Layer	Bin Age	Material Description	Weight(Ton)
16C000057083	1612000012800301	EB017	9	270D 1h 42 m	TMT REBAR IN CIL 12MM IS 1786 FE500D	1.317
16C000057081	1612000012800301	EB017	9	270D 1h 42 m	TMT REBAR IN CIL 12MM IS 1786 FE500D	1.317

36)If we click on material code following box appears

LABEL	Original Value	Updated Value	Updated Ts	Updated By	Updated By
Wagon Name	BOST-1	BOST-1	2024-01-10 19:21:19	EXTERNAL	0
Wagon Type	BOST	BOST	2024-01-10 19:21:19	EXTERNAL	0
SO STO NUMBER	9102048966	910204896	2024-01-10 19:21:19	EXTERNAL	0
ITEM nNUMBER	000010	0010	2024-01-10 19:21:19	EXTERNAL	0
Material Code	161200008800101	161200008800101	2024-01-10 19:21:19	EXTERNAL	0
Material Description	TMT REBAR IN COIL 8MM IS 1786 FE500	TMT REBAR IN COI	2024-01-10 19:21:19	EXTERNAL	0
Customer Code	0000089320	0000089320	2024-01-10 19:21:19	EXTERNAL	0
Destination Location Code	PLMD	PLMD	2024-01-10 19:21:19	EXTERNAL	0
Destination Location	PILAMEDU-COIMBATORE	PI MD	2024-01-10	EXTERNAL	0
Destination Location Description	PILAMEDU-COIMBATORE	PLMD	2024-01-10 19:21:19	EXTERNAL	0
CUSTOMER Name	sr BM,RINL-VSP,COIMBATORE	PLMD	2024-01-10 19:21:19	EXTERNAL	0
Address	SUGUNA BUILDING IST FLOOR NO.707,AVANASHI ROAD	PLMD	2024-01-10 19:21:19	EXTERNAL	0
City	Coimbatore	Coimbatore	2024-01-10 19:21:19	EXTERNAL	0
Pincode	531103	531103	2024-01-10 19:21:19	EXTERNAL	0
Weight	100	10	2024-01-10 19:21:19	EXTERNAL	0

37)We get the same confirmation box of unloading finish but apart from that we also need to check the wagons are fit or not to fill that there will be a dialog box which enables us for confirmation of every wagon being fit or not

38)Later the status becomes approved

39)We also get a verify button which is as below

240397	GZB	APPROVED	10	Initiate	Assigned Platform	Generate	Rake in	Loading Completed	TXR Health	Print	TXR Certification	Print	VERIFY	Rake Out
------------------------	-----	----------	----	--------------------------	-------------------	----------	---------	-----------------------------------	----------------------------	-----------------------	-----------------------------------	-----------------------	---------------	----------

40)After that rake out will be done

41)If we click on inbound via hooks the following appears

Id	Material Code	Truck	Pick Location	Assigned Drop Location	Actual Drop Location	Generated Time	Challan Printed Time	Group	Generated By	Cancel
105143	171620075332500	AP16TG2619	VSPCDY-096-2300003354 ULY-6	W266 CSPY West Block	W266 CSPY West Block	Feb. 24, 2012,18:56:43	Print Challan	INBOUND VIA HOOK	SYSTEM	
105144	171620075332500	AP16TG2619	VSPCDY-096-2300003354 ULY-6	W266 CSPY West Block	W266 CSPY West Block	Feb. 24, 2012,18:56:43	Print Challan	INBOUND VIA HOOK	SYSTEM	

42)Deletion of workorder is same as early seen

43)Current workorders only show the current date orders as the below shows orders of a particular date and are in order from latest to earliest

Id	Material Code	Truck	Pick Location	Assigned Drop Location	Actual Drop Location	Generated Time	Challan Printed Time	Group	Generated By	Cancel
14312	161200001002072	AP16BD1234	W021 086	NGXYTERWA-4-240279 LY-4	NGXYTERWA-4-240279 LY-4	April 23, 2024,15:41:12	Print Challan	RAKE DISPATCH	SYSTEM	
105146	161200128003	C2-DUMMY6	EB017 CSPY East Block	MP Reprocessing	MP Reprocessing	April 23, 2024,14:5:12	Print Challan	MATERIAL PROCESSING	TEMP	

44)Likewise Finished workorders show only finished orders and cancelled orders show cancelled orders

Id	Material Code	Truck	Pick Location	Assigned Drop Location	Actual Drop Location	Generated Time	Challan Printed Time	Group	Generated By	Cancel
105143	171620075332500	AP16TG2619	VSPCDY-096-2300003354 ULY-6	W266 CSPY West Block	W266 CSPY West Block	Feb. 24, 2012,18:56:43	Print Challan	INBOUND VIA HOOK	SYSTEM	
105144	171620075332500	AP16TG2619	VSPCDY-096-2300003354 ULY-6	W266 CSPY West Block	W266 CSPY West Block	Feb. 24, 2012,18:56:43	Print Challan	INBOUND VIA HOOK	SYSTEM	

45)If we click on print challan based on type and it's id the pdf will be printed as below

Inb object (23)

eTrax Unloading Workorder		Hook(Inbound Via Hook)		11/3/24 12:22:22	
WO CHALLAN NO - 113507					
Truck Id		Issued Time		Issued By	
103-AP39X6085		11/03/24 11:14:30		SYSTEM	
SOURCE		HOOK NO 2300003529			
WAGON NO	VSPCDY-017	LINE NO#	ULY-6	WAGON SEQUENCE#	16
DESTINATION					
ZONE	CSPY East Block	BAY	Storage	BIN	E188
MATERIAL					
MATERIAL-DESCRIPTION (SIZE-DESCRIPTION)		MATERIAL CODE		NO OF BUNDLES	CALUCATED WEIGHT
TMT REBAR IN COIL 8MM IS 1786 FE550D		16120000880701		18	21.798(Mt)

46)For material processing, it appears as below and the print of material processing is as shown

Id	Truck	Pick Location	Assigned Drop Location	Actual Drop Location	Generated Time	Challan Printed Time	Generated By
105416	C2-DUMMY6	EB017 CSPY East Block	MP Reprocessing	MP Reprocessing	Feb. 24, 2024, 2:05 p.m.	Unloading Order	TEMP
105415	C2-DUMMY5	EB009 CSPY East Block	MP Reprocessing	MP Reprocessing	Feb. 24, 2024, 2:03 p.m.	Unloading Order	TEMP

eTrax Workorder		Material Processing		04/03/24 12:16:36	
WO CHALLAN NO - 109194		Challan no : 9002401309			
Truck Id		Issued Time		Issued By	
220-C2-DUMMY3		02/03/24 17:32:08		TEMP	
SOURCE					
ZONE	CSPY EAST BLOCK	BAY	Storage	BIN	EB008
SOURCE					
ZONE	Reprocessing	BAY	Parking	BIN	MP
MATERIAL					
MATERIAL-DESCRIPTION (SIZE-DESCRIPTION)	MATERIAL CODE			NO OF BUNDLES	DERIVED WEIGHT
TMT REBAR IN COIL 8MM IS 1786 FE550D	16120000880701			5,000	10,000
REMARKS					

47)The following are certain figures which are meant for data representation

i)Sync Material Weight

Sync Material Weight								
Add New Material Weight								
ID	Material Code	Material Desc	Calculated Weight(ton)	Calculated Weight(Based on current stock in eTrax)(ton)	Currently in CDYMS	Configure	Sync Weight	Date Modified
19911	611040000	BLOOM 320*250MM WT	1029.418	1029.418	0	Configure	SyncWeight	June 21, 2023,7:49 p.m.
19912	615100700	BLOOM 200*200MM 2830	505.428	505.428	0	Configure	SyncWeight	June 21, 2023,7:49 p.m.
20187	451100025130200	ROUND 25MM IS 2062 E250A SBM	N/A	N/A	0	Configure	SyncWeight	June 21, 2023,7:53 p.m.
19980	17140656533100	BILLET 65X65 MM SAE1018	N/A	N/A	0	Configure	SyncWeight	June 21, 2023,7:50 p.m.

X

Material Code	<input type="text"/>
Material Code Description	<input type="text"/>
Material Type	<input type="text"/>
Section Code Description	<input type="text"/>
Section Code	<input type="text"/>
Size Code	<input type="text"/>
Grade Code	<input type="text"/>
Length Code	<input type="text"/>
Length Code Description	<input type="text"/>
Grade Code Description	<input type="text"/>
Size Code Description	<input type="text"/>
Submit	

After new values submitted as shown below the structure changes

Id	Material Code	Material Desc	Calculated Weight(ton)	Calculated Weight(Based on current stock in eTrax)(ton)	Currently In CDYMS	Configure	Sync Weight	Date Modified
19911	611040000	BLOOM 320*250MM WT	1029.418	1029.418	<input type="checkbox"/>	Configure	SyncWeight	June 21, 2023,7:49 p.m.
19912	615100700	BLOOM 200*200MM 2830	505.428	505.428	<input type="checkbox"/>	Configure	SyncWeight	June 21, 2023,7:49 p.m.
20187	451100025130200	ROUND 25MM IS 2062 E250A SBM	N/A	N/A	<input type="checkbox"/>	Configure	SyncWeight	June 21, 2023,7:53 p.m.
19980	17140656533100	BILLET 65X65 MM SAE1018	N/A	N/A	<input type="checkbox"/>	Configure	SyncWeight	June 21, 2023,7:50 p.m.
19914	631040000	BLOOM 320*250MM WT	1029.418	1029.418	<input type="checkbox"/>	Configure	SyncWeight	June 21, 2023,7:49 p.m.

ii)GPS Device Configuration

Truck Id	Truck Name	Max Carrying Capacity(ton)	GPS Device Id	Update
101	AP39X5681	44.092	90027052019065	
102	AP39X5682	44.092	90027052019068	
103	AP39T1231	44.092	90027052019325	

We can also Update the values of Weight and GPS device id which appears for updation as below

×

Truck Id	<input type="text" value="AP39X5681"/>
Weight	<input type="text"/>
GPS ID	<input type="text"/>
Submit	

After Updation to weight 44 and GPS ID 90021930910293 the following appears

Truck Id	Truck Name	Max Carrying Capacity(ton)	GPS Device Id	Update
101	AP39X5681	44	90021930910293	
102	AP39X5682	44.092	90027052019068	
103	AP39T1231	44.092	90027052019325	

iii) User Configuration

Login Id	User Name	Group
108122	RAMU	Guest
108123	RAMESH	YARD_ADMIN

iv) Device information

This tells about the devices that are used to provide access points

Id	Name	Device ip	Type	Mac Address	X	Y
277	AP-01	192.162.0.3	YARD_ACCESS_POINT	b4:2e:99:65:ab:99	9000	10000
279	AP-02	192.162.0.1	YARD_ACCESS_POINT	N/A	9000	10000

48)The dashboard based on date it filters the dataset on that particular date and certain current dataset will be fixed

CURRENT HOOKS(26-04-2024 06:00:00 TO 26-04-2024 11:46:03)		
Track	Hook Status	
	Received	Unloaded
Total	5	0
ULY-1	1	0
ULY-3	2	0
ULY-4	1	0
ULY-6	1	0

SHIFTWISE HOOKS			
Shift	Truck	Hook Status	
		Received	Unloaded
	ULY-1	0	1

CURRENT RAKES(26-04-2024 06:00:00 TO 26-04-2024 11:46:03)				
Track	Rake Status			
	Planned	Received	Loaded	Dispatched
LY-1	0	0	0	0
LY-2	1	1	0	0
LY-3	1	0	0	1
LY-4	0	0	1	1
Total	2	1	1	2

SHIFTWISE RAKES					
Shift	Truck	Rake Status			
		Planned	Received	Loaded	Dispatched
	LY-1	0	0	0	0

SHIFTWISE HOOKS			
Shift	Truck	Hook Status	
		Received	Unloaded
A	ULY-1	0	1
	ULY-3	1	0
	ULY-4	0	0
	ULY-6	1	1
B	ULY-1	1	1
	ULY-3	0	0
	ULY-4	1	1
	ULY-6	0	1
C	ULY-1	1	0
	ULY-3	0	0
	ULY-4	0	1
	ULY-6	0	0
Total	All	5	6

DAILY HOOKS

SHIFTWISE RAKES				
Shift	Truck	Rake Status		
		Planned	Received	Loaded
A	LY-1	0	0	0
	LY-2	0	0	1
	LY-3	1	1	0
	LY-4	1	1	1
B	LY-1	0	0	0
	LY-2	0	0	1
	LY-3	1	1	0
	LY-4	1	1	1
C	LY-1	0	0	0
	LY-2	0	0	1
	LY-3	1	1	0
	LY-4	1	1	1
Total	All	1	1	1

DAILY RAKES

DAILY HOOKS

Date	Truck	Hook Status	
		Received	Unloaded
26-04-2024	ULY-1	0	0
	ULY-3	0	0
	ULY-4	0	0
	ULY-6	0	0

CURRENT MILL TRUCKS(26-04-2024 6:00:00 TO 26-04-2024 11:46:03)

Truck Status	
Received	Unloaded
1	7

SHIFTWISE MILL TRUCKS

	Truck Status
Shifts	

SHIFTWISE MILL TRUCKS

Shifts	Truck Status	
	Received	Unloaded
Total	2	0
C	1	0
B	0	0
A	1	0

DAILY MILL TRUCKS

Date	Truck Status	
	Received	Unloaded
Total	0	1
26-04-2024	0	1

DAILY RAKES

Date	Truck	Hook Status	
		Received	Unloaded
26-04-2024	ULY-1	0	0
	ULY-3	0	0
	ULY-4	0	0
	ULY-6	0	0

CURRENT CUSTOMER TRUCKS-DDGP(26-04-2024 6:00:00 TO 26-04-2024 11:46:03)

Truck Status			
Received	Unloaded	Dispatched	Cancelled
1	7	4	2

SHIFTWISE CUSTOMER TRUCKS-DDGP

Shifts	Truck Status

SHIFTWISE CUSTOMER TRUCKS-DDGP

Shifts	Truck Status			
	Received	Unloaded	Dispatched	Cancelled
Total	3	2	1	0
C	1	1	0	0
B	1	0	1	0
A	1	1	0	0

DAILY CUSTOMER TRUCKS-DDGP

Date	Truck Status			
	Received	Loaded	Dispatched	Cancelled
Total	0	0	1	1
26-04-2024	0	0	1	1

ZONE WISE BINS

ZONE	EMPTY BINS	FULL BINS
ALL	509	575
CSPY EAST	242	29
CSPY WEST	233	30
DISPATCH	4	196
MISC	30	120
UNLOADNG	0	200
WEIGHTING BRIDGE	0	0

iv)User Defined Trucks

This provides a description of what trucks are present with unique id and truck name which is shown as below

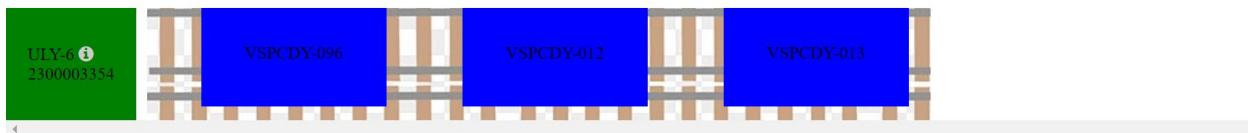
Truck Id	User Defined Vehicle Name	Update
101	AP39X5681	
102	AP39X3329	
103	AP39X6085	

Same as above cases on updating the vehicle name the following appears

Truck Id	User Defined Vehicle Name	Update
101	AP39X5641	
102	AP39X3329	
103	AP39X6085	

48)To identify what hooks and rakes are present there are hook monitor and rake monitor which are as shown below

49)Hook monitor shows what hooks are present and are displayed, apart from that when rake arrived will also be displayed

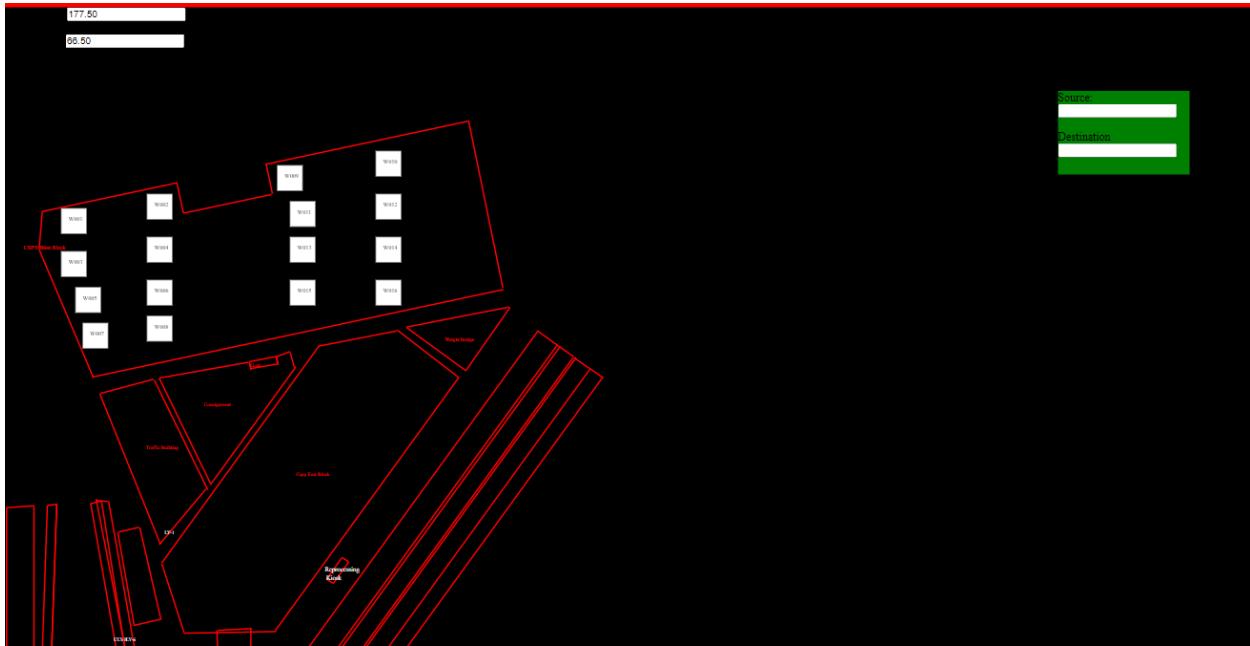


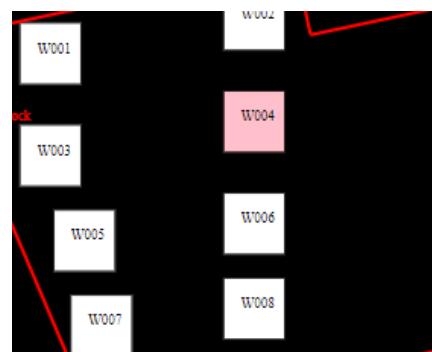
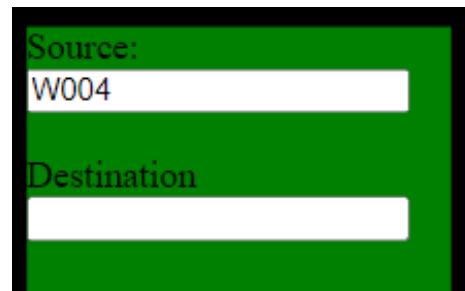
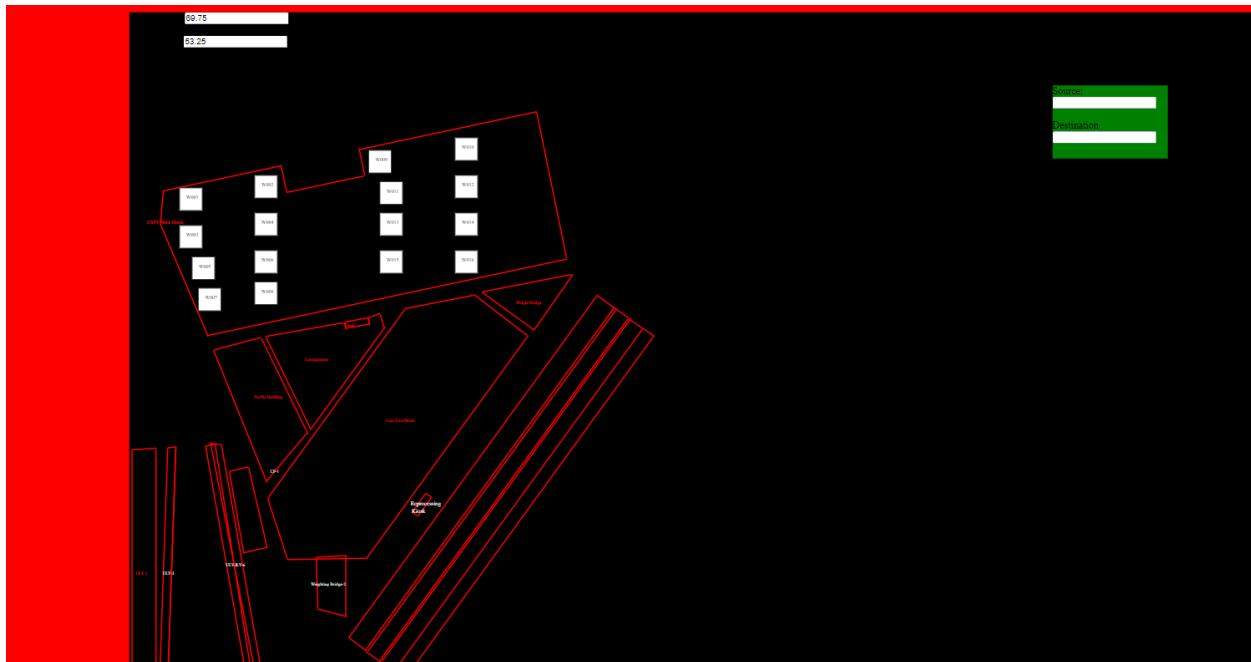
50)The same scenario in case of rake monitor



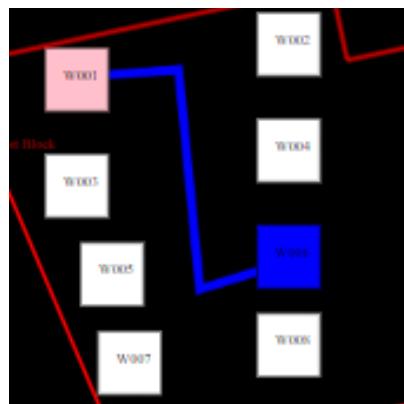
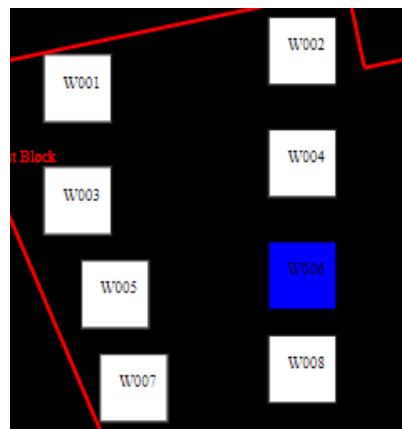
Platform LY-2 - Rake-240395			
Indent Number	Rake In Done On	Rake Verified On	Wagons on Hold
240395	18/3/24,4:11:15	N/A	0

51)To see what bins are present I have created a map with temporary bins and with certain features of gps .This map is designed in such a way that the map can be dragged and the coordinates that are showed on map are with respect to map container not on basis of main container





Source:	
Destination	W006



52) If path does not exist then alert arises



53) To Find the local trucks that are available we go to inbound truck

Truck Name	ERP Challan No	WorkOrder Challan No	Actual Weight(From ERP)(ton)	No of materials/pieces	Material Code	Material Desc	Truck In	View Materials	Date
AP31B1213	9002405595	0	37.3460000000	28	1612000010800702	TMT REBAR IN COIL	Truck in	View	March 12, 2024, 12:23 p.m.

54) Let say we want to assign workorder to truck and after assigning following appears



•

Workorder Assignment

Are you sure to Assign workorder to AP31B1213?

No Yes

[Inbound Trucks](#) [Dispatch Trucks](#) [Dispatch By Rake](#)

Truck Name	ERP Challan No	WorkOrder Challan No	Actual Weight(From ERP)(ton)	No of materials/pieces	Material Code	Material Desc	Truck In	View Materials	Date
AP31B1213	9002405595	105843	37.3460000000	28	1612000010800702	TMT REBAR IN COIL	N/A	View	March 12, 2024, 12:23 p.m.

55)To find the trucks that are to be dispatched we refer to dispatch trucks which is as shown below

Truck Name	DDGP Info	Material Code	Material Desc	Adjustment No	Workorder Challan No	Info	Send To ERP	Cancel Truck Plan	View Materials	Date
AP39T5919	5024006028-00010-9102050995-000010	461800008325101	WR COIL 8 MM SAE10821M-RH-WRM2	0	102134	Detail Info	Send For weighting	N/A		April 22, 2024, 7:32 a.m.

56)On clicking the Detail info it gives information about the above one which is as shown below

Truck Name

AP39T5919

DDGP No

5024006028

DDGP Item No.

00010

Item No.

000010

Max Capacity(Ton)

33.841

Material Dsecription

WR COIL 8 MM SAE10821M-RH-WRM2

Adjustment No.

0

Actual vs Planned Weight

0.000/2.240

ST STO No.

9102050995

DDGP Quality(ton)

34.172

Material Code

461800008325101

DDGP STATUS:

OPEN

Tare Weight Time:

2024-4-22 7:32:23

57)Here the DDGP number is represented in a specific format i.e {DDGP no} – {item No} -{SO-STO No}- {DDGP Item No}

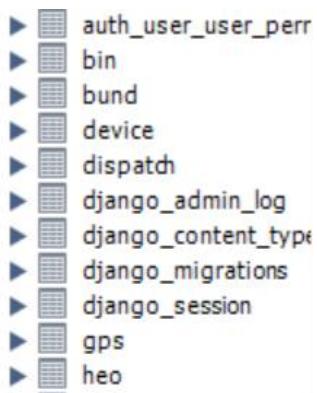
58)The data is stored in database as shown below

The screenshot shows a database interface with a sidebar titled "SCHEMAS". Under the "mrktng" schema, several tables are listed, including auth_group, auth_group_permissions, auth_permission, auth_user, auth_user_groups, auth_user_user_permissions, bin, bund, and device. The "auth_user_groups" table is currently selected, indicated by a blue border around its icon and name. Below the table list, there are tabs for "Administration" and "Schemas", and a "Information" section.

Table: auth_user_groups

Columns:

- id bigint AI PK
- user_id int
- group_id int



59)The following shows that database values used in this entire project

- i) For hooks

id	count	uid	Status	h_number	platform
29	2	1	RAKE_ARRIVED	2300003354	ULY-6
30	4	2	PLAN	2300003356	N/A

id	h_number	wname	cod	de	wt	stat	st	od	uid
25	2300003354	VSPCDY-096	171620075332500	CHANNEL W3M	70.173	WO_CREATED	NORMAL	105143	1
26	2300003354	VSPCDY-096	171620075332500	CHANNEL W3M	70.173	WO_CREATED	NORMAL	105144	1
27	2300003355	VSPCDY-051	171620075332504	CHANNEL WRM	60.173	WO_CREATED	NORMAL	105134	2
28	2300003355	VSPCDY-052	171620075332504	CHANNEL WRM	60.173	WO_CREATED	NORMAL	105135	2
29	2300003354	VSPCDY-096	171620075332400	CHANNEL W1M	65.173	WO_CREATED	NORMAL	105145	3
30	2300003354	VSPCDY-012	121213	DSASDS	12.23	WO_CREATED	NORMAL	190291	2
31	2300003354	VSPCDY-013	121214	DSASDS	12.23	WO_CREATED	NORMAL	190293	3
32	2300003354	VSPCDY-012	121212	DSASDS	12.23	WO_CREATED	NORMAL	190294	2
34	2300003323	VSCDY-02	1213424890	WRM 1M COIL	68.25	WO_CREATED	NORMAL	191233	1
35	2300003323	VSCDY-04	1213424890	TMT REBAR	68.25	WO_CREATED	NORMAL	191234	2

ii)For rakes

id	pt	ino	stat	desti	rcont	asgn
9	LY-2	240395	SGTY	WO_CREATED	12	1
10	LY-4	240397	GZB	RAKE_ARRIVED	10	1

id	ino	dcode	wname	wtype	mcode	stat	whealth	od	sto	uid
11	240395	SGTY	SWR21150641189	BOST	451902203310101	LOAD_START	FIT	72	123062	1
12	240395	SGTY	SWR21150641189	BOST	46180000753021	LOAD_START	FIT	72	123063	1
13	240395	SGTY	SWR21150641189	BOST	451902203310101	LOAD_START	FIT	72	123101	1
16	240395	SGTY	NCR211349311	BOST	451902203310101	LOAD_START	FIT	72	123412	2

iv)For workorders

id	od	dt	zone	sour	bi	truck	asign	weight
t		bns	tp	mcode				
23	105143	2012-02-24 18:56:43.000000	CSPY West Block	096	W266	AP16TG2619	SYSTEM	77.746
[INBOUND VIA HOOK]		VSPCDY-096-2300003354	Bundle No.	171620075332500				
24	14312	2024-04-23 15:41:12.000000	LY-4	086		NGXYTERWA-4-240279	AP16BD1234	SYSTEM 1.102
RAKE DISPATCH		W021		Bundle No.	161200001002072			
25	105146	2024-04-23 14:05:12.000000	Reprocessing	CSPY East Block	MP		C2-DUMMY6	TEMP 1.317
MATERIAL PROCESSING		EB017		piece No.	161200128003			
28	105144	2012-02-24 18:56:43.000000	CSPY West Block	096	W266	AP16TG2619	SYSTEM	77.746
[INBOUND VIA HOOK]		VSPCDY-096-2300003354	Bundle No.	171620075332500				
29	105843	2012-01-24 18:56:43.000000	CSPY West Block	088	W012	AP31B1213	SYSTEM	77.746
[INBOUND VIA TRUCK]		054		Piece No.	1612000010800702			

id	lid	lstart	lend	stat	c1	c2
5	105143	VSPCDY-096-2300003354	ULY-3	AP39X6085-CDY	3	10-51.642 0-0.0000
6	105143	AP39X6085-CDY		W038-CSPY West Block	3	10-51.642 0-0.0000
7	105144	VSPCDY-096-2300003354		AP39X6085-CDY	0	10-51.642 0-0.0000
8	105144	AP39X6085-CDY		-CDY	0	10-51.642 0-0.0000

id	od	bno
3	105143	12123
4	105143	12124
5	105143	12125
6	105143	12126
7	105143	12127
8	14312	OSSM1212
9	14312	OSSM1213
10	14312	OSSM1214
11	14312	OSSM1215

v)Users access

id password ac gr		nam	val	eid	tme
10 153	0 KIOSK	RAMU	1	108122	2024-04-27 11:36:44.790925
11 234	0 YARD_ADMIN	RAMESH	0	108123	2024-04-22 12:54:04.210580

vi)Notifications

id val	t	c
3 BINS E003 is been for 3 years so removed temporarily	2024-04-22 12:22:33.000000	blue
4 hola	2024-04-22 11:22:33.000000	green
5 Workorder 12178 was deleted by RAMESH because of x	2023-04-21 11:22:33.000000	red
6 Workorder 105144 was deleted by RAMU because of x	2024-04-26 10:57:30.000000	red

vii)User vehicle Configuration

id vid vname		
1 101 AP39X5681		
2 102 AP39X3329		
3 103 AP39X6085		

viii)GPS configuration

id tid tname	tmax	gid
1 101 AP39X5681	44.092	90027052019065
2 102 AP39X3329	44.092	900270520190657
3 103 AP39X6085	44.092	900270520190641

ix)Sync Material Weight

id	mid	mcode	mdesc	aweight	cweight	cstock	ptype	crt	dte	tm		
											grcode	grcodels
1	19911	611040000	BLOOM 320*250MM WT	1033.261	1029.418	1029.418	furnished	0	2023-06-21	19:49	14.000000	2
2	19912	615100700	BLOOM 200*200MM 2830	609.710	505.428	505.428	furnished	0	2023-06-21	19:49	15.000000	2
3	20187	451100025130200	ROUND 25MM IS 2062 E250A SBM	N/A	N/A	N/A	furnished	0	2023-06-21	19:53	48.000000	2
4	19980	17140656533100	BILLET 65X65 MM SAE1018	N/A	N/A	N/A	furnished	0	2023-06-21	19:50	22.000000	2
5	19914	631040000	BLOOM 320*250MM WT	1033.261	1029.418	1029.418	furnished	0	2023-06-21	19:49	14.000000	2

x)Inbound Truck

id	dt	mdesc	tname	awt	cno	mcode	nm	ono		
									on	on
1	2024-03-12 12:23:34.000000	TMT REBAR IN COIL	AP31B1213	37.346000000	9002405595	1612000010800702	28	105843		

Xi)Dispatch Truck

id	tname	dno	din	ino	mcap	mdesc	ano	avp	sno	dq		
											mcode	dstatus
2	AP39T5919	5024006028	00010	000010	33.841000000	WR COIL 8 MM SAE10821M-RH-WRM2	0	0.000/2.240	9102050995	34	.172000000	OPEN
											461800008325101	2024-04-22 07:32:23.000000

Xii)Map Coordinates

id	strt	x	y	ed
7	W001	100	252	W004
9	W001	220	280	W004
10	W001	100	240	W005
11	W001	156	236	W005
12	W001	168	360	W005
13	W001	120	344	W005
14	W001	100	240	W006
15	W001	156	236	W006
16	W001	168	360	W006
17	W001	220	344	W006
18	W001	100	240	W007
19	W001	156	236	W007
20	W001	168	400	W007
21	W001	132	400	W007
22	W001	100	240	W008
23	W001	156	236	W008
24	W001	168	400	W008
25	W001	220	400	W008
26	W001	100	240	W009

27	W001	156	236	W009
28	W001	172	440	W009
29	W001	480	360	W009
30	W001	480	180	W009
31	W001	480	184	W009
32	W001	100	240	W010
33	W001	156	236	W010
34	W001	172	440	W010
35	W001	480	360	W010
36	W001	480	180	W010
37	W001	520	170	W010
38	W001	100	240	W011
39	W001	156	236	W011
40	W001	172	440	W011
41	W001	480	360	W011
42	W001	480	240	W011
43	W001	420	240	W011
44	W001	100	240	W012
45	W001	156	236	W012
46	W001	172	440	W012
47	W001	480	360	W012
48	W001	480	240	W012
49	W001	540	224	W012
50	W001	100	240	W013
51	W001	156	236	W013
52	W001	172	440	W013
53	W001	480	360	W013
54	W001	480	280	W013
55	W001	416	280	W013
56	W001	100	240	W014
57	W001	156	236	W014
58	W001	172	440	W014
59	W001	480	360	W014

87	W002	100	300	W003
88	W002	220	216	W004
89	W002	160	300	W004
90	W002	220	280	W004
91	W002	220	216	W005
92	W002	120	360	W005
93	W002	220	216	W006
94	W002	160	304	W006
95	W002	220	344	W006
96	W002	220	216	W007
97	W002	160	304	W007
98	W002	172	400	W007
99	W002	120	400	W007
00	W002	220	216	W008
01	W002	160	304	W008
02	W002	172	400	W008
03	W002	220	400	W008
04	W002	220	216	W009
05	W002	160	304	W009
06	W002	172	430	W009
07	W002	480	360	W009
08	W002	476	176	W009
09	W002	400	176	W009
10	W002	220	216	W010
11	W002	160	304	W010

177	W003	96	304	W010
178	W003	172	304	W010
179	W003	172	430	W010
180	W003	482	368	W010
181	W003	482	172	W010
182	W003	522	172	W010
183	W003	96	304	W011
184	W003	172	304	W011
185	W003	172	430	W011
186	W003	482	368	W011
187	W003	482	236	W011
188	W003	400	236	W011
189	W003	96	304	W012
190	W003	172	304	W012
191	W003	172	430	W012
192	W003	482	368	W012
194	W003	482	236	W012
195	W003	520	236	W012
196	W003	96	304	W013
197	W003	172	304	W013
198	W003	172	430	W013
199	W003	482	368	W013

60)The following are the codes that illustrates the logic behind the execution in project

i)Menu Bar Creation

```
<h1>YARD MANAGEMENT SYSTEM</h1>
<div class="menu-bar">
<ul>

    <li><a href="#">Yard Map</a>
    <div class="sub-menu">
        <ul>
            <li class="hover-me"><a href="#">Yard Map 2D</a>
            <div class="sub-menu-2">
                <ul>
                    <li><a href="#">CSPY East Block</a></li>
                    <li><a href="#">CSPY West Block</a></li>
                    <li><a href="#">Consignment</a></li>
                    <li><a href="#">Kiosk</a></li>
                    <li><a href="#">Kiosk-2</a></li>
```

```
<li><a href="#">LY-1</a></li>
<li><a href="#">LY-2</a></li>
<li><a href="#">LY-3</a></li>
<li><a href="#">LY-4</a></li>
<li><a href="#">Parking</a></li>
<li><a href="#">Reprocessing</a></li>
<li><a href="#">Consignment</a></li>
<li><a href="#">Traffic Building</a></li>
<li><a href="#">ULY-1</a></li>
<li><a href="#">ULY-3</a></li>
<li><a href="#">ULY-4</a></li>
<li><a href="#">ULY-6</a></li>
<li><a href="#">Weighting Bridge</a></li>
<li><a href="#">Weighting Bridge-2</a></li>
</ul>
</div>

</li>
</ul>
</div></li>
<li><a href="#">Monitors</a>
<div class="sub-menu">
<ul>
<li><a href="#">Yard Monitor</a>
</li>
<li><a href="#">Rake Monitor</a>
</li>
<li><a href="#">Hook Monitor</a></li>
<li><a href="#">DashBoard </a></li>
</ul>
</div>
</li>
<li class="hover-me"><a href="#">Rake Management</a>
<div class="sub-menu">
<ul>
<li><a href="#">Hooks</a></li>
<li><a href="#">Rakes</a></li>
```

```
<li><a href="#">Wagon Type Configuration</a></li>
<li><a href="#">Pre Rake Out Verification</a></li>
</ul>
</div>
</li>
<li class="hover-me"><a href="#">Truck Manager</a>
<div class="sub-menu">
<ul>
<li><a href="#">Inbound Trucks</a></li>
<li><a href="#">Dispatch Trucks</a></li>
<li><a href="#">Dispatch by Rake</a></li>
<li><a href="#">Others</a></li>
</ul>
</div>

</div>

</li>
<li><a href="#">Workorders</a>
<div class="sub-menu">
<ul>
<li class="hover-me"><a href="#">WorkOrder Index</a>

<div class="sub-menu-2">
<ul>
<li><a href="#"> My Workorder</a></li>
<li><a href="#">Inbound via Hook</a></li>
<li><a href="#">Inbound via Truck</a></li>
<li><a href="#">Stock Verification</a></li>
<li><a href="#">MaterialProcessing</a></li>
<li><a href="#">Manual Workorder</a></li>
<li><a href="#">Rake Dispatch</a></li>
<li><a href="#">Rake Outbound</a></li>
<li><a href="#">DirectDispatchbyRake</a></li>
<li><a href="#">Truck Dispatch</a></li>
<li><a href="#">Truck Outbound</a></li>
<li><a href="#">DirectDispatchbyTruck</a></li>
<li><a href="#">Traffic Building</a></li>
<li><a href="#">CurrentWorkorders</a></li>
<li><a href="#">FinishedWorkorders</a></li>
<li><a href="#">CancelledWorkorders</a></li>
```

```
</ul>
</div>

</li>
</ul>

<ul>

<li class="hover-me"><a href="#">WorkOrder Manager</a>
    <div class="sub-menu-2">
        <ul>
            <li><a href="#">Hook Unload</a></li>
            <li><a href="#">Rake Dispatch</a></li>
            <li><a href="#">others</a></li>
        </ul>
        </div>
    </li>
</ul>

<ul>
    <li class="hover-me"><a href="#">Manual Update</a>
        <div class="sub-menu">
            <ul>
                <li><a href="#">Inventory</a></li>
                <li><a href="#">Part Bundle</a></li>
                <li><a href="#">Stock Verification</a></li>
                <li><a href="#">Material Processing</a></li>
                <li><a href="#">Hold Reasons Master</a></li>
            </ul>
        </div>
    </li>
</ul>

<ul>
    <li><a href="#">New Manual Workorder</a></li>
</ul>

</div>
```

```
</li>
<li><a href="#">Search</a></li>
<li><a href="#">Manual Updates</a></li>
<li><a href="#">Reports</a>
<div class="sub-menu">
  <ul>
    <li class="hover-me"><a href="#">Miscellaneous</a>
      <div class="sub-menu-2">

        <ul>
          <li><a href="#">dispatch truck history</a></li>
          <li><a href="#">rake plan received</a></li>
          <li><a href="#">f-note report history</a></li>
          <li><a href="#">pre rake out</a></li>
          <li><a href="#">pre rake out verification</a></li>
          <li><a href="#">rakes challan gross weightment report</a></li>
          <li><a href="#">material processing report</a></li>
          <li><a href="#">indent dispatched through yms</a></li>
          <li><a href="#">pre raked out vsloaded</a></li>
          <li><a href="#">Parking</a></li>
          <li><a href="#">dispatch rake verification</a></li>
          <li><a href="#">hold wagon history report </a></li>

        </ul>
      </div>
    </li>
  </ul>
</div>

</li>
</ul>

<ul>
  <li class="hover-me"><a href="#">Work Orders</a>
    <div class="sub-menu-2">

      <ul>
        <li><a href="#">hook workorders</a></li>
        <li><a href="#">rake plan workorders</a></li>

      </ul>
    </div>
  </li>
</ul>
```

```
        <li><a href="#">finsihed workorders detail</a></li>
        <li><a href="#">cancelled workorders</a></li>

    </ul>
</div>

</li>
</ul>

<ul>
    <li class="hover-me"><a href="#">Interface Reports</a>
        <div class="sub-menu-2">

            <ul>
                <li><a href="#">hook recieved history</a></li>
                <li><a href="#">captive truck received history</a></li>
                <li><a href="#">rake plan received history</a></li>
                <li><a href="#">truck plan received history</a></li>
                <li><a href="#">rake dispatch history report</a></li>
                <li><a href="#">rake dispatch material report
history</a></li>
                <li><a href="#">text report history</a></li>
                <li><a href="#">stock verification received
history</a></li>
                <li><a href="#">stock verification sent history
</a></li>
                <li><a href="#">material wise weight information from
erp </a></li>

            </ul>
        </div>
    </li>
```

```

        </li>
    </ul>

    <ul>
        <li class="hover-me"><a href="#">Yard Reports</a>
            <div class="sub-menu-2">
                <ul>
                    <li><a href="#">location history</a></li>
                    <li><a href="#">layer wise report</a></li>
                    <li><a href="#">stock yard stock</a></li>
                    <li><a href="#">staged yard stock </a></li>
                    <li><a href="#">material coe wise bins report
                </a></li>

                </ul>
            </div>
        </li>
    </ul>

    <ul>
        <li class="hover-me"><a href="#">Material and
Movements</a>
            <ul>
                <div class="sub-menu-2">
                    <li><a href="#">Finished material
History</a></li>
                    <li><a href="#">Individual material
History</a></li>
                    <li><a href="#">Semi material History</a></li>
                    <li><a href="#">Bin Location History </a></li>
                    <li><a href="#">Destination Location Overridden
History</a></li>
                    <li><a href="#">Timedout Workorder
History</a></li>
                </div>
            </ul>
        </li>
    </ul>

```

```
        </li>
<li><a href="#">Configuration</a>
    <div class="sub-menu">
        <ul>
            <li><a href="#">Sync Material Weight</a></li>
        </ul>

        <ul>
            <li><a href="#">Update Device Information</a></li>
        </ul>

        <ul>
            <li><a href="#">Material Management</a></li>
        </ul>

        <ul>
            <li><a href="#">Bin Configuration</a></li>
        </ul>

        <ul>
            <li><a href="#">GPS Configuration</a></li>
        </ul>

        <ul>
            <li><a href="#">Update General Configuration</a></li>
        </ul>

        <ul>
            <li><a href="#">Announcement Configuration</a></li>
        </ul>

        <ul>
            <li><a href="#">User Configuration</a></li>
        </ul>
```

```

        </ul>

        <ul>
            <li><a href="#">Update Authority</a></li>
        </ul>

        <ul>
            <li><a href="#">Update Report Authority</a></li>
        </ul>

        <ul>
            <li><a href="#">User Defined Vehicle Name</a></li>
        </ul>
        </div>
    
```

ii) Bell icon notification

```

<i class="fa fa-user-circle" style="margin-left:30%;margin-top: 6px;font-size:24px;" onclick="gk()"></i>
<div id="bell">
    <i class="fa fa-bell" style="font-size: 30px; margin-left:13px;"></i>
</div>
<script>
    // JavaScript code for handling notifications
    document.addEventListener('DOMContentLoaded', () => {
        const bellIcon = document.getElementById('bell');
        const notificationBadge = document.getElementById('notification-badge');
        const notificationsBox = document.getElementById('notifications-box');

        // Event listener for bell icon click
        bellIcon.addEventListener('click', () => {
    
```

```

        const isNotificationsVisible = notificationsBox.style.display == 'block';

        if (isNotificationsVisible) {
            notificationsBox.style.display = 'none';
        } else {
            notificationsBox.style.display = 'block';
        }
    });

});
</script>

```

```

{% if ms %}
<div id="notifications-box">
{% for k in ms %}
    <div class="notification-message" style="display:flex;flex-direction:column;background-color:{{k.c}}"><div class="x1s">{{k.val}}</div><div style="position:relative;left:60%; font-size:12px;">{{k.t}}</div></div>
{% endfor %}

```

iii)User details

```

<div id="over" onclick="cl()" style="display: none;">
    position: fixed;
    top: 0;
    left: 0;
    width: 100%;
    height: 100%;
    background-color: rgba(0, 0, 0, 0.5);
    z-index: 999;"></div>
<div class="xq" id="pp" style="display: none;">
    <div class="x1q">
        <i class="fa fa-user-circle" style="margin-left:40%;margin-top: 6px;font-size:36px;"></i>

```

```

        <div class="k3q">{{kl.nam}}<br><div class="k312q" style="font-size:14px;">{{kl.gr}}</div><div class="k31" style="text-align:left; font-size:12px;">Last login:<{kl2}></div></div>
        <div class="k1q" id="user">Settings</div>
        <div class="k1q" id="shortcuts">Shortcuts</div>
        <div class="k1q" id="weight">Change Password</div>
        <div class="k1q"><a href="{{% url 'logout'}}" style="color:red;text-decoration: none;">Log out</a></div>
    </div>
    <div class="x2q" id="contenta"></div>
    <script>
        // JavaScript to handle content updates based on clicked element
        const contentDiv = document.getElementById('contenta');

        // Function to update x2 content based on clicked element
        function updateContent(id) {
            switch (id) {
                case 'user':
                    contentDiv.innerHTML = `<form action="{{% url 'updi' %}}" method="POST" style="max-width: 300px; margin: 0 auto;" id="myf">
                        {% csrf_token %}
                    <label for="cars" style="font-size: 18px; color: #333; margin-bottom: 10px;">Choose Group</label><br>
                    <select name="vsp" id="vsp" style="width: 100%; padding: 8px; border: 1px solid #ccc; border-radius: 5px; font-size: 16px;">
                        <option value="YARD_ADMIN">YARD_ADMIN</option>
                        <option value="KIOSK">KIOSK</option>
                        <option value="Traffic Building">Traffic Building</option>
                        <option value="Guest">Guest</option>
                    </select><br><br>
                    <input type="submit" value="Submit" onclick="ghnb()" style="background-color: #4CAF50; color: white; padding: 10px 20px; border: none; border-radius: 5px; cursor: pointer; font-size: 16px;">
                </form>
                `

                break;
                case 'shortcuts':
                    contentDiv.innerHTML = `<div class="container">
                    <p style="display: inline; margin-right: 5px;">ctrl+M</p>
                    <div class="qw12" style="display: inline; margin-left: 100px;">Map</div>
                    <br>
                    <br>
                    <p style="display: inline; margin-right: 5px;">ctrl+Q</p>
                    <div class="qw12" style="display: inline; margin-left: 100px;">Home</div>
                `

            }
        }
    </script>

```

```

</div>
` ;
        break;
    case 'weight':
        contentDiv.innerHTML = ` <form id="myForm" style="margin-top: 20px;">
            <label for="input1">New Password:</label>
            <input type="password" id="input1" name="New Password" placeholder="Enter value 1" style="margin-bottom: 10px;"><br>

            <label for="input2">Confirm password:</label>
            <input type="password" id="input2" name="input2" placeholder="Enter value 2" style="margin-bottom: 10px;"><br>

            <button type="button" onclick="handleConfirm()" style="background-color: #007bff; color: #ffffff; padding: 10px 20px; border: none; border-radius: 4px; cursor: pointer;">Confirm</button>
        </form>
    `;
}

break;
case 'about':
    contentDiv.innerHTML = '<p>About content goes here...</p>';
    break;
default:
    contentDiv.innerHTML = 'Select an option from the menu...';
}
}

function ghnb(){
    event.preventDefault();
    Swal.fire({
        title: 'Confirm Group Change!!!',
        icon: 'info',
        showCancelButton: true,
        confirmButtonText: 'Confirm',
        cancelButtonText: 'Cancel',
    }).then((result) => {
        if (result.isConfirmed) {
            // Perform further actions if confirmed (e.g., submit form data)
            Swal.fire('Success!', 'Password Changed', 'success');
        }
    });
}

```

```

        // Reload the page or update UI as needed
        setTimeout(function() {
            document.getElementById('myf').submit() ;
        }, 1000);
    }
});

}

function handleConfirm() {
// Retrieve values from password input fields
const newPassword = document.getElementById('input1').value;
const confirmPassword = document.getElementById('input2').value;

// Check if passwords match
if (newPassword !== confirmPassword) {
    // Display SweetAlert error message for password mismatch
    Swal.fire({
        title: 'Password Mismatch',
        text: 'The entered passwords do not match. Please try again.',
        icon: 'error',
        confirmButtonText: 'OK'
    });
    return; // Exit function early if passwords do not match
}
const formData = new FormData();
formData.append('new_password', newPassword);

// Send POST request to Django view to change password
fetch('changepassword', {
    method: 'POST',
    body: formData,
    headers: {
        'X-CSRFToken': '{{ csrf_token }}' // Include CSRF token for CSRF
protection
    }
})
// Display SweetAlert confirmation dialog if passwords match

Swal.fire({
    title: 'Confirm Password Change',
    html: `You are about to change your password  
to:<br>${newPassword}</strong>` ,

```

```
icon: 'info',
showCancelButton: true,
confirmButtonText: 'Confirm',
cancelButtonText: 'Cancel',
}).then((result) => {
  if (result.isConfirmed) {
    // Perform further actions if confirmed (e.g., submit form data)
    Swal.fire('Success!', 'Password Changed', 'success');
    // Reload the page or update UI as needed
    setTimeout(function() {
      window.location.href = 'changepassword';
    }, 1000);
  }
});
}

// Event listener to handle clicks on .k1 elements
const k1Elements = document.querySelectorAll('.k1q');
k1Elements.forEach(element => {
  element.addEventListener('click', () => {
    updateContent(element.id);
  });
});
</script>

</div>

<script>
  // Function to display the modal and overlay

  function gk() {
    document.getElementById("over").style.display = "block";
    document.getElementById("pp").style.display = "block";
  }

  // Function to close the modal and overlay
  function cl() {
    var overlay = document.getElementById("over");
    var modal = document.getElementById("pp");

    // Check if the clicked element is the overlay itself
    if (event.target === overlay) {
      modal.style.display = "none";
      overlay.style.display = "none";
    }
  }
</script>
```

```
        }
    }
</script>
```

iv)CSV generation

```
def generate_csv(request):
    # Query your database to fetch data (example query)
    queryset = Hook.objects.all()

    # CSV column headers (example: replace with your field names)
    headers = ['platform', 'h_number', 'Status', 'count']

    response = HttpResponse(content_type='text/csv')
    response['Content-Disposition'] = 'attachment; filename="data.csv"'

    # Create CSV writer
    writer = csv.writer(response)
    writer.writerow(headers)

    # Write data rows to CSV file
    for obj in queryset:
        row = [getattr(obj, field) for field in headers]
        writer.writerow(row)
    return response
```

v)PDF Generation

```
def generate_pdf(request, object_id):
    # Retrieve the object from the database
    obj = get_object_or_404(Obj, pk=object_id)

    # Render the template with the object data
    context = {'k': obj}
    html = render_to_string('cdy/print.html', context)

    # Generate the PDF
    pdf = render_to_pdf(html)

    # Prepare the HTTP response with the PDF content
    if pdf:
```

```

        response = HttpResponse(pdf, content_type='application/pdf')
        filename = f"PDF_{obj.id}.pdf" # Use object ID in the filename
        content = f"inline; filename={filename}"
        response['Content-Disposition'] = content
        return response
    return HttpResponse("Page Not Found")

```

vi)Current workorder with certain requirements

```

q=Wagon.objects.filter(od=id)

l=id
m=Inb.objects.filter(od=id)
l1={}
x="INBOUND VIA HOOK"
l1[1]=Bund.objects.filter(od=l).values_list('bno')
k4=Loc.objects.filter(lid=l)
kr=Loc.objects.filter(lid=l)
kn=request.META.get('HTTP_REFERER', None)
lk={}
prev_obj = None
for current_obj in k4:
    lk[current_obj] = prev_obj
    prev_obj = current_obj

return
render(request,"cdy/test.html",{'y':m,'l':l,'id':id,'l1':l1,'x':x,'k4':k4,'kn':kn,
,'kr':kr,'lk':lk})

```

Vi)After successful login

```

f=Hook.objects.all()
k1=User.objects.get(val=1)
l=k1.tme.strftime("%d/%m/%Y %H:%M:%S")
ms=Mseg.objects.all().order_by('-t')
return render(request,'cdy/admin.html',{'f':f,'k1':k1,'k12':l,'ms':ms})

```

vii)Rake

```

f=Rake.objects.all()
st=Rake.objects.get(pk=id)

```

```

x=st.ino
studi=Wagn.objects.filter(ino=x)
mi = Wagn.objects.filter(ino=x).values_list('wname', flat=True).distinct()
distinct_wnames      =      Wagn.objects.filter(ino=x).values_list('wname',
flat=True).distinct()
z1=Wagn.objects.all()
k2 = []
for wname in distinct_wnames:
    wagon = Wagn.objects.filter(ino=x).filter(wname=wname).first()
    if wagon:
        k2.append(wagon)
l2={}
l3={}
for d1 in k2:
    for y in mi:
        l2[y] = set(Wagn.objects.filter(ino=x).filter(wname=y))

l3[y]=set(Wagn.objects.filter(ino=x).filter(wname=y).values_list('dcode',flat='True')))

kjm=st.asgn
return
render(request,'cdy/rake.html',{'f':f,'k':studi,'x':x,'l2':l2,'l3':l3,'k2':k2,'kj
m':kjm})

```

viii)Hook Monitor

```

k=Hook.objects.all().values_list('platform').distinct().exclude(platform='N/A')
l1={}
l2={}

distinct_wnames = Hook.objects.values_list('platform', flat=True).distinct()

mi = Hook.objects.values_list('platform', flat=True).distinct()

k12 = []
for plat in distinct_wnames:
    platf = Hook.objects.filter(platform=plat).first()
    if platf:
        k12.append(platf)

```

```

for d1 in k12:
    for y in mi:
        l1[y] = set(Hook.objects.filter(platform=y).values_list('h_number'))
mii = Wagon.objects.values_list('h_number', flat=True).distinct()

k121 = []
distinct_hnames = Wagon.objects.values_list('wname', flat=True).distinct()

l12={}
for plat in distinct_hnames:
    platf = Wagon.objects.filter(wname=plat).first()
    if platf:
        k121.append(platf)

for y in mii:
    for z in mii:
        l12[y] = set(Wagon.objects.filter(h_number=y).values_list('wname'))

return render(request, 'cdy/hookdisplay.html',{'l1':l1,'l2':l12})

```

ix)Rake Monitor

```

k=Rake.objects.all().values_list('pt').distinct().exclude(pt='N/A')
l1={}
l2={}

distinct_wnames = Rake.objects.values_list('pt',
flat=True).distinct().exclude(pt='N/A')
z1=Rake.objects.all()
mi = Rake.objects.values_list('pt', flat=True).distinct().exclude(pt='N/A')
k12 = []
for plat in distinct_wnames:
    platf = Rake.objects.filter(pt=plat).first()
    if platf:
        k12.append(platf)

for d1 in k12:

```

```

        for y in mii:
            l1[y] = set(Rake.objects.filter(pt=y).values_list('ino'))
mii = Wagn.objects.values_list('ino', flat=True).distinct()

k121 = []
distinct_hnames = Wagn.objects.values_list('wname', flat=True).distinct()
l12={}
for plat in distinct_hnames:
    platf = Wagn.objects.filter(wname=plat).first()
    if platf:
        k121.append(platf)

        for y in mii:
            for z in mii:
                l12[y] = set(Wagn.objects.filter(ino=y).values_list('wname'))

return render(request, 'cdy/rakemonitor.html',{'l1':l1,'l2':l12})

```

x)Platform assigning

```

if request.method == 'POST':
    k = Hook.objects.get(pk=id)
    m = request.POST.get('namq'+str(k))
    if m:
        k.platform = m
        k.Status = "RAKE_ARRIVED"
        k.save()
        return redirect('home')
    return redirect('home')

```

xi)Map coordinates

```

t=request.GET.get('source')
q=request.GET.get('destination')
m=Map.objects.filter(strt=t,ed=q) or Map.objects.filter(strt=q,ed=t)

return render(request, 'cdy/ymsmap.html',{'t':t,'q':q,'m':m})

```

```
<script>
```

```
let k = "{{t}}";
let k12 = "{{q}}";

function handleKeyPress(event) {
    if (event.ctrlKey && (event.key === 'q' || event.key === 'Q')) {
        // Redirect to the specified URL
        window.location.href = 'home';
    }

    if (event.keyCode === 13) { // Check if Enter key (key code 13) is pressed

        const value1 = document.getElementById('input1').value.trim();
        const value2 = document.getElementById('input2').value.trim();

        // Reset previous background colors
        if (k && document.getElementById(k)) {
            document.getElementById(k).style.background = "white";
        }
        if (k12 && document.getElementById(k12)) {
            document.getElementById(k12).style.background = "white";
        }

        // Set new background colors based on input values
        if (value1) {
            const targetElement1 = document.getElementById(value1);
            if (targetElement1) {
                targetElement1.style.background = "pink";
                k = value1;
            }
        }
        if (value2) {
            const targetElement2 = document.getElementById(value2);
            if (targetElement2) {
                targetElement2.style.background = "blue";
                k12 = value2;
            }
        }
    }
}
```

```

        }
    }

    event.preventDefault();
    // Check if both input fields have values, then submit the form
    if (value1 && value2) {

        document.getElementById('myForm').submit()

    }
}

// Add key press event listener to both input fields
document.getElementById('input1').addEventListener('keypress',
handleKeyPress);
document.getElementById('input2').addEventListener('keypress',
handleKeyPress);
document.addEventListener('keydown', handleKeyPress);

</script>

```

x)Map coordinates with mapcontainer and dragging of map

```

<script>

const mainContainer = document.querySelector('.maincontainer');
const mapContainer = document.querySelector('.mapcontainer');
let isDragging = false;
let startX, startY;
let translateX = 0, translateY = 0;
let scale = 1;

const scaleDisplay = document.getElementById('scaleDisplay');

function updateScaleDisplay() {
    scaleDisplay.textContent = `Scale: ${scale.toFixed(2)} `;
}

```

```
mapContainer.addEventListener('mousedown', (event) => {
    isDragging = true;
    startX = event.clientX;
    startY = event.clientY;
    mapContainer.style.cursor = 'grabbing';
});

document.addEventListener('mousemove', (event) => {
    if (isDragging) {
        const deltaX = event.clientX - startX;
        const deltaY = event.clientY - startY;
        translateX += deltaX / scale;
        translateY += deltaY / scale;
        mapContainer.style.transform = `translate(${translateX}px,
${translateY}px) scale(${scale})`;
        startX = event.clientX;
        startY = event.clientY;
    }
});

document.addEventListener('mouseup', () => {
    isDragging = false;
    mapContainer.style.cursor = 'grab';
});
function updateCoordinates(event) {

    const rect = mapContainer.getBoundingClientRect();
    const scaleX = mapContainer.clientWidth / rect.width;
    const scaleY = mapContainer.clientHeight / rect.height;

    const mouseX = (event.clientX - rect.left) / scaleX;
    const mouseY = (event.clientY - rect.top) / scaleY;

    const mapX = (mouseX - mapContainer.clientLeft) / scale;
    const mapY = (mouseY - mapContainer.clientTop) / scale;
    document.getElementById('X').value = mapX.toFixed(2);
    document.getElementById('Y').value = mapY.toFixed(2);

    // logic x--> 4*x    y--> (y-14)*4
}
```

```
}

mapContainer.addEventListener('mousemove', updateCoordinates);

// Event listener for scaling the map container
function scaleMapContainer(delta) {
    scale += delta;
    mapContainer.style.transform = `scale(${scale})`;
    updateCoordinates(event); // Update coordinates after scaling
}

// Add event listeners for zooming in and out using mouse wheel

</script>
```

Conclusion

YARD MANAGEMENT SYSTEM is vital to the organization to know what type of products are imported and exported in a safe and authentic way from RINL. This project also helps in building up new ideas in solving industrial problems and helps in creation of software for large dumps of yards.

With this project one can become excel in full stack development and also can become ease in tackling junk and complex datasets. This helps in doing calculations in software rather than physically going to yards and checking the bins.

References

<https://www.djangoproject.com/>

<https://www.w3schools.com/html>

<https://www.w3schools.com/mysql>

Glossary

HTML

CSS

JS

MYSQL

DJANGO