



Asset Performance Management System

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Table of Contents

The Scope of the Project	4
1. Introduction	4
2. Dashboard	5
2.1 Asset Details	5
2.2 Location Details: Comprehensive Details about Locations	5
2.3 Assets Location	6
2.7 Asset view	6
3. Onboarding Real-time data	8
3.1 Location: Showcase Existing Locations	8
3.1.1 Template Download, Upload, Generate and Upload	9
3.2 Assets: Display Existing Assets	10
4 Configuration	13
4.1 Roles: Create Admins and Roles	13
4.2 User: Listing Platform Users	14
4.3 Asset template: Creating Sample Data for Assets	16
5. Task template: Generating Sample Task Data	19
6. Reports	21
6.1 Asset Movement Report	21
6.2 QR Code	22
6.2.2 Generate QR code: Instructions on generating QR codes	22
6.2.3. Mobile Application: Information regarding the mobile application	22

The Scope of the Project

This document aims to cover the key features of the web portal, address the problem of inefficient asset tracking, and provide a solution through our comprehensive tracking and management system.

1. Introduction

Asset Telematics aims to revolutionize Asset Performance Management Solutions through our innovative solutions. Leveraging an open-source IoT architecture, the solution seamlessly integrates various devices, sensors, third-party systems, and communication channels.

Challenges in Tracking Assets

Traditional asset management systems often lack real-time tracking capabilities, leading to inefficiencies in monitoring critical assets throughout their lifecycle. Manual tracking of inter-departmental Assets resulted in delays in identifying and delivering orders. Ineffectiveness in real-time tracking of Movement of tasks as well as In-efficient operational efficiencies and lower performance of Assets.

Solutions Offered by Asset Telematics:

Asset Telematics addresses this problem by offering a comprehensive tracking and management system that provides near real-time visibility to asset locations, conditions, and statuses. Our innovative solutions leverage advanced sensors and open-source IoT architecture to seamlessly integrate diverse devices and systems, ensuring continuous monitoring and timely insights. Our goal is to empower users to make data-driven decisions, optimize asset utilization, and enhance overall operational efficiency.

Benefits of using Asset Management

These products not only ensure sustainability but also bring substantial cost savings. Asset Telematics has successfully reduced project development costs by 15-20% for our

clients, through our innovative reusable components. The goal is to provide cost-effective solutions that underscore our dedication to your success.

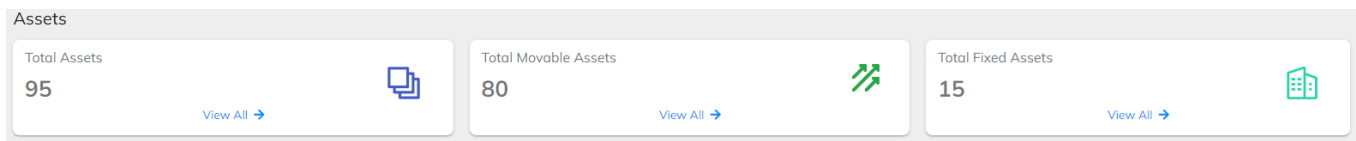
2. Dashboard

The *dashboard* screen displays a one-stop view of your assets. You can view the summary of Asset details, location details, location and inventory, locations map, deliveries by destination, live asset location map, delivery status, and average loading time. The dashboard is updated based on the onboarding of Assets & locations.

2.1 Asset Details

The *Asset Details* section displays the number of Assets that are *Total Assets*, *Movable Assets* & *Fixed Assets*. You can also view the Asset details like Asset Tag, Asset name, origin, current temperature, and current location, and Alerts in the popup Screen by clicking on the View All button.

- **Total Assets:** it should show the total onboarded Asset count which is added by the user.
- **Total Movable Assets:** it should show the count of added Assets which having Asset Nature as Movable.
- **Total Fixed Assets:** it should show the count of added Assets which have Asset Nature as Fixed.



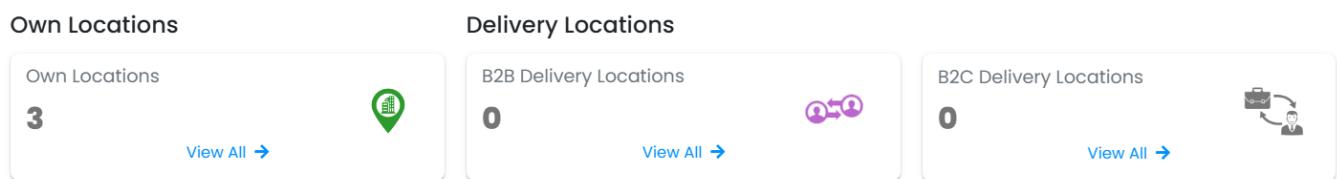
2.2 Location Details: Comprehensive Details about Locations

The *Location Details* section displays the number of locations that are *Own & Delivery locations*, *Delivery Location* is Divided into Two categories that are *B2B delivery location* & *B2C delivery location* You can also view the Location details like location, and Location name.

Address and Map in the popup screen by clicking on the View All Button.

All the devices are categorized as below:

- **Own Locations:** It shows the count of own locations which is onboarded by the user.
- **Delivery Locations:** Delivery locations are categorized into two types
 - B2B Delivery Locations
 - B2C Delivery Locations
- **B2B Delivery Locations:** It shows the count of B2B delivery locations which are onboarded by the user.
- **B2C Delivery Locations:** It shows the count of B2C delivery locations which are onboarded by the user.

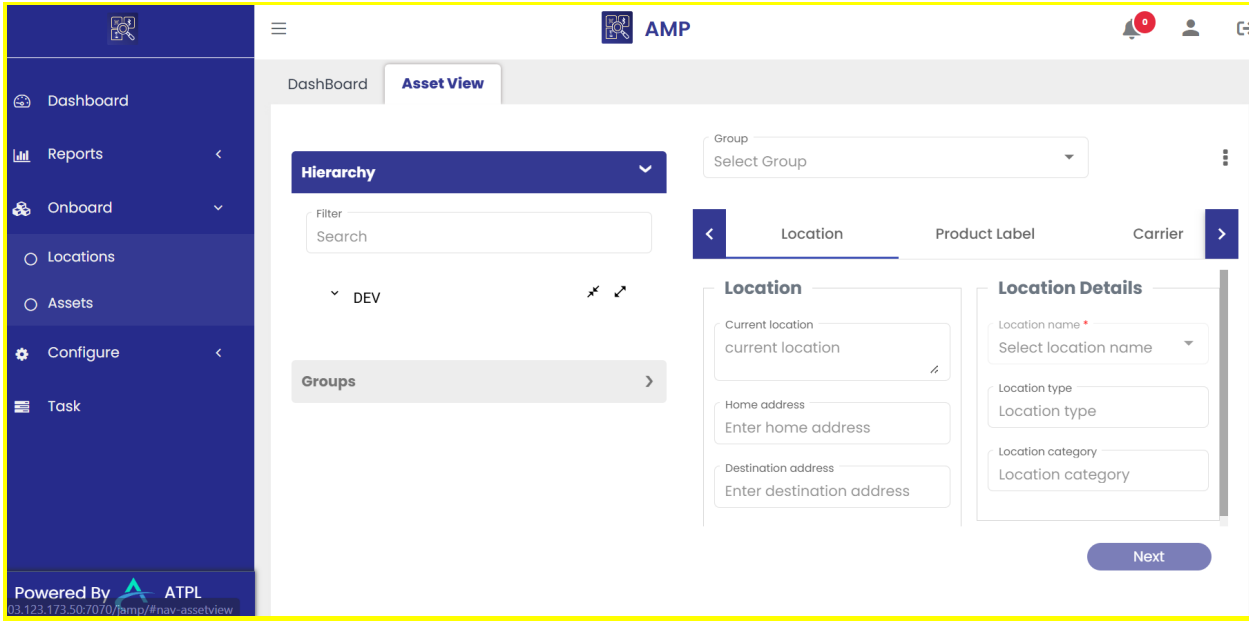


2.3 Assets Location

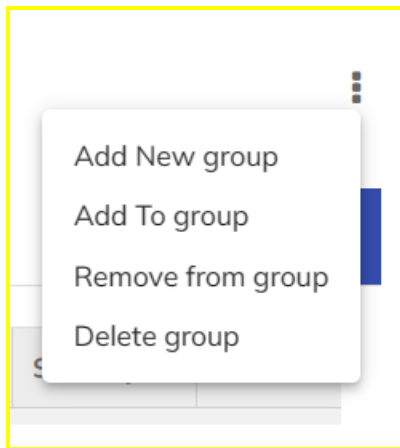
This map shows the Movable and Fixed tagged Asset location which that asset highlights with the Alerts. The **Green color** is known as a Normal Alert and the **Red color** is known as a Critical Alert. There is one data filter to fetch the data based on Live Assets and Idle Assets.

2.7 Asset view

Asset view is one of the places to view all the assets in a single screen in a hierarchy structure, in this we can create groups, assign assets to groups, remove assets from groups, and delete the group. We can also see the assets in groups wise on this screen.



- It will display the Hierarchical structure, Group structure, asset data.
- You can view the Asset details by clicking on assets under hierarchy levels and groups
- You can create groups by clicking Add new group under the right-side menu



- You can see the groups under the group's dropdown
- You can Add Assets to the group by clicking on Add to Group.

3. Onboarding Real-time data

You can find onboard the data from the *Onboard* option on the left side of the menu. Clicking on this option would expand the menu to show the following components:

- Location
- Assets

3.1 Location: Showcase Existing Locations

The Location screen showcases a list of existing locations on the platform.

Onboard > Location Onboarding

+ Add Location

Template

Upload

Generate

Jobstatus

Search By...

S.No	Location Name	Location Type	Location Deliveries	Location Category	Address	Latitude	Longitude	Action
1	Capital Park Office	Own Location	---	OL_Manufacturing Unit	Old Office Location	17.4506	78.3855	 
2	Hospital123456	Own Location	---	OL_Manufacturing Unit	123456789	13.6288	79.4192	 
3	Taluka	Own Location	---	OL_Sales	Ramoji Film City, Hyderabad	17.2641	78.6816	 
4	Asset Office	Own Location	---	OL_Manufacturing Unit	Near Gachibowli Circle.	17.4386	78.3643	 
5	Vizag	Own Location	---	OL_College	BenzCircle	17.3762	20.3847	 

Items per page: 51 - 5 of 817< < > >|

To add a new location, adhere to these steps:

- 1) Click on the "Add Location" button, which opens a form for entering new location details.

Onboard > Location Onboarding

+ Add Location

Template

Upload

Generate

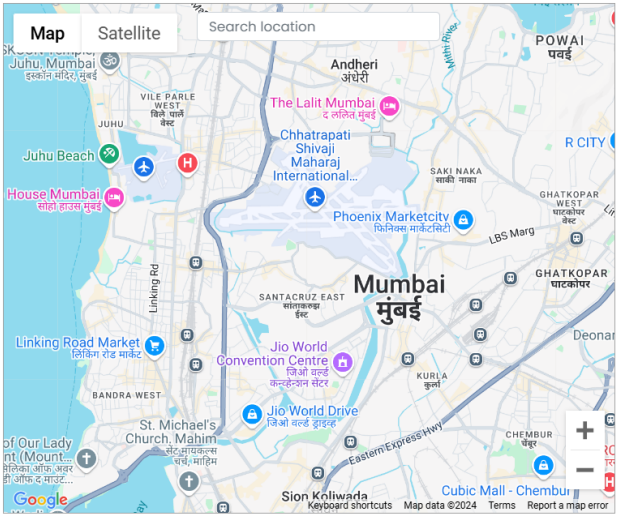
Jobstatus

Search By...

← Onboard > Location Onboarding > Add Location

Location Name * Enter Location Name	Location Type * Select Location Type
Pincode * Enter Pincode	Location Category Select Location Category
Address Line2 Enter Address Line2	Address Line1 * Enter Address Line1
District * District	State * State
Country * Country	City * City
	Latitude * Latitude
	Longitude * Longitude

Clear Cancel Save



- 2) Provide essential location information, including Location name, Location type, Location Delivery, Location category, Address Line 1, Address Line 2, Pin Code, Country, State, District, City, Latitude, and Longitude.
- 3) Users can add location categories for selected location types.
- 4) Retrieve state, country, district, and city data by entering a PIN code or searching the location on the map.
- 5) Mandatory fields are indicated where necessary; fill in the details accordingly.
- 6) Click "Save" to add the new location details.

Users can edit and delete locations by clicking on the respective buttons in the Action Column.

You can find mandatory and non-mandatory fields marked in the sample Excel spreadsheet.

3.1.1 Template Download, Upload, Generate and Upload

You can manage data requests and downloads from these options:

Onboard > Location Onboarding

[+ Add Location](#)
[Template](#)
[Upload](#)
[Generate](#)
[Jobstatus](#)

Search By...

1. **Template:**

- Clicking on “Template” downloads an Excel file that serves as a data upload template.
- Use this template to input bulk data, then upload it through the provided “Upload” option.

2. **Download:**

- Allows for direct downloading of available data.

3. **Generate:**

- Initiates a new request for generating location details.
- Once generated, all location details can be viewed and downloaded.

4. **Job Status:**

- View the current status of a data generation request initiated via the “Generate” option.
- If the job status indicates completion, the location data can be downloaded in Excel format.

3.2 Assets: Display Existing Assets

The assets screen displays the list of Assets already existing on the platform and the ones that need to be added.

Onboard > Asset Onboarding

+ Add Asset

Template

Upload

Generate

Jobstatus

Search By...

Template

Select Template

S.No	Asset Name	Asset Type	Asset Category	Asset Nature	Device Type	Device IMSI / Mobile Number	MFG Serial Number	Asset Id	Location Name	Action
1	MSI2	Developemt	Laptop	Movable	N/A	NONE / N/A		1718256501872911	Asset Office	
2	MSI	Developemt	Laptop	Movable	N/A	NONE / N/A		1718255194685781	Asset Office	
3	DELL	Developemt	Laptop	Movable	N/A	NONE / N/A		1718254744951075	Asset Office	
4	MSI	Developemt	Laptop	Movable	N/A	NONE / N/A		1718254645890607	GachibowliOffice	
5	gwgeg	LPG domestic	Cylinders	Fixed	N/A	NONE / N/A		1717760330677415	Asset Office	

Items per page: 5

1 - 5 of 26

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To add the new Asset, one needs to follow these steps:

- 1) Click the *Add Asset* button to enter new Asset details.

Onboard > Asset Onboarding > Add Asset

Template

Select Template

Hierarchy

Filter

Search

Location

Current location

Current location

Home address

Enter home address

Destination address

Enter destination address

Product Label

Carrier

Physical

Location Details

Location name *

Select location name

Location type

Location type

Location category

Location category

Cancel

Next

- 2) It would display the Template dropdown option, and based on the selection of the template, the screen would display the data.
- 3) After selecting the template, the screen would display Location, Product label, Carrier, Physical Property, Special Property, Allocation, Monitor & Command tabs.

- 4) Users can see the Hierarchical structure on the left side of the screen, which shall display the selected level based on the template.

Onboard > Asset Onboarding > Add Asset

Template: Laptop

Hierarchy

Filter: Search

- AssetTelematics
 - InformationTechnology
 - Development
 - LaptopsAccessories
 - ☒ MyLaptop
- HR
- QA
- ONE

Location

Current location: Current location

Home address: Enter home address

Destination address: Enter destination address

Location Details

Location name: Asset Office

Location type: Own Location

Location category: OL_Manufacturing Unit

Cancel Next

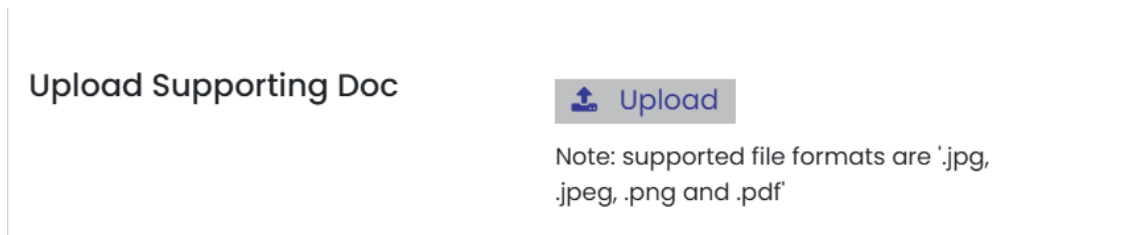
- 5) The user can select/change the location from the dropdown, and the user can change the existing data.
- 6) The user should navigate to the next tab by clicking on the next button.
- 7) The next tab is the Product Label, which contains a form where product details like Asset Name, Unique Identification Tag, Serial Number, etc., can be added and also Users are able to change the existing data.
- 8) Users should be able to Add Asset Categories and Asset Types by clicking on



Icon.

- 9) The next tab is Carrier, would displays vehicle, driver, delivery person, aggregator, and auto expiration time of those carriers
- 10) Users can change the existing data and fill in the required details.
- 11) The next tab is physical Properties, this tab contains product dimension details and quantity details.
- 12) Users can change the existing data and fill in the required details.
- 13) Users can upload the supported documents by clicking on the icon.
- 14) The next tab is Special Properties, which contains special property details like disposal information, recycling details, disposal information, goods information, user manual, etc.

15) Users can upload supported documents in the section displayed below.



16) The next tab is Allocation, which contains different asset cost details.



17) Users can able to add/edit/delete currency by clicking on

18) The next tab is Monitor & command details, this tab contains Asset ID, Device details

19) Users can Tag an Asset with the device in this tab.

20) Users can navigate to the back page by clicking on the Previous button

21) Users can cancel the Asset creation by clicking on the cancel button. in the location & product label tab user can directly cancel the Asset creation, in other tabs user when we click on cancel it will ask confirmation popup to save the Asset.

- Users can Edit and Delete Assets by Clicking on Buttons in Action Column
- Users can edit multiple Assets on a single page by clicking on Hierarchy levels, under the levels users can see the multiple assets, by clicking on those assets users can edit multiple assets.
- Users can print the QR code of the Asset by Clicking on the QR code Icon.
- Users can view the asset details in Readable mode, on one page by clicking Hierarchy levels. User can see the multiple assets at a time.
- You can download the Asset details in an Excel format by following these steps
 - o Click on the Download Button, Job will be started
 - o Click on View Jobstatus
 - o Click on Download  Icon
- You can search the required data using the available search functionality.
- You can download a sample Excel by clicking on the download template sample Excel

- You can download templates based on the selection

Onboard > Asset Onboarding



- You can enter new asset information in bulk in Excel, which can be then uploaded by clicking on the upload icon. The sample Excel will have mandatory and non-mandatory fields marked.

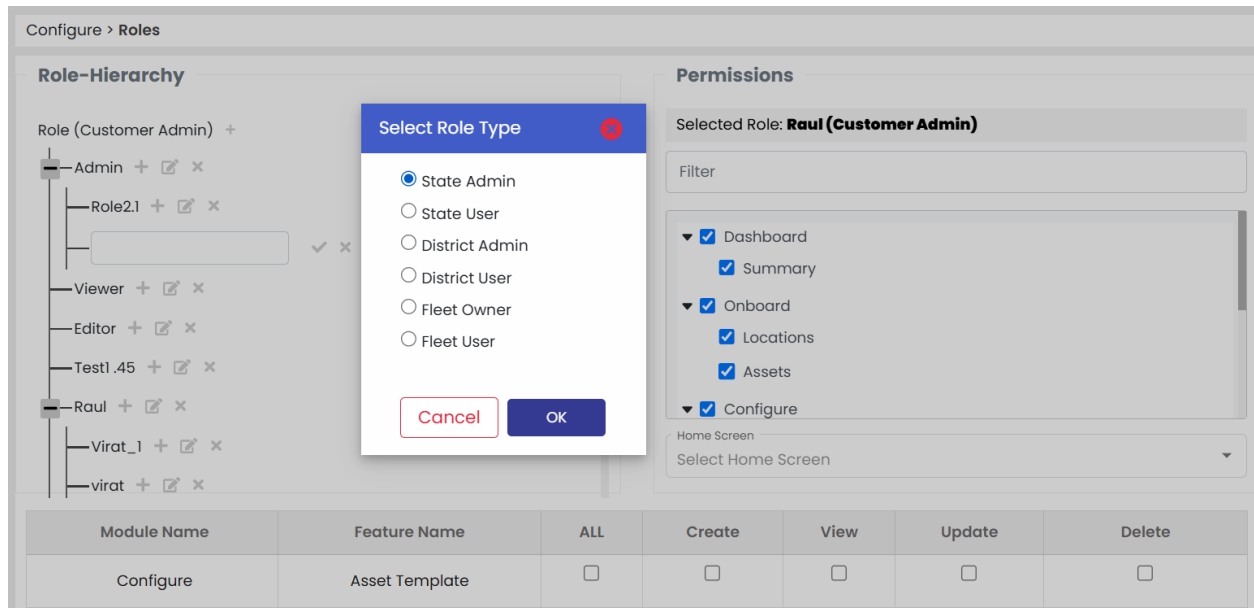
4 Configuration

4.1 Roles: Create Admins and Roles

In the Configure option, we have role creation options, including State Admin, State User, District Admin, District User, Fleet Owner, and Fleet User. Here, Fleet Users cannot access Fleet Owner data, and similarly, District Users and State Users cannot access data from District Admin and State Admin, respectively. State Admins can view all data, including district and fleet, while District Admins can view only district and fleet data.

Access and edit the role hierarchy on the roles screen, allowing for viewing and modification of the existing structure:

- Click on the  button to add a new role.
- Click on the  button to edit an existing role.
- Click on the  button to delete an existing role.



In the *Configure* section, we have options to set up specific permissions for users, allowing for tailored experience based on role requirements. We can manage each user's ability to *Create*, *View*, *Update*, and *Delete* data for both *Locations* and *Assets*.

4.2 User: Listing Platform Users

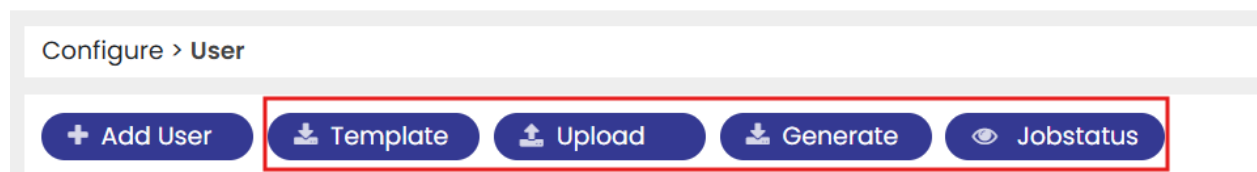
The user screen displays the list of users on the platform.

Configure > User						
+ Add User Template Upload Generate Jobstatus Search By...						
S.No	Name	Login Email	Registered Mobile Number	Role Name	Default Map	Action
1	Praneeth	testassetabc@gmail.com	9482874362	Admin	hyd	
2	John	amptest@gmail.com	9999940123	CustAdmin_1	tanuku	
3	Manoj Tiwari	manojtiwari@assettl.com	9888888887	Admin	hyd	
4	Shah	tarunjillela@gmail.com	9345578922	Admin	hyd	
5	Mahesh	mahesh.ram@gmail.com	9160675814	Viewer	hyd	

Items per page: 5
1 - 5 of 7

- You can add the user by clicking on the tab.
- Fill in the name, registered mobile number, role name, default map, action, etc.-

- Under action, you can edit and delete the information filled in.
- You can download a sample Excel by clicking on the download template sample Excel
- You can download templates based on the selection



- You can enter new User information in bulk in Excel, which can be then uploaded by clicking on the upload icon. The sample Excel will have mandatory and non-mandatory fields marked.

4.3 Asset template: Creating Sample Data for Assets

An Asset template is a sample data to keep track of multiple assets with the same details. The Asset template contains Hierarchy, Location, product label, Carrier, Physical property, Special property, Allocation, and Monitor & Command tabs.

- These tabs contain various information about the assets under different tabs.
- You need to provide the data of the Asset.

- You can create a template by clicking on Create template.
- The asset template screen should display already added templates by the user.

Configure > Asset Template

[+ Create Asset Template](#)

S.N	Template Name	Action
1	tq34tq34	
2	Laptop	
3	Sharathcitycapital	
4	RFM Testing	
5	testingl	

Items per page: 5 1 - 5 of 26 < > >>

- Users can search the template by using the search functionality.
- To create a template, follow these steps:

1) Click on Create template will open the Hierarchy screen first.

Configure > Asset Template > Create Asset Template

[Hierarchy](#) [Location](#) [Product Label](#) [Carrier](#) [Physical Property](#) [Special Property](#) [Alloc](#)

Hierarchy

Template Name*
Enter template name

Level +

- AssetTelematics +
 - InformationTechnology +
 - Development +
 - LaptopsAccessories +
 - MyLaptop +
- HR +

[Cancel](#) [Next](#)

- 2) You need to give the template name here and the template name is unique.
- 3) You can create a Hierarchy according to your requirements, Hierarchy is specific to the customer.
- 4) You can Add hierarchy levels up to 7 levels.
- 5) You can edit/delete the levels.

- 6) Users can navigate to the Location tab by clicking on the next button.
- 7) The location tab displays location details like current location, Home location, destination, location name, and alert rules.
- 8) You can select the existing locations from the dropdown, based on the selected location it will get the location category and type details.
- 9) You can add a location by clicking on  the Button.
- 10) Users can add alert rules by clicking on  the icon
- 11) You should select the Hierarchy level in the location tab.
- 12) You can navigate to the product label by clicking on the next button.
- 13) The product label tab displays product label details, Asset details, Custom data, and hierarchy details.
- 14) Users can add asset categories and asset types by clicking on  the Button.
- 15) Users can add Custom data by clicking on the Custom Data button.
- 16) Users can navigate to the carrier tab by clicking on the Next button.
- 17) The carrier tab contains the vehicle, Driver, Aggregator, delivery person details, and auto expiration details of the carrier.
- 18) You can add a vehicle, driver, aggregator, or delivery person by clicking on  the button.
- 19) You can add Alert rules in this tab.
- 20) The next tab is Physical Properties, this tab contains Asset physical measurements and can upload the supported document.
- 21) You can add alert rules in this tab.
- 22) The next tab is Special Properties, this tab contains special details of the Asset and can upload supported documents.
- 23) The next tab is the Monitor & command tab, in this tab the user can assign a device with an asset with different device types.
- 24) You can add alert rules in this tab.
- 25) Click on the previous tab to go to the previous page.

- You can edit and delete the Asset template by clicking the edit & delete buttons.
- You can copy the template by giving the template name.
- You can fetch the data by using pagination.

The screenshot shows the 'Asset Template' management page in the APMS system. The left sidebar contains navigation links: Dashboard, Onboard, Configure (selected), Roles, Users, Asset Template (highlighted), Task Template, Task, and Reports. The main content area is titled 'Configure > Asset Template' and includes a '+ Create Asset Template' button and a search bar. Below these is a table listing existing templates.

S.No	Template Name	Action
1	tq34tq34	
2	Laptop	
3	Sharathcitycapital	
4	RFM Testing	
5	testing1	

At the bottom right, there is a pagination control showing 'Items per page: 5' and '1 - 5 of 26'.

5. Task template: Generating Sample Task Data

The template is to create sample data of tasks for the workflow, this is used for assigning a task to the specific asset. This task template contains template details, Task details, a Hierarchy, a Checklist, a Job sheet, and Consumable expense list tabs.

The screenshot shows the 'Task' management page in the APMS system. The left sidebar is the same as the previous screenshot. The main content area is titled 'Task' and includes a '+ Add Task' button and a search bar. Below these is a table listing existing tasks.

S.No	Task Id	Task Type	Subtask Type	Task Template Name	Assigned By	Assigned To	Assets	Groups	Action
1	Mg6721c833YaA2	Periodic	frequently	ITC	bhargav.yalamuri@assettl.in	maresh.ram@gmail.com	Chairs	Patient, Nurses	
2	p6720ceca6qyp1	Periodic	w2	rajapractice	bhargav.yalamuri@assettl.in	bhargav.yalamuri@assettl.in	MSI, MSI2	Doctors, Housekeeping Carts	
3	5zv66c83528fQ3	Periodic	w2	rajapractice	bhargav.yalamuri@assettl.in	bhargav.yalamuri@assettl.in	MSI, MSI2	Doctors, Housekeeping Carts	
4	RN5966c834a9s4	Periodic	w2	rajapractice	bhargav.yalamuri@assettl.in	bhargav.yalamuri@assettl.in	MSI, MSI2	Doctors, Housekeeping Carts	
5	8p66c833a290M2	Periodic	w2	rajapractice	bhargav.yalamuri@assettl.in	bhargav.yalamuri@assettl.in	MSI, MSI2	Doctors, Housekeeping Carts	

At the bottom right, there is a pagination control showing 'Items per page: 5' and '1 - 5 of 43'.

- These Tabs contain various information about the task in different tabs
- Provide the data for the task that needs to be assigned.
- Create a template by clicking on the Add task template.
- The task template screen should display already added templates by the user.
- Users can search the template by using the search functionality.

Create the template details by clicking on the Template details.

- 1) Clicking on the Task template will open the Template details screen first.
- 2) In this tab, the user needs to provide the template name, and task type details and add the subtask type to the task type by clicking on the add button.
- 3) The next tab is Task details, It contains task descriptions, task ID, Schedule start date/end date, Actual start date/end date, Assignee user details, status of the task, and make recurrence.
- 4) Make the tasks recurring by clicking on the "Make Recurring" button.
- 5) You can make the recurrence in the daily, weekly, monthly, and yearly patterns.
- 6) Next tab in the hierarchy, in this tab, you can assign that task to groups and assets, assets can be visible in the hierarchy level pattern.

- 7) The next tab is a checklist, in this tab, where the user can add input type, input value, description, and related text fields.

Add Check List

Input Type*

Text

Input Value*

Enter input value

Description*

ergqwrq

IsMandatory*

No

Update

- 8) You can edit/delete the checklists.
- 9) The next tab is the consumable expense list, in this tab you can add an expense list of the items, and you can edit/delete the expense list.
- 10) The next tab is the Job Sheet, in which you can add job sheets for employees, and you can edit/delete the job sheet.

- You can edit and delete the task template.
- You can copy the template by providing the template name.
- You can fetch the data by using pagination.

6. Reports

Under the report tab, you can find the Asset Movement Report which displays the report of each asset name. It encompasses the details of the Asset like name, ID, reason for movement, current location, and destination.

You can set the time for which you want the report.

S.No	Asset Name	Asset Id	Reason For Movement	Current Location
1	MSI2	1718256501872911	New Deployment	N/A
2	MSI2	1718256501872911	New Deployment	Asset Office

6.1 Asset Movement Report

The *dashboard* screen displays the count of Total Assets, Total Movable Assets, and Total Fixed Assets. The map shows the Assets onboarded locations. The table shows the Asset information like Asset name, Asset Tag, Consignment ID, Origin, Current location, Alerts, and Current Temperature.

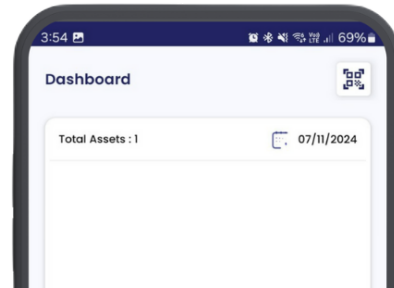
6.2 QR Code

6.2.2 Generate QR code: Instructions on generating QR codes

The QR code for your asset has been generated and is ready for download. You can use the application to scan the code.

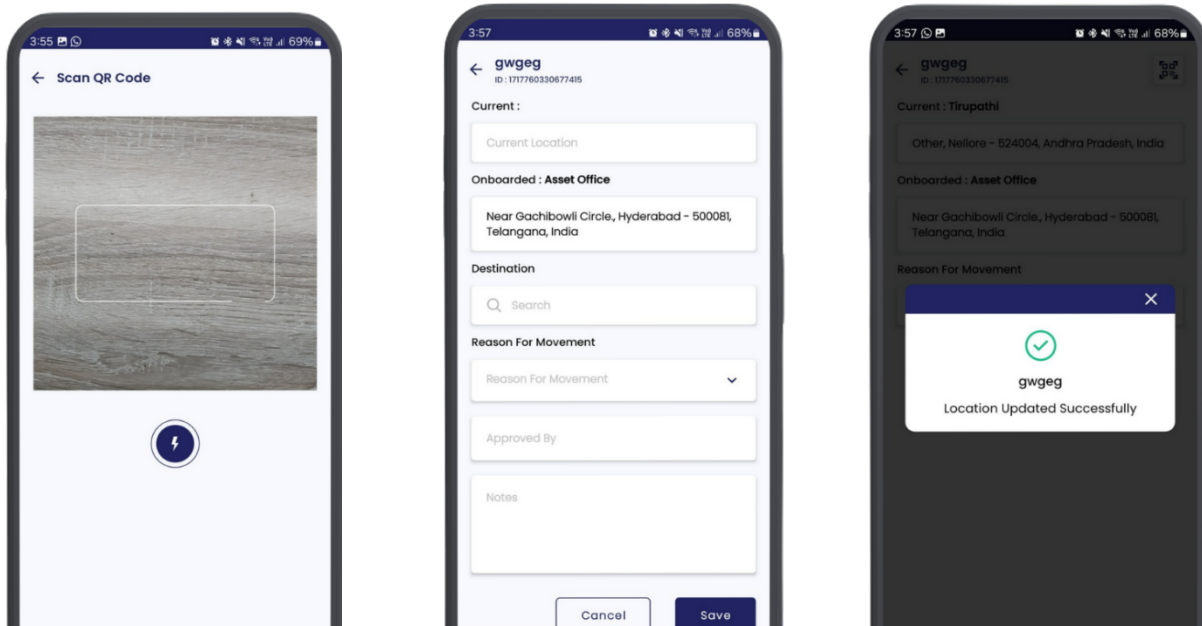
6.2.3. Mobile Application: Information regarding the mobile application

In the mobile application, users can register and log in using the same credentials as the web application. Once logged in, they have access to a QR code scanner, allowing them to easily track and update the delivery status of assets.



When a QR code is scanned, users can enter important details related to the asset's movement. Fields include:

- **Current Location:** The present location of the asset.
- **Onboarded At Location:** The origin location for the asset.
- **Destination:** The intended delivery location.
- **Reason for Movement:** A dropdown to specify the reason behind the asset's relocation.



- **Approved By:** The individual or authority granting approval for the asset's movement.
- **Notes:** A section for any additional remarks.

Reports > Asset Movement Report

11/1/2024 – 11/7/2024 New Deploy... MSI2-1718256... Generate Go Generate Jobstatus

Search by...

S.No	Asset Name	Asset Id	Reason For Movement	Current Location
1	MSI2	1718256501872911	New Deployment	N/A
2	MSI2	1718256501872911	New Deployment	Asset Office

Items per page: 6 1 – 2 of 2 |< < > >|

Powered By ATPL

Once all required fields are completed and submitted, the location is updated successfully in the system. The app also maintains a **Location History**, so if another location update is entered for the same QR code, a log of previous locations will be displayed, providing a complete tracking history of the asset's journey.