

## Technical Document for Asset Inventory Management

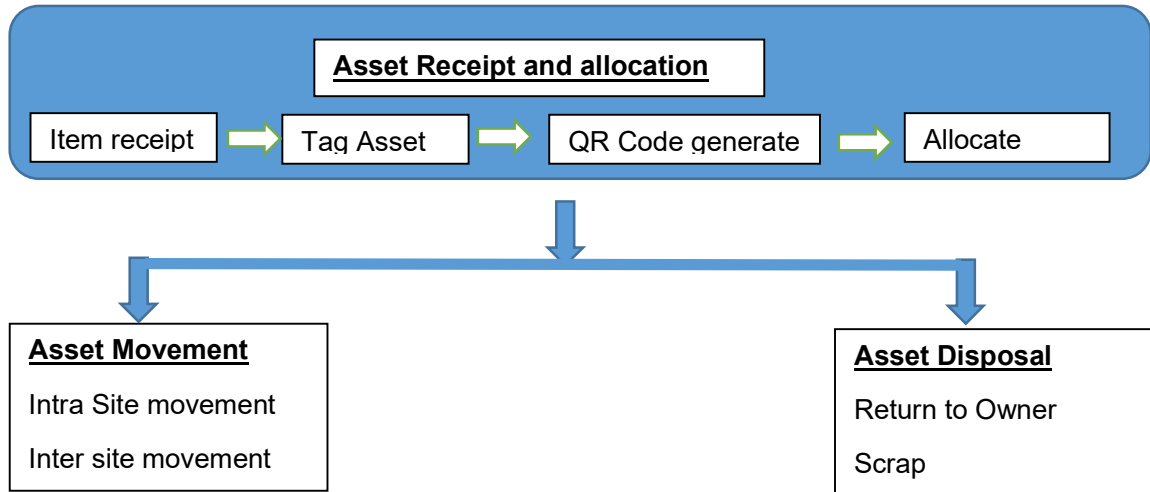
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## Introduction

Asset Based Inventory with some new requirements like Bundling of asset where in one part can be own and another could be rented.

## Overall Process flow



## Functional Process flow

Function	Screen Name
Create Asset Master (maker)	Asset Master
Approve creation of Asset Master (approver)	Asset Master Approval
QR Code generation	Generate QR Code
Populate Asset Description (maker)	Asset Description
Approve population of asset description (approver)	Description Approval
Allocate or otherwise known as Asset Movement	Asset Movement
Approval of the Asset Movement	Movement Approval
Asset Disposal (maker)	Asset Disposal
Approval of the disposal	Disposal Approval
Overall Report at any stage and with many filters	Report

## Technical process flow

### Asset Master

**Screen Description:** This screen is used to record the receipt of the Asset in the company concerned.

The screenshot shows the 'Asset Master' screen within an 'Asset Management' application. The interface includes a sidebar menu with options like 'Asset Master', 'Asset Master Approval', 'Asset Description', 'Asset Description Approval', 'Asset Movement', 'Asset Movement Approval', 'Asset Transfer', 'Asset Transfer Approval', and 'Report'. The main form area is titled 'Asset Master' and contains several input fields and dropdown menus. On the left side of the form, there are fields for 'Tag ID', 'Center', 'Asset Type', 'Classification Type', 'Asset Description', 'Model', and 'Serial Number'. On the right side, there are fields for 'New No. in Bundle', 'Sub Center', 'Classification Type', 'Manufacturer or Model', 'Company', 'Old Transfer Reference No.', and 'Serial Number in Bundle'. At the bottom of the form, there are four buttons: 'Save for Approval', 'Save Asset Data', 'Save as Draft', and 'Cancel'. The 'Asset Description' field has a 'Choose File' button next to it.

### Technical Process flow for Screen Asset Master

**Reference:** AssetMaster.aspx and AssetMaster.aspx.cs

The following is the process

- **Function Name:** createtable ().

This function is used to create the grid and temporary table for refresh the grid in case of Save and Reset. For this purpose, all the columns are taken from the Asset Master Table (and listed).

- **Function Name:** LoadDropDowns ():- getDataTablesForDropDowns (string type and string id) – This is Common Function To get Data from SP for Loading DropDowns.

**Stored Procedure Name:** SP\_All\_Dropdpwm\_bind\_Asset\_Master

**Table name:** COMAPNY\_MASTER, subcentremaster, centre\_master,  
AI\_Asset\_TypeCode, AI\_AssetSubTypeCode

**Description:** Loads the DropDown for Company, Centre, Status, Asset Type.

- **Function Name:** BindgridAll ()  
**Stored Procedure Name:** sp\_bindgrid

**Table name:** AI\_Asset\_Master

**Description:** This function is used for binding grid.

- **For Front end:**

- On select of centreid – drpcenter\_id\_selectedIndex changed () to get values of sub centre dropdown.
- **Stored Procedure Name:** SP\_All\_Dropdpwm\_bind\_Asset\_Master
- On select of Asset type - drpassettype\_selectindexchanged () to get values of sub asset type.
- **Stored Procedure Name:** SP\_All\_Dropdpwm\_bind\_Asset\_Master

- **Event Name:** btnsaveadd\_Click

**Description:** This is used only for bundled items to save and add each of the items in the bundle including the last item.

- **Function Name:** Val data ()

- 1.Val data (to check on mandatory fields being populated)
- 2.Save ()
- 3.Create table (to save in temporary table) and show in grid
- 4.Disable (false) – to enable and disable certain fields
- 5.Increment items in bundle
- 6.Chkbundled as true

- **Event Name:** btnSaveAsDraft\_Click

- 1.ValData () (validate mandatory fields)
- 2.Setnewbundleno ()
- 3.Getbundleunid () – to get next serial number
- 4.SaveData (string type, string isdraft, int sr\_no, int loopcount, int uniqueid, string bundlefirstserialnumber = "") using Sp\_all\_assetMaster\_insert (to save to asset master table) and to update the grid

- **Event Name:** btnReset – to reset

- **Event Name:** btnsendforapproval

- **Function Name:**

- 1.val data
- 2.saveData ()
- 3.getbundledunid ()
- 4.getDataTableFor dropdown
- 5.bindgridall ()

**Other important features**

- The save and add is applicable only for bundled items
- The Send for approval and Save as draft button will get enabled only after all the items in a bundle and saved (with save and add button) or for individual where save and add button would not be available.

## Asset Master Approval Request

**Screen Description:** This screen is used to provide Approval on the entries made in Asset Master.

Edit	Tag ID	Company Name	Centre Name	Sub Centre Name	Bundle	Item no in Bundle	Asset Name	Subasset Type Name	Ownership	Manufacturer or Make
	PAM101101010001-10101	Pamac Finserv Pvt Ltd	MUMBAI	Anttop Hill A-248 Office PCPV	NO	01	RC	Audio	Own	test1

### Technical Process flow for Screen Asset Master Approval

**Reference:** Approvalpagae.aspx and Approvalpagae.aspx.cs

The following is the process

- **Function Name:** BindGridAll () -

**Stored Procedure Name:** Sp\_AI\_Approval\_Page\_Gridbind

**Table name:** AI\_Asset\_Master.

**Description:** This function binds the Grid with data received from Asset Master for Approval.

- **Event Name:** GridPending\_RowCommand

**Description:**

This event is called on Edit Button Click inside the Grid which redirects to [Assest\\_master\\_details.aspx](#) page which displays the data for that record.

## Asset Master Approval Data

**Screen Description:** This Page displays the entry edited on Approvalpagae.aspx

The screenshot shows a web application interface for 'ASSET MANAGEMENT'. A sidebar on the left lists various functions: Asset Master, Asset Master Approval, Generate QR Code, Asset Description, Description Approval, Asset Movement, Movement Approval, Asset Disposal, Disposal Approval, and Report. The main content area is titled 'Asset Master' and contains a form with the following fields:

- Tag ID: PAM101101010001-0101
- Center: MUMBAI (dropdown)
- Asset Type: RC (dropdown)
- Ownership Type: Own (dropdown)
- Purchase Date: 10/05/2020
- Purchase Price: 5000
- Item No./in Bundle: 1
- SubCenter: Antop Hill A-248 Office PCPV (dropdown)
- SubAsset Type: Audio (dropdown)
- Manufacturer or Make: test1
- Company: Pamac Finserve Pvt Ltd (dropdown)
- Old Transfer Reference No: test1
- Asset Documents: Choose File (button), No file chosen
- Model: test1
- Generate QR: (checkbox)

At the bottom of the form are two buttons: 'Approve' (green) and 'Reject' (red). The footer of the page reads 'Copyright © Your Website 2020'.

**Reference:** Assest\_master\_details.aspx and Assest\_master\_details.aspx.cs

The following is the process

- **Function Name:** LoadDropDowns ():- getDataTablesForDropDowns (string type and string id) – This is Common Function To get Data from SP for Loading DropDowns.

**Stored Procedure Name:** SP\_All\_Dropdpwm\_bind\_Asset\_Master

**Table name:** COMAPNY\_MASTER, subcentremaster, centre\_master,  
AI\_Asset\_Typecode, AI\_AssetSubTypeCode

**Description:** Loads the DropDown for Company, Centre, Status, Asset type.

- **Function Name:** getdata ():-

**Stored Procedure Name:** Sp\_AI\_Approval\_Page\_Gridbind

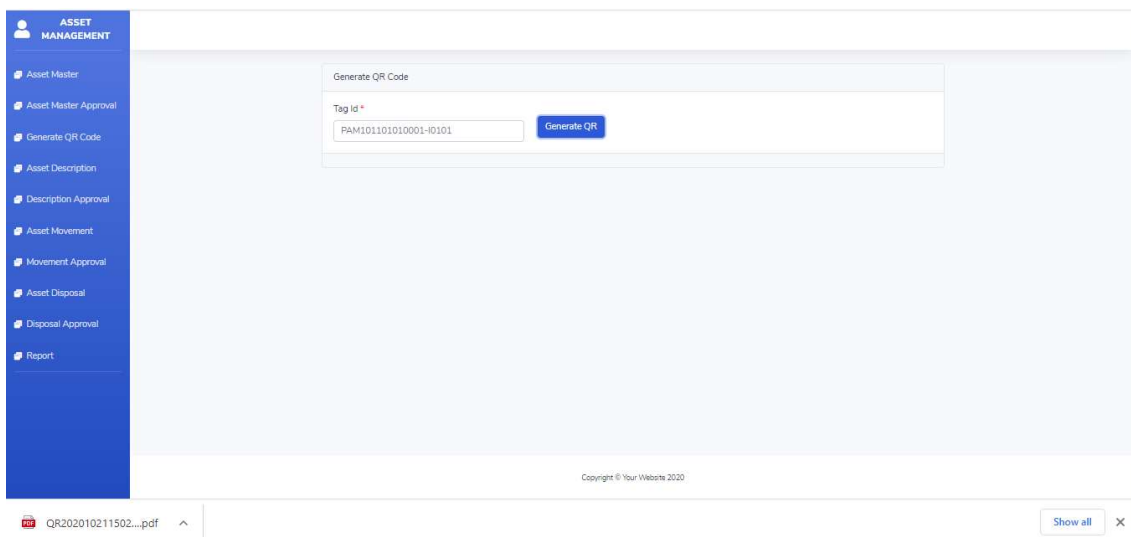
**Table name:** AI\_Asset\_Master

**Description:** This function is used to get all information related to this tag id to fill all the controls on the Page.

- **Event Name:** btnrejected\_Click  
**Stored Procedure Name:** sp\_AI\_Asset\_Master\_insert.  
**Description:** This event is used to Reject the record.
- **Event Name:** btnApproved\_Click  
**Stored Procedure Name:** sp\_AI\_Asset\_Master\_insert  
**Description:** This event is used to Approve the record.

## Generate QR Code

**Screen Description:** This function is used to generate QR for the Tag ID entered by the user.



## Technical Process flow for Screen Generate QR Code

**Reference:** QR\_CODE\_GENERT.aspx and QR\_CODE\_GENERT.aspx.cs

The following is the process

- **Event Name:** btngenerated\_Click  
**Stored Procedure Name:** Sp\_AI\_QR\_image.  
**Table name:** AI\_QR\_Code  
**Description:** This event is used to check whether the Tag ID exists which is entered by the user and then generates QR Code.
- **Function Name:** Generateqrcode(dtstring).  
**Description:** This function is used to generate the QR image.
- **Function Name:** WriteImageToPDF (string imagepath)  
**Description:** This function is used to generate pdf file using iText Sharp.

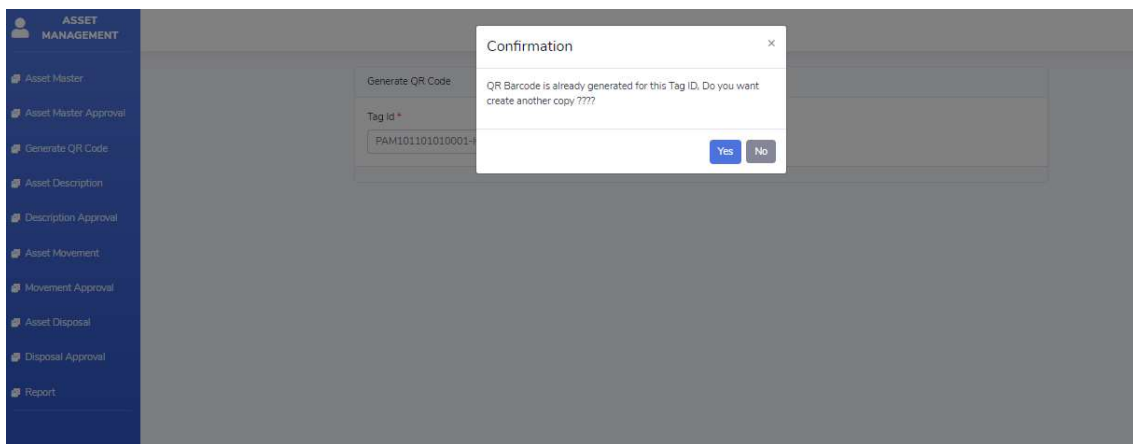
- **Function Name:** GetData ()

**Stored Procedure Name:** Sp\_AI\_QR\_iamge and

**Table name:-**AI\_QR\_Code

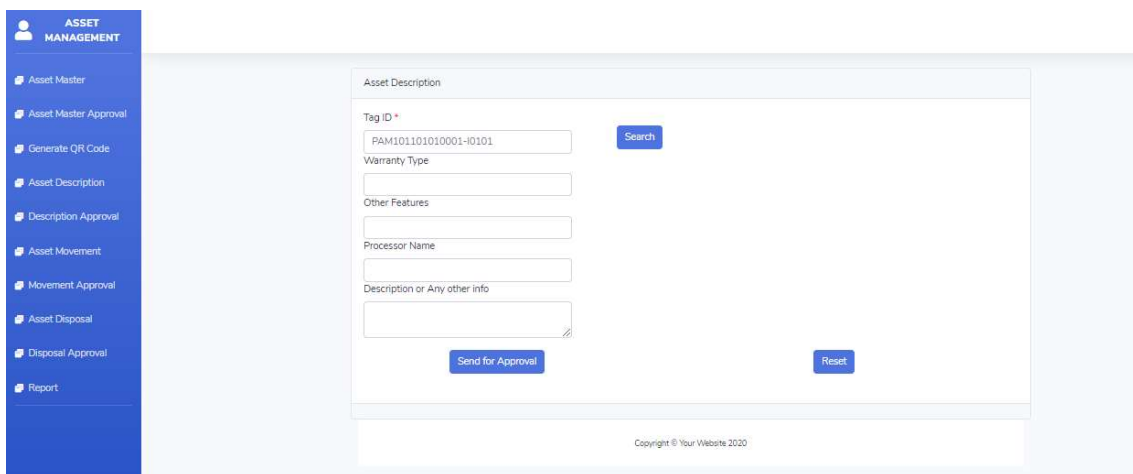
- **Function Name:** GetOldQR (string pdffilename)

**Description:** This function is used to check whether QR is already generated for the Tag ID entered by the user. If YES, it asks whether user wants to generate the QR again on the Popup.



## Asset Description

**Screen Description:** This screen is to provide extra information for the Asset based on Tag ID.



## Technical Process flow for Asset Description

**Reference:** AssetDescription.aspx And AssetDescription.aspx..cs

The following is the process



- **Event Name:** btnserach\_Click

**Stored Procedure Name:** sp\_AI\_assest\_description\_insert

**Description:** This event is used to search whether the tag id is available in Asset Description Table. If YES, then it loads the data for all the controls on the Page. If No, then **save/edit** button is visible.

- **Event Name:** btnsaveadd\_Click:

**Description:** This event is used to save the record in the table.

- **Function Name:** save (string type)

**Stored Procedure Name:** sp\_AI\_assest\_description\_insert

**Table name:** AI\_AssetDescription

**Description:** This function is used to insert the data in the table.

- **Event Name:** btnreset\_Click

- **Function Name:** reset ()

**Description:** This function is used to reset all the controls on the Page

- **Event Name:** btnsendforapproval\_Click

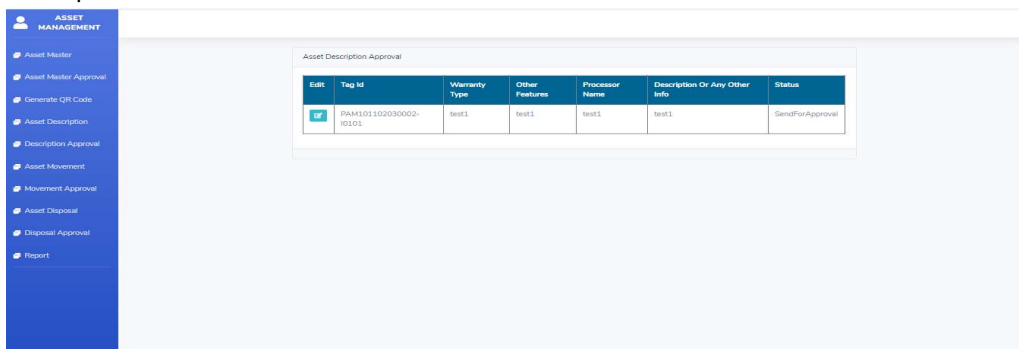
**Stored Procedure Name:** sp\_AI\_assest\_description\_insert

**Table Name:** AI\_AssetDescription

**Description:** This event is used to Request for Approval.

## Asset Description Approval Request

**Screen Description:** This screen is used to provide Approval on the entries made in Asset Description.



## Technical Process flow for Asset Description Approval

**Reference:** Assetapprovalrqst.aspx And Assetapprovalrqst.aspx.cs

The following is the process:

- **Function Name:** BindGridAll ().  
**Stored Procedure Name:** sp\_AI\_AssetDescription\_Approval  
**Table name:** AI\_AssetDescription  
**Description:** This function used only bind grid with those records that are sent for approval.
- **Event Name:** GridPending\_RowCommand  
**Description:** This event is called when clicked on grid edit button, after clicking edit button it redirects to AssetDescriptionapproval.aspx page

## Asset Description Approval Data

**Screen Description:**

This Page Displays the entry edited on Assetapprovalrqst.aspx

**Reference:** AssetDescriptionapproval.aspx And AssetDescriptionapproval.aspx.cs

The following is the process

- **Function Name:** getdata ()  
**Stored Procedure Name:** sp\_AI\_AssetDescription\_Approval  
**Table name:** AI\_AssetDescription

**Description:** This function is used to get all information related to this tag id put on all the field.

- **Event Name:** btnrejected\_Click

**Stored Procedure Name:** sp\_AI\_AssetDescription\_Approval

**Description:** This event only used to reject the record.

- **Event Name:** btnapproved\_Click

**Stored Procedure Name:** sp\_AI\_AssetDescription\_Approval

**Description:** This is event only used to approve the record.

## Asset Movement

**Screen Description:** This Page is to provide Transfer of Assets within the same Center.

The screenshot displays the 'Asset Movement' web application. On the left is a blue sidebar menu titled 'ASSET MANAGEMENT' with icons and labels for: Asset Master, Asset Master Approval, Generate QR Code, Asset Description, Description Approval, Asset Movement, Movement Approval, Asset Disposal, Disposal Approval, and Report. The main content area has a light blue header 'Asset Movement'. Below it is a form with a 'Tag ID \*' label, a text input field, and a 'Search' button. At the bottom of the form are two buttons: 'Send for Approval' and 'Reset'. A small copyright notice 'Copyright © Your Website 2020' is visible at the bottom right of the page.

### Technical Process flow for Asset Movement

**Reference:** AssetMovement.aspx And AssetMovement.aspx.cs

The following is the process:

- **Event Name:** btnsearch\_Click

**Stored Procedure Name:** SP\_AI\_Asset\_Movement

**Table Name:** AI\_Asset\_Movement

**Description:** This event is used to check whether the Tag id exists in Asset master table and Asset Movement Table. if Yes then data loads on the Page.

(for example:- center name, sub center name, asset type etc)

The screenshot displays the 'ASSET MANAGEMENT' web application. On the left is a blue sidebar with a menu containing: Asset Master, Asset Master Approval, Generate QR Code, Asset Description, Description Approval, Asset Movement, Movement Approval, Asset Disposal, Disposal Approval, and Report. The main content area is titled 'Asset Movement' and contains a form with the following fields and controls:

- Tag ID \***: Text input with value 'PAM101102030002-I0101' and a **Search** button.
- Center Name**: Text input with value 'MUMBAI'.
- Asset name**: Text input with value 'CB'.
- Employee Code \***: Dropdown menu with '--Select--'.
- Transfer Date \***: Text input.
- Company Name**: Text input with value 'Pamac Finserve Pvt Ltd'.
- Subcenter Name**: Text input with value 'Antop Hill C-342 Office Recon'.
- SubAsset Name**: Text input with value 'Metal'.
- Employee Name**: Text input.
- Buttons**: 'Send for Approval' and 'Reset'.

At the bottom of the page, there is a copyright notice: 'Copyright © Your Website 2020'.

- **Function Name:** Bindall ()  
**Stored Procedure Name:** SP\_AI\_Asset\_Movement And  
**Table Name-:** employee Master  
**Description:** This function is used to bind the employee code dropdown.
- **Event Name:** btnrest\_Click  
**Description:** This event is used to reset all the controls on the Page
- **Function Name:** reset ()  
**Description:** This function is used to reset all the controls on the Page
- **Event Name:** btnsaveanddraft\_Click  
**Description:** This event is used to request Approval.
- **Function Name:** save("Insert").  
**Stored Procedure Name:** SP\_AI\_Asset\_Movement  
**Table Name:** AI\_Asset\_Movement  
**Description:** This function is used to save the record in AI\_Asset\_Movement table.

## Asset Movement Approval Request

**Screen Description:** This screen is used to provide Approval on the entries made in Asset Movement.

Edit	Tag_Id	Centre Name	Sub Centre Name	Asset Name	Sub Asset Name	Company Name	Employee Name	Employee Code	Transfer Date
	PAM101102030002-J0101	MUMBAI	Antop Hill C-342 Office Recon	CB	Metal	Pamac: Finserve Pvt Ltd	ZAKIRALI AZADALI HUSSAIN	P-52885	05-10-2020 00:00:00

### Technical Process flow for Asset Movement Approval

**Reference:** AssetMovementApproval.aspx And AssetMovementApproval.aspx.cs

The following is the process:

- **Function Name:** BindGridAll ().

**Stored Procedure Name:** sp\_AI\_Asset\_Movement\_approval

**Table name:** AI\_Asset\_Movement

**Description:** This function is used to Bind Grid with records for transfer approval.

- **Event Name:** GridPending\_RowCommand

**Description:** This event is called when clicked on grid edit button after clicking edit button, it redirects to AssentMovementApprovaldeatils.aspx page

### Asset Movement Approval Data

**Screen Description:**

This Page Displays the entry edited on AssetMovementApproval.aspx

The screenshot displays the 'Asset Movement' approval interface. On the left is a blue sidebar with a menu containing: ASSET MANAGEMENT, Asset Master, Asset Master Approval, Generate QR Code, Asset Description, Description Approval, Asset Movement (highlighted), Movement Approval, Asset Disposal, Disposal Approval, and Report. The main content area shows a form titled 'Asset Movement' with the following fields:

- Tag ID: PAM101102030002-I0101
- Center Name: MUMBAI
- Asset name: CB
- Company Name: Pamac Finserve Pvt Ltd
- Subcenter Name: Antop Hill C-342 Office Recon
- SubAsset Name: Metal
- Employee Code: P-52885 (dropdown menu)
- Employee Name: ZAKIRALI AZADALI HUSSAIN
- Transfer Date: 10/05/2020

At the bottom of the form are two buttons: 'Approve' (green) and 'Rejected' (red).

**Reference:** [AssentMovementApprovaldeatils.aspx](#) and [AssentMovementApprovaldeatils.aspx.cs](#)

The following is the process

- **Function Name:** `getdata ()`

**Stored Procedure Name:** `sp_AI_Asset_Movement_approval`

**Table name:** `AI_Asset_Movement`

**Description:** This function is used to get all information related to this tag id put on all the field.

- **Function Name:** `Bindall ()`

**Stored Procedure Name:** `sp_AI_Asset_Movement_approval` And

**Table Name:** `employee Master`

**Description:** This function is used to bind the drop down of employee code.

- **Event Name:** `btnrejected_Click`

**Stored Procedure Name:** `sp_AI_Asset_Movement_approval`

**Description:** This event is used to reject the record.

- **Event Name:** `btnapproved_Click`

**Stored Procedure Name:** `sp_AI_Asset_Movement_approval`

**Description:** This is event is used to approve the record.

## Asset Disposal

**Screen Description:** This page is used to dispose the asset for the tag id entered by the user.

The screenshot shows the 'ASSET MANAGEMENT' sidebar on the left with options: Asset Master, Asset Master Approval, Generate QR Code, Asset Description, Description Approval, Asset Movement, Movement Approval, Asset Disposal, Disposal Approval, and Report. The main content area is titled 'Asset Disposal' and contains a form with a 'Tag ID \*' input field, a 'Search' button, and two buttons at the bottom: 'Send for Approval' and 'Reset'. A copyright notice 'Copyright © Your Website 2020' is visible at the bottom right.

**Reference:** Asset\_DisposalApproval\_Deatils.aspx

And Asset\_DisposalApproval\_Deatils.aspx.cs

The following is the process

- **Event Name:** btnsearch\_Click

**Stored Procedure Name:** sp\_AI\_Asset\_Disposal

**Table Name:** AI\_Disposal\_Details

**Description:** This event is used to search Tag ID from the table and fill the controls on the Page.

(for example:- center name, sub center name, asset type etc)

The screenshot shows the 'ASSET MANAGEMENT' sidebar on the left. The main content area is titled 'Asset Disposal' and contains a detailed form. The form has two columns of fields. The left column includes: 'Tag ID \*' (with value 'PAM101101010001-10101'), 'Center Name' (with value 'MUMBAI'), 'Asset name' (with value 'RC'), 'Ownership Type' (with value 'Own'), 'Status\*' (with value 'Scrap'), and a dropdown menu. The right column includes: 'Company Name' (with value 'Pamac Finserve Pvt.Ltd'), 'Subcenter Name' (with value 'Antop Hill A-248 Office PCPV'), 'SubAssesst Name' (with value 'Audio'), 'Scrap and Return Date \*' (with value '05/10/2020'), and 'Return or Scrap' (with value 'Scrap'). At the bottom of the form are two buttons: 'Send for Approval' and 'Reset'. A copyright notice 'Copyright © Your Website 2020' is visible at the bottom right.

- **Event Name:** btnrest\_Click  
**Description:** This function is used to reset all the controls on the Page.
- **Function Name:** reset ()  
**Description:** This function is used to reset all the controls on the Page.
- **Event Name:** btnsendforapproval\_Click  
**Description:** This event is used for Request for Approval.
- **Function Name:** save("Insertupdate").

**Stored Procedure Name** - sp\_AI\_Asset\_Disposal

**Table Name:** AI\_Disposal\_Details

**Description:** This function is used to save the record in AI\_Disposal\_Details table

## Asset Disposal Approval Request

**Screen Description:** This screen is used to provide Approval on the entries made in Asset Disposal.

Edit	Tag_ID	CENTRE Name	Sub Centre Name	Company Name	Asset Name	Sub Asset Name	Ownership name	Return or Scrap	Scrap And Return Date	Status
	PAM101101010001-I0101	MUMBAI	Antop Hill A-248 Office PCPV	Pamac Preserve Pvt Ltd	RC	Audio	Own	Scrap	05-10-2020 00:00:00	Scrap

## Technical Process flow for Asset Disposal Approval

**Reference:** AssetDisposalApproval.aspx And AssetDisposalApproval.aspx.cs

The following is the process:

- **Function Name:** BindGridAll ().  
**Stored Procedure Name:** SP\_AI\_Asset\_Disposal\_Approval  
**Table name:** AI\_Disposal\_Details  
**Description:** This function is used to bind Grid for those record whose status is Scrap/Return/Transfer to Another Center.



- **Event Name:** GridPending\_RowCommand

**Description:** This event is called when clicked on grid edit button after clicking edit button it redirects to Asset\_DisposalApproval\_Deatils.aspx page

## Asset Disposal Approval Data

### Screen Description:

This Page Displays the entry edited on AssetDisposalApproval.aspx

### Reference:

Asset\_DisposalApproval\_Deatils.aspx And Asset\_DisposalApproval\_Deatils.aspx.cs

### The following is the process

- **Function Name:** getdata ()

**Stored Procedure Name:** SP\_AI\_Asset\_Disposal\_Approval

**Table name:** AI\_Disposal\_Details

**Description:** This function is used to get all information related to this tag id put on all the field.

- **Event Name:** btnrejected\_Click

**Stored Procedure Name:** SP\_AI\_Asset\_Disposal\_Approval

**Description:** This event is used to reject the record.

- **Event Name:** btnapproved\_Click

**Stored Procedure Name:** SP\_AI\_Asset\_Disposal\_Approval

**Description:** This is event is used to approve the record.

## Asset Master Report

### Screen Description:

This screen is used to display the Report based on the data filled by the user.

Sr No.	Tag ID	Center Name	Sub Centre Name	Company Name	Asset Name	Sub Asset Name	Bundled	Item No In Bundle	Ownership Type	Manufacturer or Make	Res
1	PAM101101010001-10101	MUMBAI	Antop Hill A-248 Office PCPV	Pamac Finserve Pvt Ltd	RC	Audio	NO	01	Own	test1	
2	PAM101102030002-10101	MUMBAI	Antop Hill C-342 Office Recon	Pamac Finserve Pvt Ltd	CB	Metal	NO	01	Own	tesgt	

### Technical Process flow for Asset Master Report

**Reference:** AssestReport.aspx And AssestReport.aspx.cs

The following is the process:

- **Function Name:** LoadDropDowns ():- getDataTablesForDropDowns (string type and string id) – This is Common Function To get Data from SP for Loading DropDowns.

**Stored Procedure Name:** SP\_All\_Dropdpwm\_bind\_Asset\_Master

**Table name:** COMAPNY\_MASTER, subcentremaster, centre\_master, AI\_Asset\_Typecode, AI\_AssetSubTypeCode

**Description:** Loads the DropDown for Company, Centre, Status, Asset type.

- **Function Name:** BindListBox ().  
**Stored Procedure Name** - SP\_AI\_listbox\_bind  
**Table name** -AI\_listbox\_bind  
**Description:** This function is used to bind listbox.

- **Event Name:** btnexport\_Click

**Stored Procedure Name:** This Event is used to export the excel file.

- **Function Name:** Generate\_ExcelFile ()

**Description:** This Function is used to generate excel file.

- **Event Name:** btnReset\_Click:

**Description:** This event is used to reset all the controls on the Page.

- **Event Name:** btnsearch\_Click

**Description:** This event is used to fetch the data based on Selections by the user.

\*\*\*\*\*