

[DATAMINER EMPOWER 2025



a LCA \longrightarrow with DOM



DATAMINER EMPOWER 2025

[YOUR TRAINER THIS SESSION

Principal DevOps Engineer



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Agenda

- 1. Status system introduction
- 2. Deploying the model
 - 1. Quick look at the code
- 3. Hands-on: Build the LCA from scratch





Status system introduction

Make you DOM model state aware



Status system

Statuses

 Allows you to assign a state to a DOM instance, transition between these states and put conditions on whether fields should be required, read-only, hidden etc. for each state.



Status system

Transitions

 Allows you to assign a state to a DOM instance, transition between these states and put conditions on whether fields should be required, read-only, hidden etc. for each state.







Buttons and actions

- Buttons can be configured on the Behavior Definition, so they show up on the DOM form.
- Every button is linked to one **DOM action**, currently always a **DataMiner automation script**.
- Often used to facilitate the transitions.

VIH_2-AMQ-112_8	public class Script
License Plate ^① 2-AMQ-112	[AutomationEntryPoint(AutomationEntryPointType.Types.OnDomAction)] O references O changes O authors, O changes public void OnDomActionMethod(IEngine engine, ExecuteScriptDomActionContext context)
	i i ven denTreteneeTd – eenteut CenteutId ee DenTreteneeTde
Belgium	var dominstanceid = context.Contextid as Dominstanceid;
Capabilities O	s
HD	engine EvitEpil("The action was not triggered in the context of a DOM instance ").
Size O	return.
Medium	3
Number Of Cameras 🔍	
8	<pre>var helper = new DomHelper(engine.SendSLNetMessages, domInstanceId.ModuleId);</pre>
To In Use To Maintenance	<pre>helper.DomInstances.DoStatusTransition(domInstanceId, "a_to_b"); }</pre>



Deploying the model

Make you DOM model state aware



DOM Module Setup

Deploy the catalog package

- 1. Go to catalog.dataminer.services
- 2. Search for "DOM Vehicles Demo"
- 3. Deploy this package to your DaaS







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DOM Module Setup

Reference app

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目 ADD VEHICLE 心 REFRESH						
Acti つ						
License Plate 🗸 🗸	LICENSE PLATE	LOCATION	STATE	SIZE	NUMBER OF CAMERAS	
Filter	YN-82EV []	Australia	In Use	Large	30	
	IK22-BQ 김	Australia	Available	Extra Large	10	
Location \checkmark	BJD-6333 [기	USA	Maintenance	Extra Large	32	
no lo and no up	KMD-6558 []	USA	Available	Small	4	
Australia	HD03-MGX [김	UK	In Use	Medium	16	
USA	2-TMA-654 []	Belgium	In Use	Extra Large	40	
Belgium	2-AMQ-112 []	Belgium	Available	Medium	8	
Finland	CGI-964 []	Finland	Maintenance	Medium	6	

DOM Module Setup

Deploy package code

dataminer All

40 r	eferences 0 changes 0 authors, 0 changes
թսե	olic class VehicleDomModelConstants
{	
	<pre>3 references 0 changes 0 authors, 0 changes public static string ModuleId { get; } = "empower_vehicle_demo";</pre>
	<pre>2 references 0 changes 0 authors, 0 changes public static DomDefinitionId DomDefinitionId { get; } = new DomDefinitionId(Guid.Parse("eb7c180f-bb6b-4816-a450-dbced2eed144"));</pre>
	<pre>11 references 0 changes 0 authors, 0 changes public static SectionDefinitionID SectionDefinitionId { get; } = new SectionDefinitionID(Guid.Parse("a451c946-2bf4-46c0-b6f0-9bef5f064bd5"));</pre>
	<pre>/// <summary> /// Describes the license plate of the vehicle. /// Type: String value /// </summary> 7 references 0 changes 0 authors, 0 changes public static FieldDescriptorID LicensePlateFieldDescriptorId { get; } = new FieldDescriptorID(Guid.Parse("23e7a506-d63a-4851-af2d-7e42d326f322"));</pre>
	<pre>/// <summary> /// Describes the location of the vehicle. /// Type: Single value int enum /// </summary> 6 references 0 changes 0 authors, 0 changes public static FieldDescriptorID LocationDescriptorId { get; } = new FieldDescriptorID(Guid.Parse("f4e34c3a-3ce2-4caf-9fa7-d4e3af8fae70"));</pre>
	2 references 0 changes 0 authors, 0 changes

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Hands-on Build the LCA from scratch



Main page basics

- Create a new LCA (name, icon,...)
- Add a table component
- Add a query filter component
- Create a new GQI query to retrieve our vehicle DOM instances
- Feed the GQI query to the query filter and the query filter output to the table
- Add a 'ADD VEHICLE' button to the header (leave empty for now)
- Add a 'REFRESH' **button** to the header
 - Let it **trigger** the 'Fetch the data' **component action** on the table



'Create DOM instance' panel

- Create a new panel 'Add vehicle'
- Add the **form component** to the panel
 - Feed the 'Vehicle' DOM definition
- Add a 'SAVE' header bar **button** and link actions:
 - Execute component action > Form, Save current changes
 - Close a panel > This panel
 - Execute component action > Table, Fetch the data
- Add a 'DISCARD' header bar **button** and link action:
 - Close a panel > This panel
- On the main page, add the 'Open panel' action to the 'ADD VEHICLE' button

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'View/edit/delete DOM instance' panel

- Create a new panel 'Edit vehicle'
- Add the form component to the panel
 - Feed the 'Selected rows > Object manager instances' from the table component
- Add a 'SAVE' header bar **button** and link actions:
 - Execute component action > Form, Save current changes
 - Close a panel > This panel
 - Execute component action > Table, Fetch the data
- Add a 'DELETE' header bar **button** and link action:
 - Execute component action > Form, Delete instance
 - Close a panel > This panel
 - Execute component action > Table, Fetch the data
- Add an empty header bar **button** with 'X' icon and 'Close a panel' action

'View/edit DOM instance' panel

- Edit the table settings > actions
 - Configure the 'On double click' **action** with the 'Open a panel' option



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Hands-on

Spice things up

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- Add conditional coloring on the 'State' column
- Add conditional coloring on the 'Number Of Cameras' column

- Add **stepper component** to the view/edit panel
- Create a table template with an icon to edit the vehicle
- Extend the table template to display the license plate like a real one
- Add **counters** that display the amount of vehicles

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[Your opinion matters]

Feedback



Don't forget to grab your present on the way out!







