



HCL Domino Volt

# HCL Domino Volt Step by Step Tutorial

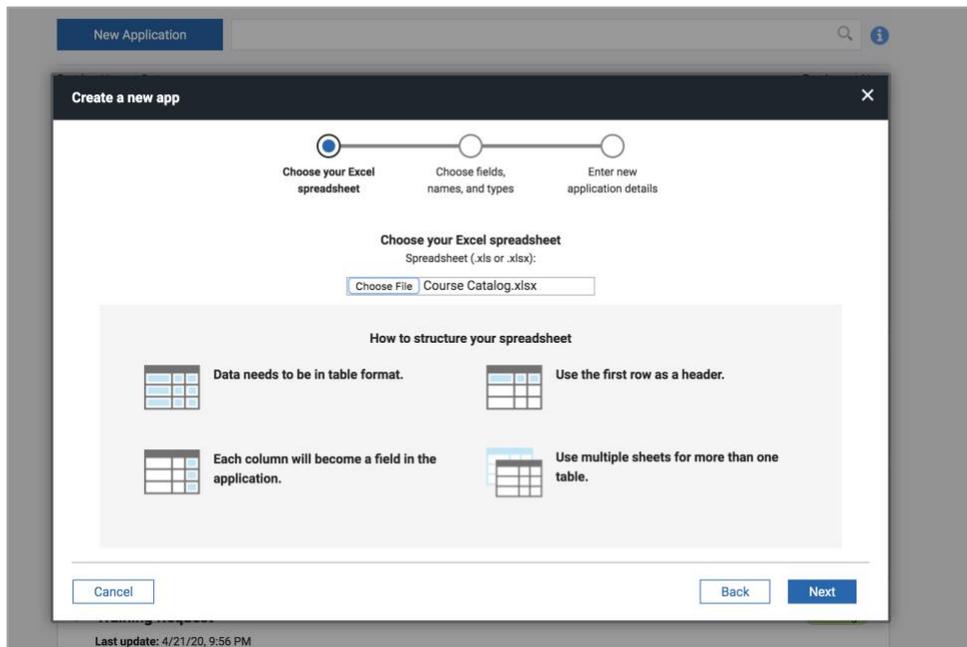
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## Table of Contents

<i>Create the course catalog app from a spreadsheet.....</i>	<i>3</i>
<i>Create the Request application.....</i>	<i>3</i>
Add image and title to the page.....	5
Add fields for Name and Email.....	6
Add dropdown to select a course .....	6
Populate the dropdown with a service call to the course catalog.....	6
Style your app.....	8
Add a Section and fields for selected course information .....	9
Add a Rule to show Travel Authorization Number field .....	11
Add service to retrieve selected course information .....	11
Add manager summary page .....	13
<i>Add workflow to the app .....</i>	<i>15</i>
Add notifications .....	15
Set access rights and privileges for workflow stages .....	16
Set Stage visibility rules .....	17
<i>Save, deploy and test the app.....</i>	<i>17</i>
<i>Update the app so that it keeps track of course registration levels .....</i>	<i>19</i>
Add formula to calculate Seats Left and Update Registration.....	19
Add Number Registered field to the Course Catalog.....	19
Update the Retrieve Service to return Capacity and Number Registered.....	20
Add a Service to Update the Number Registered in the Catalog.....	21
Text and rules to let the users know how many seats are left and if the class is full.....	22
Hide the Registration Info – Hidden section .....	22
<i>Save, Deploy and test the app .....</i>	<i>23</i>
<i>Use a Table for Course Selection.....</i>	<i>24</i>
Populate the Table with a Service.....	25
Retrieving the selected course from the Table selection .....	26
<i>Save and Preview the App.....</i>	<i>27</i>

## Create the course catalog app from a spreadsheet

- Create a [New Application / From Spreadsheet](#) using *coursecatalog.xlsx*. Accept all the defaults.



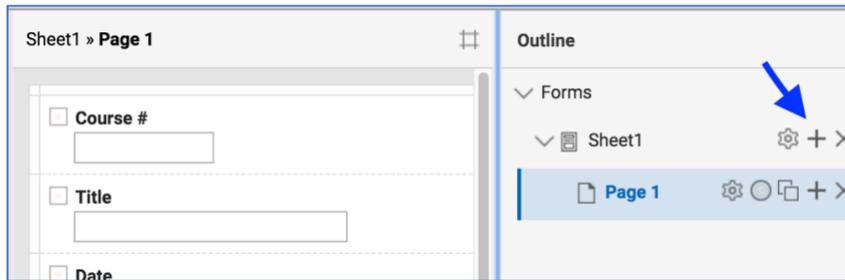
- From the Manage page, click on [View Responses](#) for viewing the imported spreadsheet data.
- Customize the view by showing the form in right hand panel. Scroll down and select [View form in the right panel](#) in [Application viewing options](#).
- View records by clicking in them.

Course #	Title	Date	Time	Cost	Location	Instructor
1	Security Training	4/18/2020	9:00 AM	\$2,000.00	Chicago	Sylvia Woods
2	New Hire Orientati...	5/23/2020	8:30 AM	\$3,000.00	Boston	Mary Jones
3	Leadership	5/12/2020	8:30 AM	\$5,000.00	Boston	Ted Monson
4	Advanced Domino...	4/26/2020	9:00 AM	\$1,000.00	New York	Marty Lechleider
5	Intro to Domino	5/26/2020	8:30 AM	\$3,000.00	Chicago	Mary Jones
6	JavaScript Basics	7/14/2020	9:00 AM	\$2,000.00	New York	Ted Monson
7	JavaScript Advanc...	8/1/2020	9:00 AM	\$1,500.00	Boston	Marty Lechleider
8	Node.JS	8/15/2020	9:00 AM	\$1,000.00	Miami	Sylvia Woods
9	Styling with CSS	9/14/2020	8:30 AM	\$2,000.00	Raleigh	Marty Lechleider

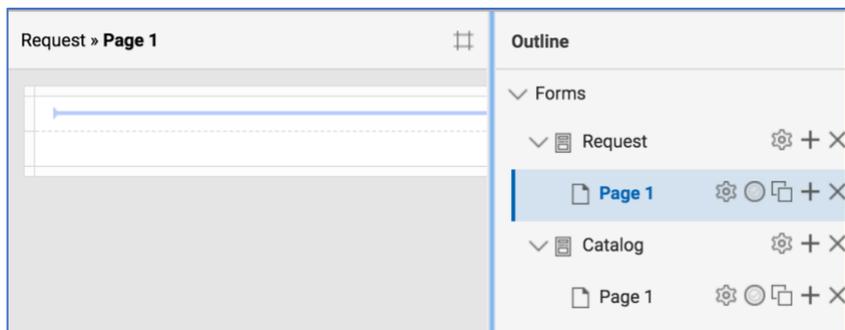
## Create the Request application

- Switch back to Manage page and edit the new Course Catalog app.

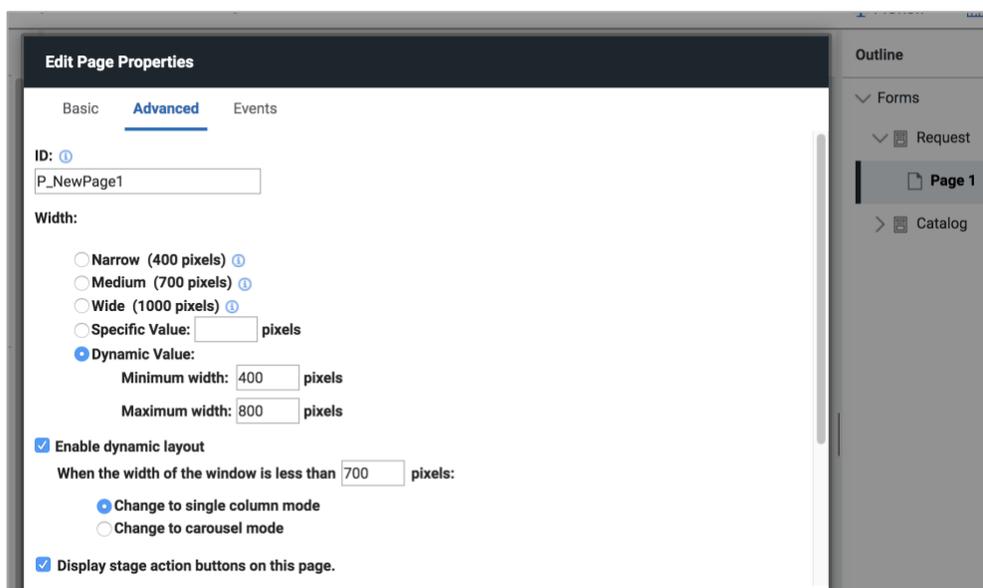
- Add a new Form by clicking on the + in the application outline.



- Name the new form 'Request' and accept Default Layout.
- Rename Sheet1 to 'Catalog' by clicking Sheet1 text.
- Drag and drop Request so it is before Catalog.

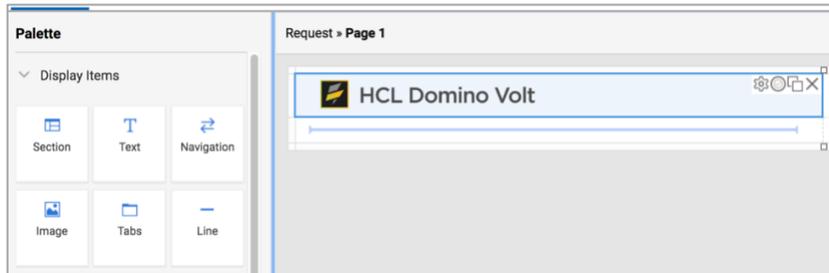


- Under Request / Page 1 click on the properties icon ⚙️ select the Advanced tab.
- You will see that the width has been set to a dynamic range of 400 to 800 by default with a breakpoint of 700 to collapse the form to a single column.

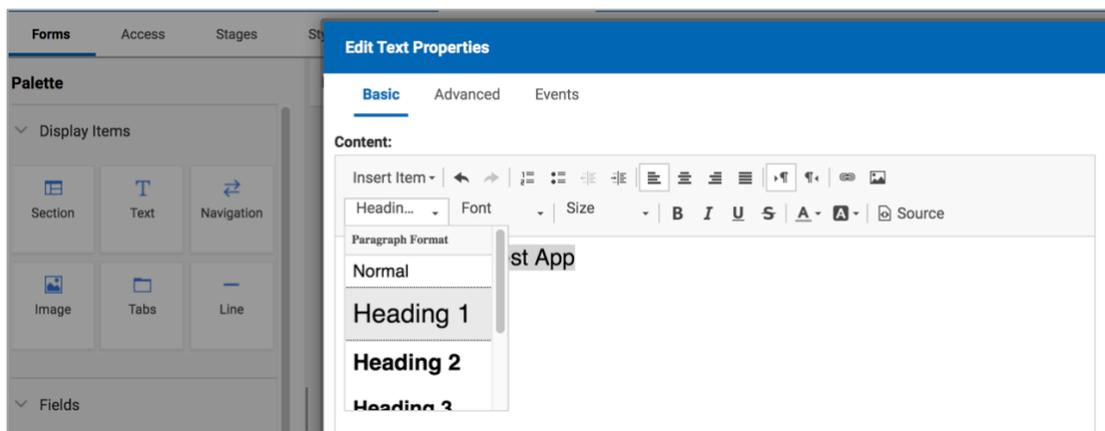


## Add image and title to the page

- Add an Image from the Display Items palette to the top of Page 1 in the Request form.
- In the Image properties select Add file and use this URL:  
https://leapsandbox.hclnp.com/VoltFiles/HCL\_Domino\_Volt.svg
- Size the height to 30.



- Add Text from the palette below the Image.
- Enter 'Training Request App'.
- Highlight the text entered and set the style to Heading 1

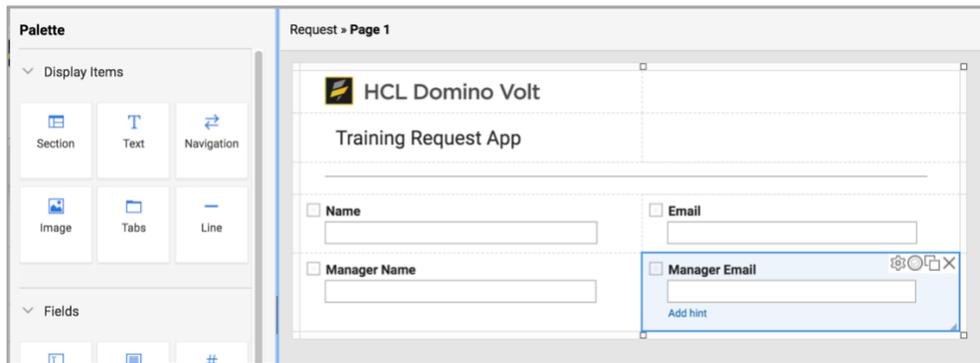


- Add a Line from the Display Items palette and place it below the Text.
- Drag the lower right-hand corner across columns so that it spans the width of the page.
- Grab the column handle at the top of the page and set the columns to a similar width of roughly 350 pixels.



### Add fields for Name and Email

- Add Single Line Entry field from the Fields palette and name it 'Name'.
- Edit the properties ⚙️ for Name and set the width to full.
- Click the Duplicate icon 📄 on Name.
- Rename the new field to 'Manager Name'.
- Add Email field from the Fields palette to the right of Name.
- Edit the properties ⚙️ for Email and set the width to full.
- Click the Duplicate icon 📄 on Email.
- Rename the new field to 'Manager Email'.



### Add dropdown to select a course

- Add a Drop Down field from the palette. Name it 'Select a Course'.

### Populate the dropdown with a service call to the course catalog

- Edit the dropdown properties ⚙️ and under Options click on Edit.
- Select Use a Service.
- Click Add/Edit Service Configuration.
- Select Or, Select a Service
- Click on Course Catalog / Sheet1 / Search service under Current Application.

**Service Configuration**

1. **Service**
2. Inputs
3. Outputs
4. Details

Creating a Service Configuration requires that you provide a URL or select a service, then create input and output maps to move data between the form and the target service.

Enter a URL

Or, select a service

**Selected Service:** ✔ *course catalog / Sheet1 / Search*

**Service Catalog:** Current Application ▼

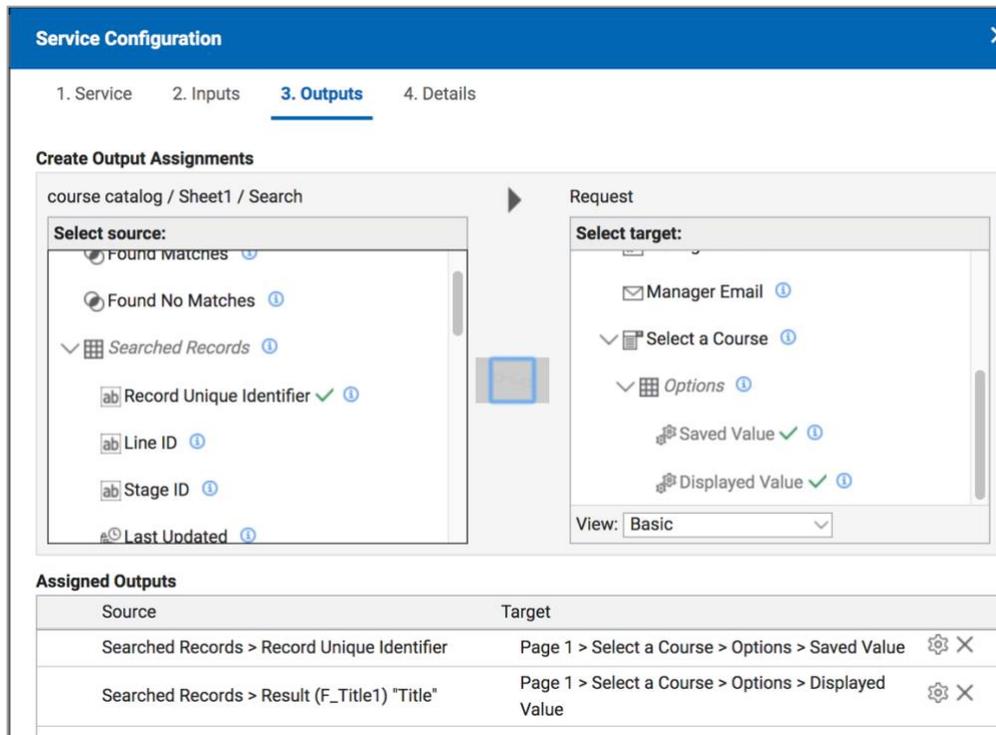
🔍
Clear

Include service description in the search

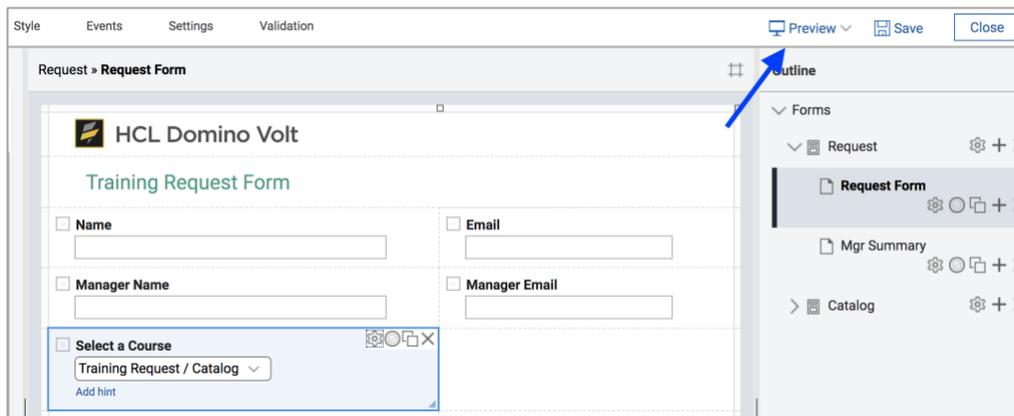
i
Current application and document services will not appear until the application is saved.
Display: ☰

course catalog / Sheet1 / Delete
course catalog / Sheet1 / Retrieve
course catalog / Sheet1 / Search
course catalog / Sheet1 / Submit (S_Submit) / Create
course catalog / Sheet1 / Submitted / Update (S_Update) / Update

- Click on 3. Outputs.
- Map Searched Records / Record Unique Identifier to the Select a Course / Options / Saved Value. Do this by highlighting the two fields and clicking on the connector icon  in the middle.
- Map Searched Records / Title to the Select a Course / Options / Displayed Value.
- Click OK when finished.



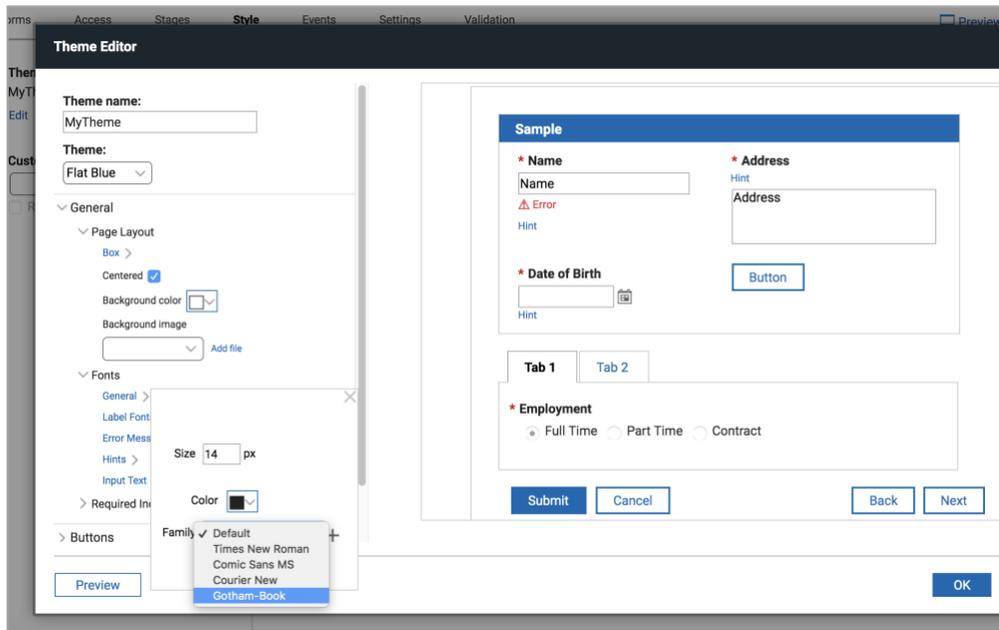
- Click on the Preview icon in the upper right to test the service call.
- Allow pop-ups in your browser.
- Close the preview window.



### Style your app

- Download the font file from <https://leapsandbox.hclnp.com/VoltFiles/Gotham-Book.woff2>.
- Click on the Settings tab on top.
- Select Files on left side and add the font file you downloaded - Gotham-Book.woff2
- Click on the Style tab on the top.

- Under Theme click Customize.
- Under General / Fonts / General select Gotham-Book in Family dropdown.



- Click on the Forms tab to go back to the design canvas.
- Add an Specialized / HTML Fragment from the palette to the bottom of page.
- Add the following in-line CSS to the HTML Fragment. This will hide the top banner.

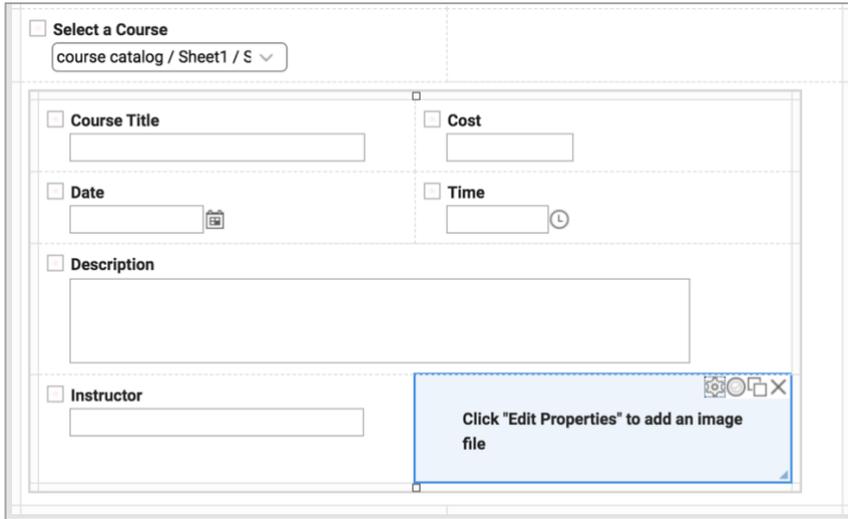
```
<style>
.lotusBanner
{
display: none;
}
</style>
```

- Enter the above HTML directly into the HTML Fragment.
- Preview again to see the style changes.

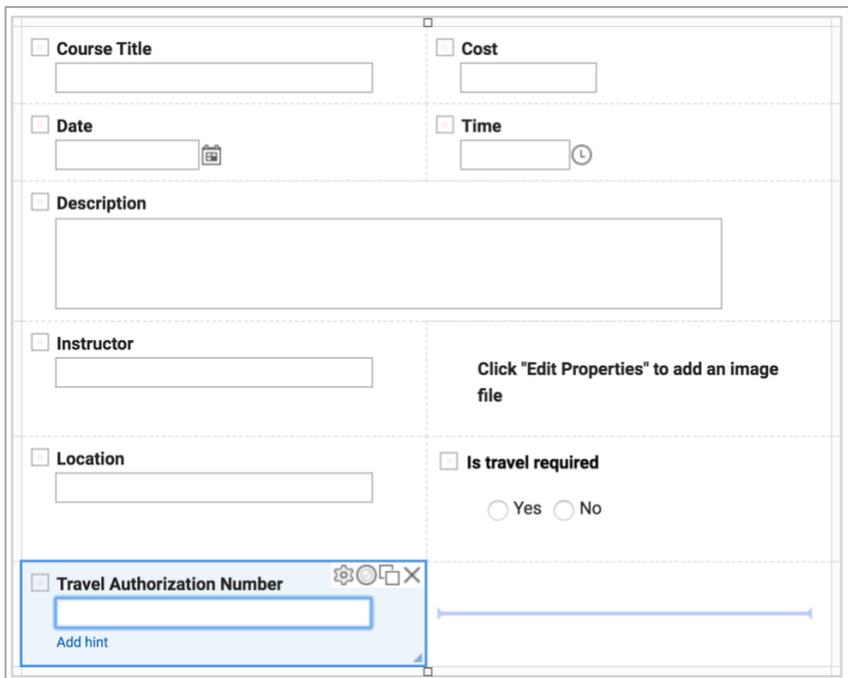
#### Add a Section and fields for selected course information

- Add a Section item from the palette to the bottom of the page.
- Drag the lower right-hand corner of the Section item across columns so that it spans the width of the page.
- Under Section properties  name it 'Course Information'.
- On the Advanced tab of Section properties - Enable dynamic layout and set the breakpoint to 550.

- Add a Single Line Entry field for 'Course Title', Currency field for 'Cost' and then Date and Time fields to the Section.
- Add a Multi-Line Entry field for 'Description' and drag it across columns. Under Properties ⚙️ set the Width to 'Full Width'
- Add a Single Line Entry field for 'Instructor'.
- Add an Image to the right of Instructor and set its height to 60.

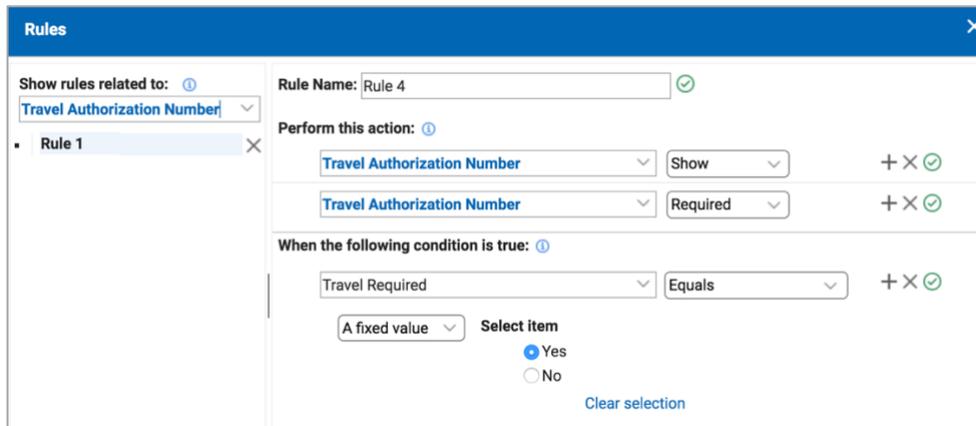


- Add Single Line Entry field for 'Location'.
- Add Select One field for 'Is Travel Required'. Set the choices to 'Yes' and 'No' in properties ⚙️. On the Advanced tab set the Choice Layout to horizontal.
- Add a Single Line Entry field for 'Travel Authorization Number'.



### Add a Rule to show Travel Authorization Number field

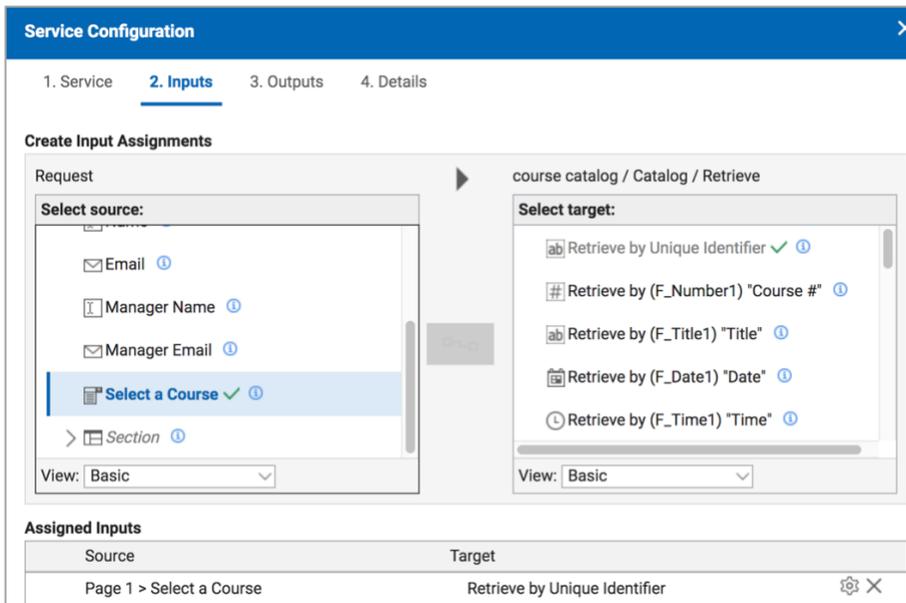
- Click the Rules icon  on Travel Authorization Number.
- Add a Rule to *show* Travel Authorization Number and make it *required* when Is Travel Required *equals* Yes.



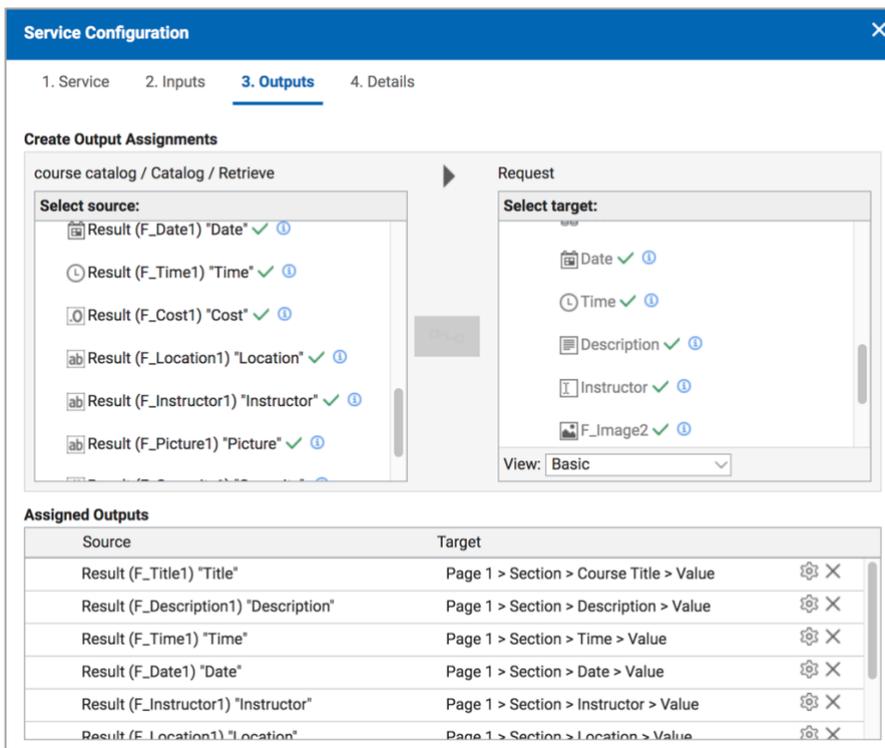
The screenshot shows the 'Rules' configuration window. The 'Show rules related to:' dropdown is set to 'Travel Authorization Number'. A list on the left shows 'Rule 1'. The main area shows 'Rule Name: Rule 4'. Under 'Perform this action:', there are two actions: 'Travel Authorization Number' with 'Show' and 'Required' dropdowns. Under 'When the following condition is true:', there is one condition: 'Travel Required' with 'Equals' dropdown, and a 'Select item' section with 'Yes' selected and 'No' unselected. A 'Clear selection' link is at the bottom.

### Add service to retrieve selected course information

- Edit the Select a Course properties .
- On the Events tab click on onItemChange.
- Click Call a Service and then Add/Edit Service Configuration.  
*Hint: be sure to create a new service configuration. Do not edit the one you created to populate the dropdown.*
- Select Course Catalog / Catalog / Retrieve from the list of services under Current Application.
- Click on 2. Inputs and map the Page1 / Select a Course dropdown to Retrieve by Unique Identifier.



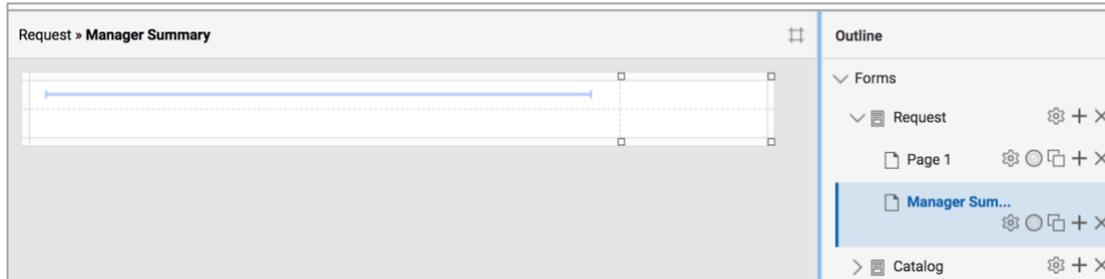
- Click **3. Outputs** and map: Title, Cost, Date, Time, Location, Description and Instructor to their corresponding fields in the form.
- Map Picture to the F\_Image2 item in the form section.
- Click OK.



- Save and preview to test the service configuration settings

## Add manager summary page

- Click on the + icon next to Page 1 in the outline.
- Call the new page Manager Summary.



- Add the image, title and line that are on the top of Page 1 to the top of this new page OR go to Page 1 and duplicate them and drag them over. If you take the second approach remember to delete the newly created rows which will be blank.
- Add Text from the palette and place it below the line.
- Enter the following text:

Your employee:

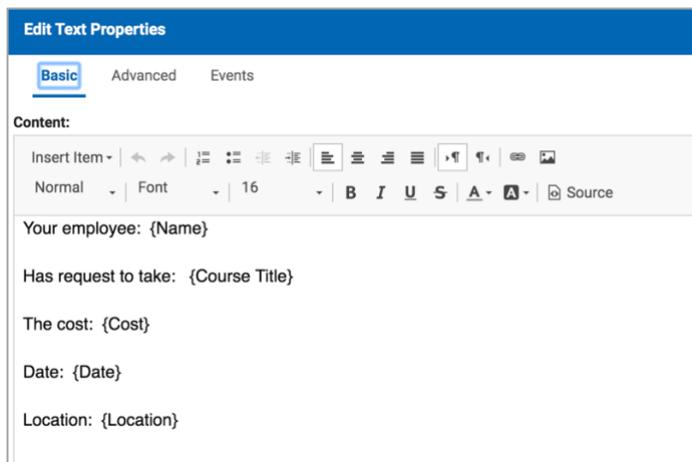
Has requested to take:

The cost:

Date:

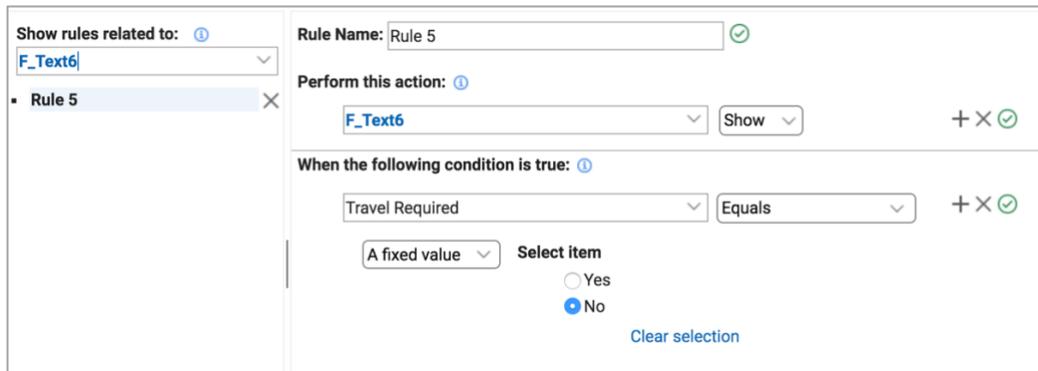
Location:

- Use the Insert Item dropdown to add the value from the form to the end of each line. When you are done it should look like this.

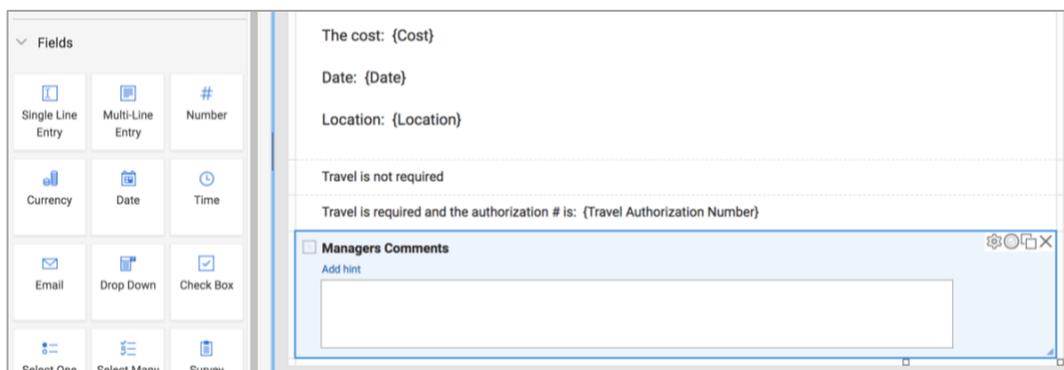


- Drag the Text across columns so it spans the width of the page.
- Add Text from the palette and place it below this and enter 'Travel is not required'.
- Add a Rule to this Text so that it *shows* when Is Travel Required? equals No.
- 

Hint: You need to click  Show items on all pages *Show items on all pages to be able to select Is Travel Required?*

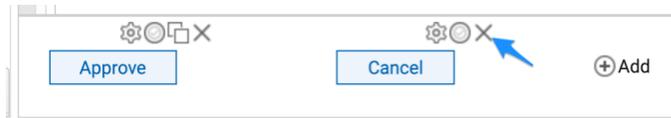


- Add Text from the palette and place it below this and enter 'Travel is required and the authorization # is:'.
- Use the Insert Item dropdown to complete it so it says: 'Travel is required and the authorization # is: {Travel Authorization Number}'.
- Add a rule to this Text so that it *shows* when Is Travel Required equals Yes.
- Add a Multi-Line Entry field from the palette and place it below this.
- Set the properties so that it displays full width.
- Drag it across columns it so it spans the width of the page.
- Name it 'Managers Comments'.
- When you are done the Manager the Summary page should look like this.

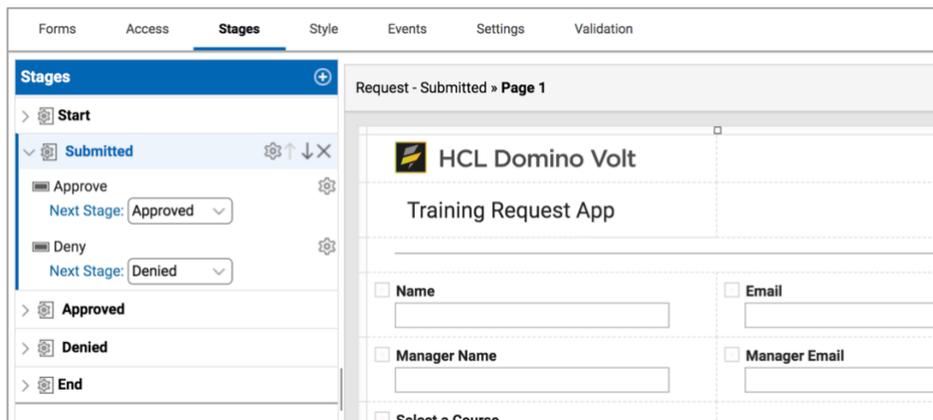


## Add workflow to the app

- Click on the Stages tab.
- Select the Submitted Stage in the Stage outline on the left side of the screen.
- Click the + icon next to Stages and add a new Stage named 'Approved'.
- Click the + icon again and add a new Stage named 'Denied' after Approved.
- Select Submitted Stage and rename the button from Update to 'Approve'.
- Delete the Cancel button under Submitted. You can do this at the bottom.



- Add a submit button and name it 'Deny'.
- Set the Next Stage option for Approve to the Approved Stage.
- Set the Next Stage option for Deny to the Denied Stage.



## Add notifications

- Select the Start Stage and click the properties icon ⚙️ for Submit.
- Under Activities select Send an Email.
- Use the Insert Item dropdown to set the To: field to Manager Email.
- Use Insert Item to set the Cc: field to Email.
- Use Insert Item to add '{Name} is requesting to attend {Course Title}' to the subject line
- Enter the body of the email and use Insert Item to pull values from the form into your text and to add Link to this Form.

**Edit Properties**

Insert Item -  
(Manager Email)

> Cc, Bcc, Reply To

**Subject:**  
A value typed here: ▾  
Insert Item -  
(Name) is requesting to attend (Course Title)

**Contents of the Email:**  
A value typed here: ▾

Insert Item - | Font | Size | **B** *I* U **S** | A - A - | Source

Dear (Manager Name)

Your employee (Name) is requesting to attend (Course Title). Please approve this request by using this link [\(Link to this form\)](#)

OK Apply Cancel

- **DO NOT SAVE** – if messaging is not setup on your server.

### Set access rights and privileges for workflow stages

- Click on the Access tab.
- Select 1. Define Roles on the left.
- Click the + icon to add a new Role named 'Managers'.

Forms **Access** Stages Style Events Settings Validation

**1. Define Roles**

2. Assign Users

Administrator (Role)

Initiator (Role)

Record Owner (Role)

Managers (Role)

3. Stage Settings

Request

Start

Define Roles

Define a list of roles for this application

Add and Manage Roles

1. Administrator X

2. Initiator X

3. Record Owner X

4. **Managers** X +

- Select Managers under 2. Assign Users and add All Authenticated Users to the Role.
- Select the Submitted stage under 3. Stage Settings / Request and set the Managers role to allow updates.

3. Stage Settings

Request

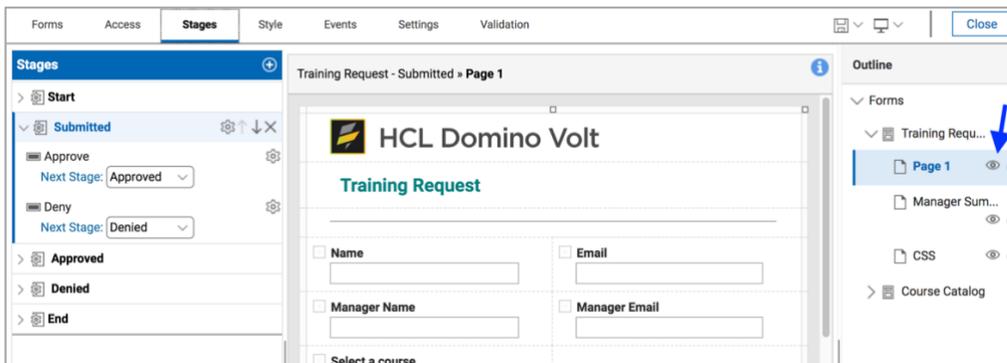
- Start
- Submitted**
- Approved
- Denied

**Request - Submitted**

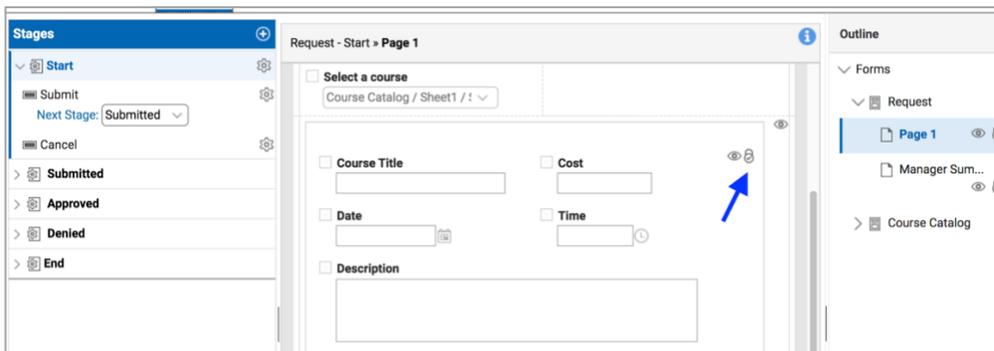
Roles	Create	Read	Update	Delete
Administrator	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Initiator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Record Owner	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Managers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Set Stage visibility rules

- Click on the Stages tab.
- Selected the Submitted Stage.
- Click on the eye icon  next to Page 1 in the outline.



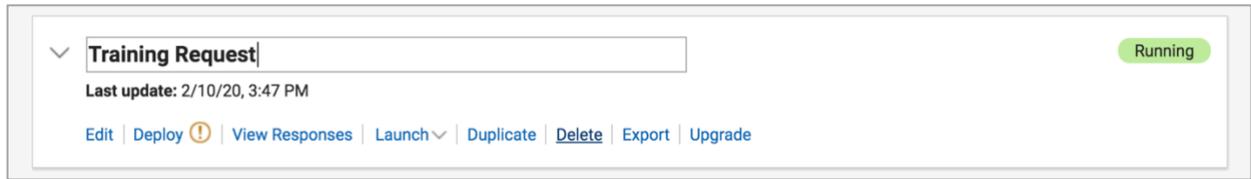
- Select the Start Stage and Page 1.
- Set all the fields in the Course Information section to locked. This is done with the lock icon  next to the field. Do this for all fields in this section except Is Travel Required and Travel Authorization Number.



### Save, deploy and test the app

- Save and go to the Manage page.

- Change the name of the app from course catalog to 'Training Request'. You can do this inline.
- Click Deploy.



- Launch the Request form, fill it out and submit it.
- Go to View Responses from the Manage page to see the newly created record. It should be in the Submitted stage.
- Click on the record to open it. It should show the Manager Summary page.
- Enter something for Manager Comments and click Approve

## HCL Domino Volt

### Training Request

---

Your employee: Marty Lechleider

Has request to take: JavaScript Advanced

The cost: \$1,500.00

Date: 8/1/2020

Location: Boston

Travel is not required

Managers Comments

I approve of this workflow!

Approve
Deny

- Go back to View Responses from the Manage page and see that the record is now in the Approved stage.
- You will need to customize the view to Show Stage since meta data is hidden by default.

**Submission-specific column options:**

Show All
Hide All

Show Stage

Show Created By

Show Created On

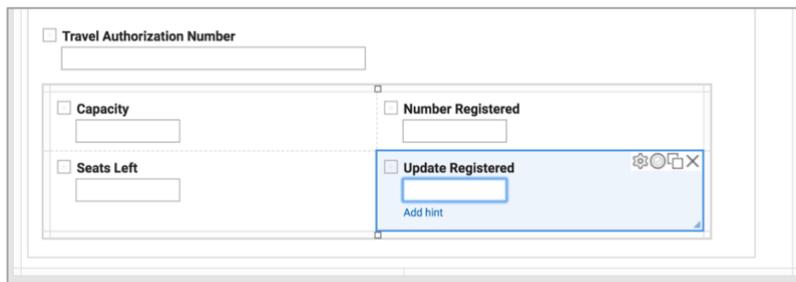
Show Last Updated By

Show Last Updated On

ID	Stage	Created By	Created On	Last Updated By	Last Updated On
1581...	Approved	Marty Lechleider	2/10/20, 4:54 PM	Marty Lechleider	2/10/20, 4:56 PM

## Update the app so that it keeps track of course registration levels

- Add a Section to the bottom of Page 1, name it 'Registration Info – Hidden' and drag it across both columns.
- Add the following Number fields from the palette to the Section – 'Capacity', 'Number Registered', 'Seats Left' and 'Update Registered'.



## Add formula to calculate Seats Left and Update Registration

- Under Seats Left properties  on the Formula tab specify a Minus operation so that Capacity – Number Registered = Seats Left

**Edit Number Properties**

Basic
Advanced
Formula
Events

Choose the function used to set the value of this item:

Minus

Subtracts one value from another

**Input 1**

-

**Input 2**

=

**Result**  
*Seats Left*

[Clear](#)

- Under Update Registered properties  on the Formula tab specify an Add operation so that Number Registered + 1 = Update Registered.

## Add Number Registered field to the Course Catalog

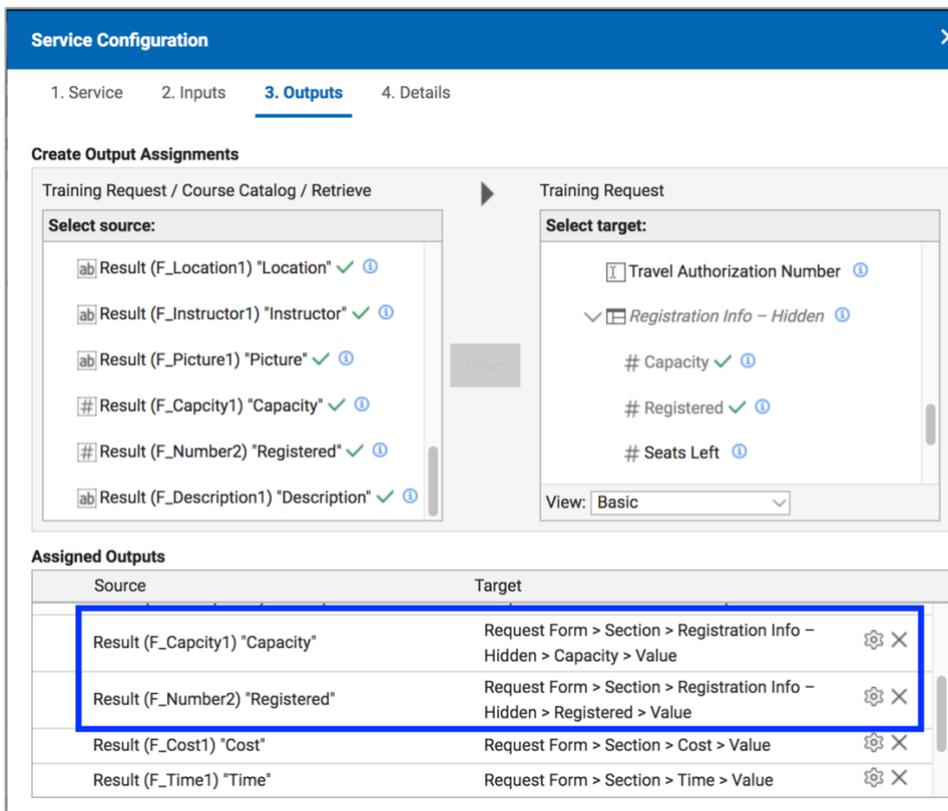
- Select Page 1 in the Catalog form.

- Add a Number field from the palette and place it below Capacity.
- Name it 'Number Registered'.



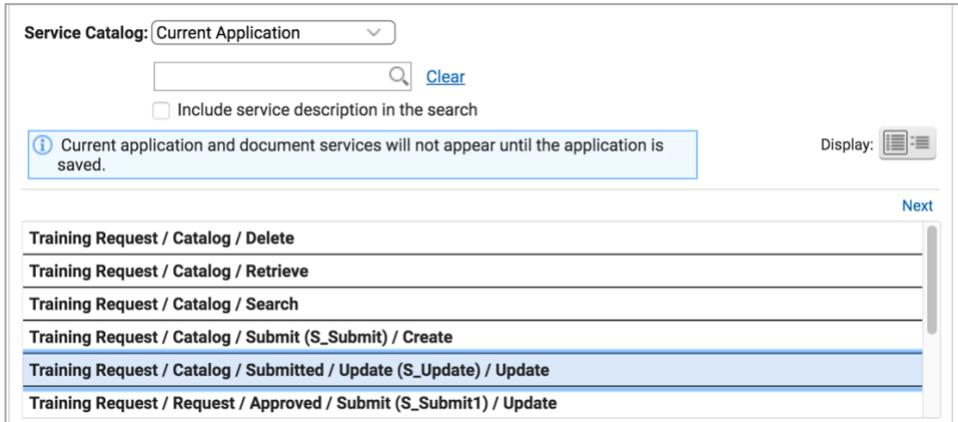
### Update the Retrieve Service to return Capacity and Number Registered

- Go to the Select a Course dropdown on Page 1 in the Request form.
- Open properties and go to the Events tab and select onItemChange.
- Click Add/Edit Service Configuration.
- Select 3. Outputs.
- Map Capacity and Number Registered from the Catalog to the corresponding fields in the new section.

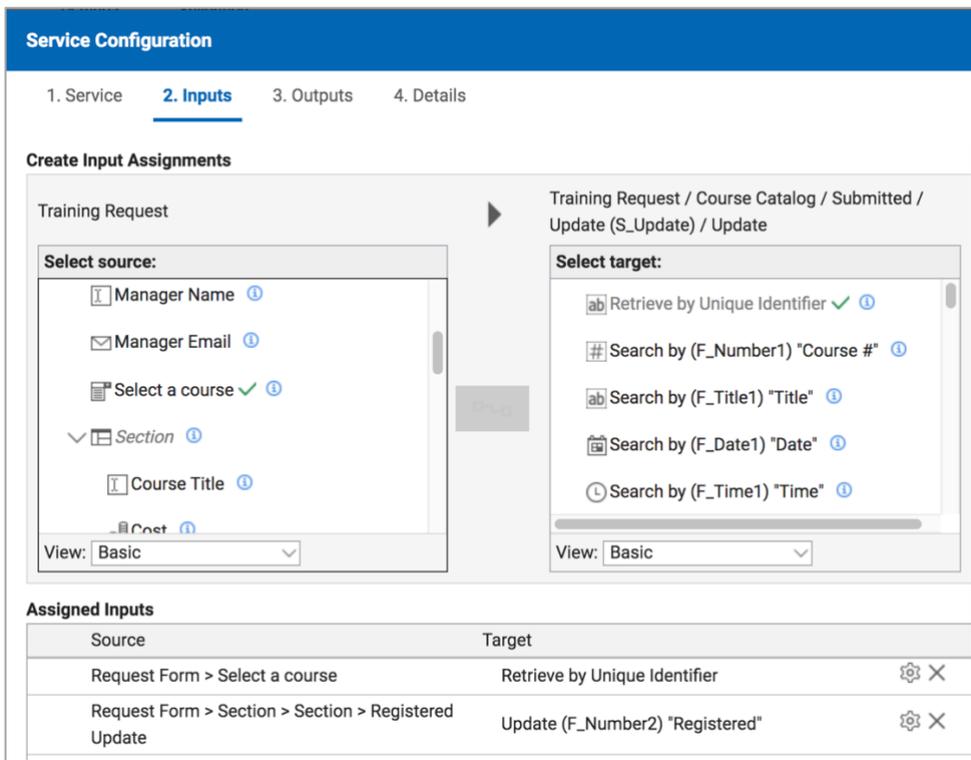


### Add a Service to Update the Number Registered in the Catalog

- Click on the Settings tab and select the Request form under Services.
- Click on the button to Add Service Configuration.
- Under Current Application select the Catalog / Submitted / Update service.



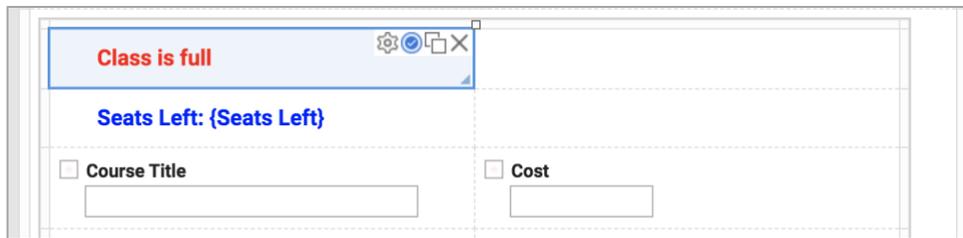
- Under 2. Inputs map Select a Course to Retrieve by Unique Identifier.
- Map Update Registered to Update the Number Registered field in the catalog. Caution: select the 'Update' function and be careful not to select the 'Search by'.



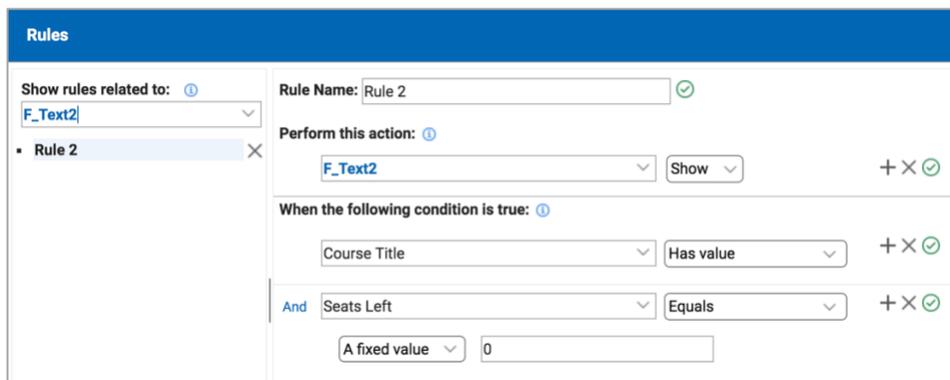
- Click OK to Save the Service Configuration
- Go to the Forms tab to go back to the design canvas
- Open the Request form properties ⚙️.
- Select the Events tab and click on the beforeSave event.
- Click Call a Service and select the Update service you just created.

Text and rules to let the users know how many seats are left and if the class is full

- Add 2 Text items from the palette to the top of the Course Information section. The first one should be 'Class is full'. The second one 'Seats Left: {Seats Left}' where you use the Insert Item dropdown to complete it so that it shows the value of Seats Left.
- Make Class is full red and Seats Left blue.



- Add a rule to the text 'Class is Full' so that it shows when Course Title has a value and Seats Left equal 0.



- Add a rule to the text 'Seats Left: {Seats Left}' so that it shows when Seats Left is greater than 0.

Hide the Registration Info – Hidden section

- On the Stages tab with the Start stage selected – click on the eye icon 👁️ for the Registration Info – Hidden section so that it has a slash through it.

A screenshot of a form with four checkboxes and their corresponding input fields:

- Capacity
- Registered
- Seats Left
- Registered Update

- Note: It’s often useful to save hiding things until last for debug purposes.

### Save, Deploy and test the app

- Click Save and then from the Manage page click Deploy.
- Launch the Request form and submit it number of times for the same course.
- You should see the number of Seats declining and when it reaches 0 should display Class is Full.

A screenshot of a course request form for "JavaScript Basics".

**Select a course**  
JavaScript Basics

**Seats Left: 21**

<b>Course Title</b> JavaScript Basics	<b>Cost</b> \$2,000.00
<b>Date</b> 7/14/2020	<b>Time</b> 9:00 AM

**Description**  
JavaScript is easy to learn. JavaScript is the programming language of HTML and the Web. This course will teach you JavaScript basic concepts and commands. When completed you will be able to create a web application that include JavaScript.

**Instructor**  
Ted Monson

**Location**  
New York

**Travel Required**  
 Yes  No

**Select a course**

New Hire Orientation ▼

---

Class is full

<b>Course Title</b>	<b>Cost</b>
New Hire Orientation	\$3,000.00
<b>Date</b>	<b>Time</b>
5/23/2020 <span style="font-size: small;">📅</span>	8:30 AM <span style="font-size: small;">🕒</span>
<b>Description</b>	
The goal of New Hire Orientation is to welcome new employees and help answer many of the questions employees have when starting a new job. Employees will learn about important policies and procedures as well as gain important information regarding the benefits offered at Greenwell. Orientation will also provide tools that employees can use to	
<b>Instructor</b>	
Mary Jones	
<b>Location</b>	<b>Travel Required</b>
Boston	<input type="radio"/> Yes <input type="radio"/> No

## Use a Table for Course Selection

- From the Manage page select Export on the Training Request application you created.
- Export with data option Include submission data selected.

**Export Application**
✕

Export the application definition including security settings and any uploaded files or images. The exported file can then be imported into another Volt environment.

**Existing data options:**

include submission data?

- Import the application with data and give it a new name – ‘Training Request with Table’.

▼ **Training Request with Table**

Last update: 2/5/20, 11:46 AM

[Edit](#) | [Deploy](#) | [View Responses](#) | [Launch](#) ▼ | [Duplicate](#) | [Delete](#) | [Export](#) | [Upgrade](#)

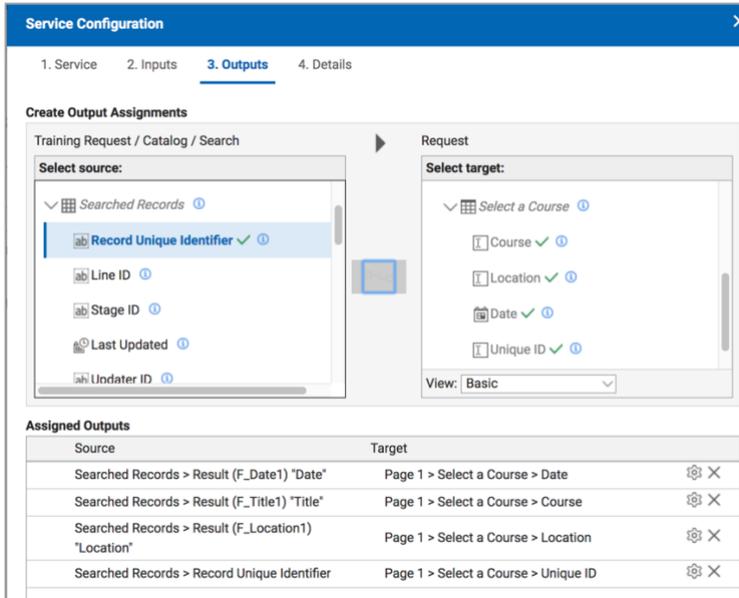
- Edit the new application.

- Delete the Select a Course dropdown. It will warn you that the dropdown is connected to a service but proceed anyway to delete it.
- Add a Table from the palette to the page in the same place. Name the Table 'Select a Course'.
- Add 4 fields to the Table – Single Line Entry named 'Course', Single Line Entry named 'Location', Date and Single Line Entry named 'Unique ID'
- Switch back to Page1
- Under Table properties ⚙ on the Advanced tab set the column widths to 12 for Course, 8 for Location and 8 for Date. Do not display Unique ID by removing it from the Options list (click on ✕)
- Also, under Table properties ⚙ on the Advanced tab set the Table Style to No Buttons and set the Number of rows displayed to 3 rows.
- Drag the Table across columns so it takes up the width of the page.

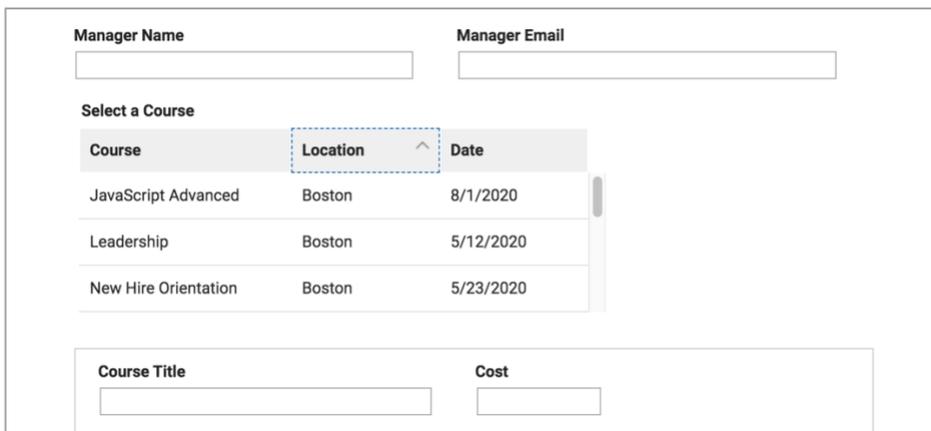


### Populate the Table with a Service

- Under the Settings tab click on Services / Request and find the Catalog / Search service and edit its properties. This is the service that was set up for the dropdown in the first app.
- Click on 3. Output and map the following fields to fields in the table: Record Unique Identifier to Unique ID, Title to Course, Date to Date and Location to Location.



- Go to the Forms tab and edit the Table properties ⚙️.
- On the Events tab click on the onShow event.
- Click on Call a Service and select the Catalog / Search service.
- Preview the form to see if the Table is populating.
- Note that you can click to column headings to sort. This provides the user with more information to decide which course to register for. For example – select a course for a specific city or when a specific course is offered.



### Retrieving the selected course from the Table selection

- Add a Single Line Entry field to the Registration Info – Hidden section. Name it 'Unique ID'.
- Edit the properties ⚙️ for Unique ID. On the Advanced tab set the ID to 'F\_UID'.
- Go to the Table properties ⚙️ on the Events tab select onClick.
- Enter the following JavaScript:

```
var selected = item.getSelection();
if(selected === null)
    return;

BO.F_UID.setValue(selected..getValue());
```

- Put your cursor in between the two periods on the last line of JavaScript (*after selected. and before .getValue()*). Press Shift-Space and navigate to the Unique ID field in the Table and select it. This will pop its ID into the line of JavaScript where your cursor is.
- Note: this JavaScript gets the Unique ID for the Table selection and passes its value to the Unique ID field in the Registration Info – Hidden section.
- Edit the properties of the Unique ID field in the Registration Info – Hidden section.
- From the Events tab select the onItemChange event.
- Click Call a Service and choose the Catalog / Retrieve service.
- Click on Add/Edit Service Configuration.
- Under 2. Inputs – map the Unique ID field to the Retrieve by Unique Identifier in the catalog.
- Click OK and then Preview to test the app.

## Save and Preview the App

- Click on Save.
- From the Manage page click on Deploy.
- Launch the Training Request with Table form to test it.

Course	Location	Date
JavaScript Advanced	Boston	8/1/2020
Leadership	Boston	5/12/2020
New Hire Orientation	Boston	5/23/2020

9 seats left out of 15

**Course Title**  
JavaScript Advanced

**Cost**  
\$1,500.00

**Date**  
8/1/2020

**Time**  
9:00 AM

**Description**  
Learn the advanced features of JavaScript in this one day class. The course will focus on functions and callbacks as well as using AJAX commands to integrate with different REST services.

**Instructor**  
Marty Lechleider 

**Location**  
Boston

**Travel Required**  
 Yes  No