



Lab 2 – Make Beautiful Mobile-Responsive Forms

Overview

This document details how to use the **LoadResource** command to make your forms beautiful and responsive on Desktop view.

Before you start

- This lab assumes that you have finished Day 1 (Lab 1 – Lab 4) and Day 2 Lab 1 exercises.
- **Important:** Use the Start form (*Lab 2 - LoadResource Start.xsn*) provided in this lab.
- In this Lab, we will use a CSS file that is already customized to load the Expense Report's view in a responsive format. If you want to know the contents of the CSS file, right click styles.css and open in Notepad. Here's a preview:

```

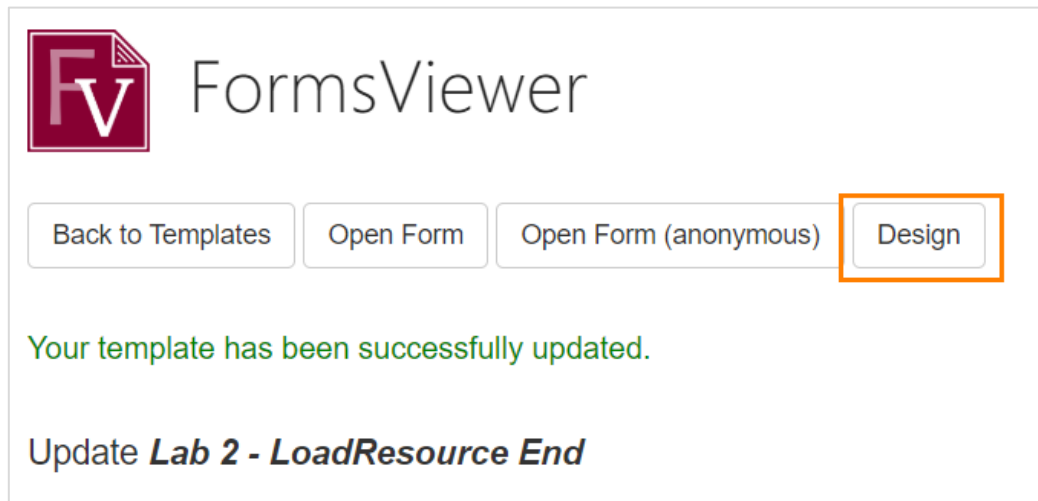
23
24  /* InfoPath Controls */
25  .xdSection {
26      width: 100% !important;
27  }
28
29  .xdSection xdRepeating {
30      width: 100% !important;
31  }
32
33  .xdRepeatingTable {
34      width: 100% !important;
35      border: none;
36  }
37
38  .xdRepeatingTable msoUcTable {
39      width: 100% !important;
40      border: none;
41  }
42
43  .xdRepeatingSection.xdRepeating {
44      width: 100% !important;
45  }
46
47  .xdInlinePicture {
48      width: 50% !important;
49  }
50
51  .xdLinkedPicture {
52      width: 50% !important;
53  }
54
55  .optionalPlaceholder {
56      width: 100% !important;
57  }
58

```

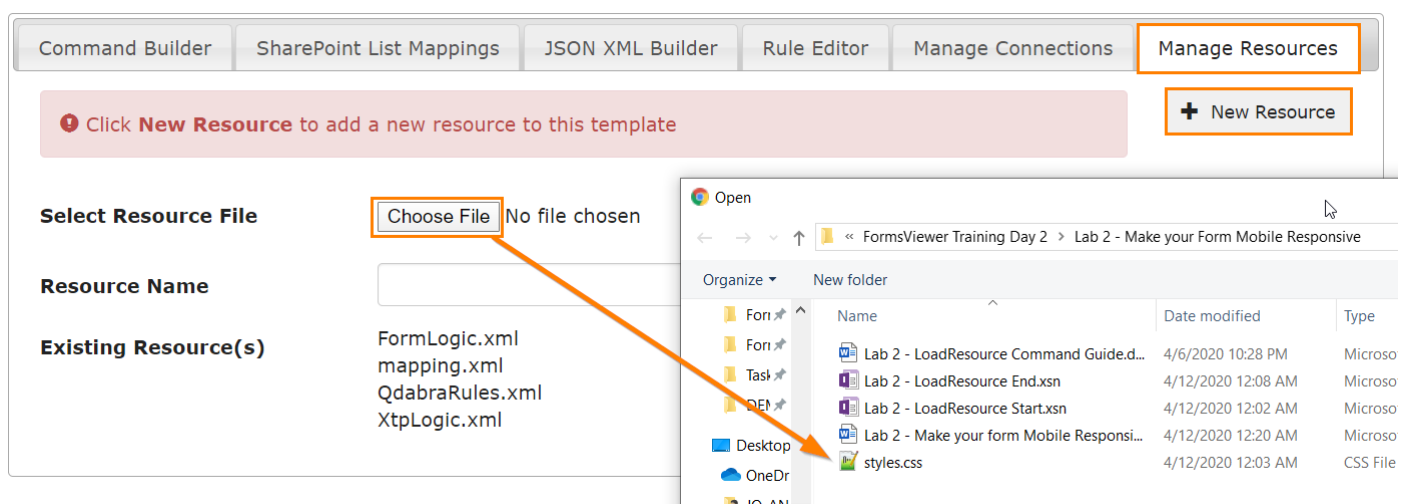
Ready to load this CSS in our form? Follow the next section.

Add Styles.css

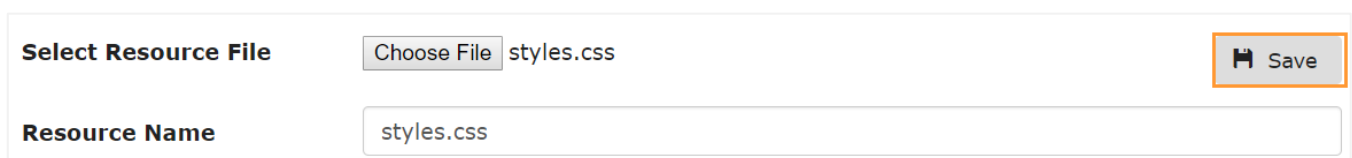
1. Open the starter form for this lab – *Lab 2 - LoadResource Start.xsn*.
2. Upload the form template in FormsViewer, name the form template "*Lab 2 - LoadResource End*" or any name you prefer. Click **Design**.



- Go to **Manage Resources** tab and search for the styles.css file included in Day 2 – Lab 2 package. Add it as a resource file.



- Once file is selected, click **Save**.



Add the Load Resource Command

- Go to **Command Builder** tab and search for the **LoadResource** command.

Command Builder
SharePoint List Mappings
JSON XML Builder
Rule Editor
Manage Connections
Manage Resources

Select Command

Please select a command name

LoadResource
LoadResource

2. Enter the name of the CSS file in the **name** parameter.

Command Builder
SharePoint List Mappings
JSON XML Builder
Rule Editor
Manage Connections
Manage Resources

Select Command
LoadResource

Details

Required Parameters

name
Static Dynamic
styles.css

3. Click **Copy to Clipboard**.

Required Parameters

name
Static Dynamic
styles.css

Optional Parameters

type
Static Dynamic Enter new option
(omit)

unload
Static Dynamic
(omit)

allowexternal
Static Dynamic
(omit)

Copy to Clipboard

Command
LoadResource /name=styles.css

- Go to **Rule Editor** tab and select **Field Rules** as Rule Type.

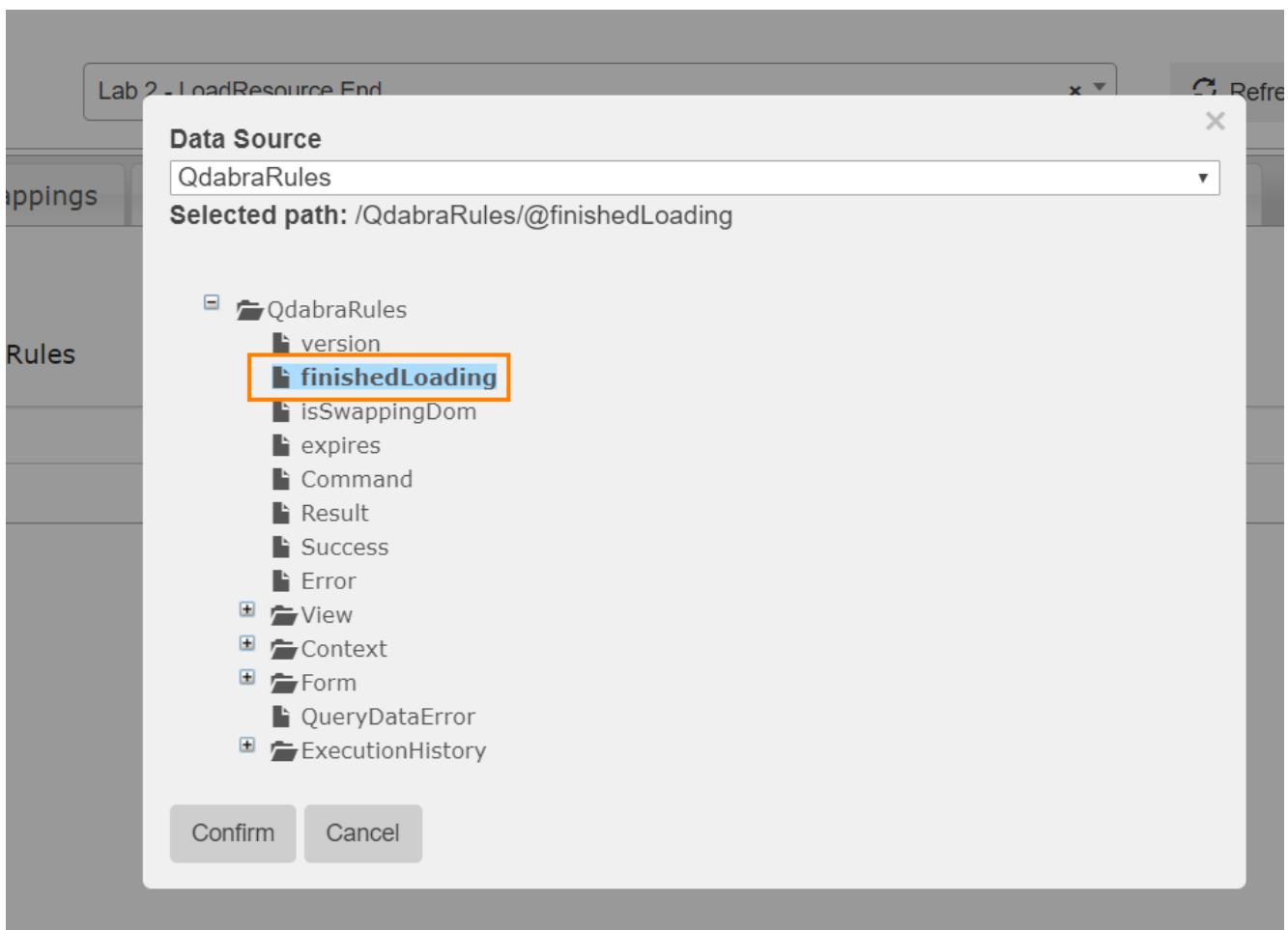
Form Rules

Rule Type

☒ Field Rules
 ☐ Button Rules

Select Field

- Select the **finishedLoading** field from QdabraRules data source.



- Click **+New Rule** and add a rule called **Load CSS**.

Field Rules

Stop if not finished loading - 1 action	↓	×
Run Dynamic DCs - 1 action	↓ ↑	×
Set Current User - 1 action	↓ ↑	×
Set Managers Info - 1 action	↓ ↑	×
Set Status and Report Date - 2 actions	↓ ↑	×
Check if Submitted - 1 action	↓ ↑	×
Refresh - 1 action	↓ ↑	×
Load CSS - 1 action	↑	×

Rule Definition

Rule Name
☒ Enabled
 ☐ Stop at this rule

Condition

- Use the Up-Arrow button to move the rule up so that it runs second from the top.

Field Rules

Stop if not finished loading - 1 action	↓	×
Load CSS - 1 action	↓ ↑	×
Run Dynamic DCs - 1 action	↓ ↑	×
Set Current User - 1 action	↓ ↑	×
Set Managers Info - 1 action	↓ ↑	×
Set Status and Report Date - 2 actions	↓ ↑	×
Check if Submitted - 1 action	↓ ↑	×
Refresh - 1 action	↑	×

- Leave the action **Set a field's value**.
- In the Target Field, select the qRules **Command** node and enter the command we just built using the **Command Builder** in the Expression box. Don't forget to surround it in quotes.

```
"LoadResource /name=styles.css"
```

Rule Definition

Rule Name

Load CSS

☒ Enabled

Condition

Actions

To use a static value in expression for **Set a field's value** surround it in quotes, like "Use this value"

×

Set a field's value

xdXDocument:GetDOM("QdabraRules")/QdabraRules/Command

"LoadResource /name=styles.css"

10. Once done, click **Save Changes**.

Test Your Form!

1. Go back to the Upload Template page and click Open Form.

Back to Templates

Open Form

Open Form (anonymous)

Design

Update **Lab 2 - LoadResource End**

Form Template:

Click / Drop here to upload files

2. The form displays in a nice background and the controls / tables now have styling – you can compare it with the form in the previous lab and you'll notice the changes.

Previous Lab:


Close

EXPENSE REPORT

NAME
Jo-Anne Tandaan

MANAGER
Kaoru Okumura

ACCOUNTING MANAGER
Kaoru Okumura

REPORT DATE
4/12/2020

BUSINESS PURPOSE*

EXPENSE ITEMS

FROM: TO:

CATEGORY *	DATE *	DESCRIPTON	MERCHANT	RECEIPT	AMOUNT *
Select...				Attach file	
SUBTOTAL					\$0.00
LESS CASH ADVANCE					\$0.00
TOTAL					\$0.00

Insert item

Submit

Solution Version: 1.0.1.1488
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After adding CSS and LoadResource:


Close

EXPENSE REPORT

NAME
Jo-Anne Tandaan

MANAGER
Kaoru Okumura

ACCOUNTING MANAGER
Kaoru Okumura

REPORT DATE
4/12/2020

BUSINESS PURPOSE*

EXPENSE ITEMS

FROM: TO:

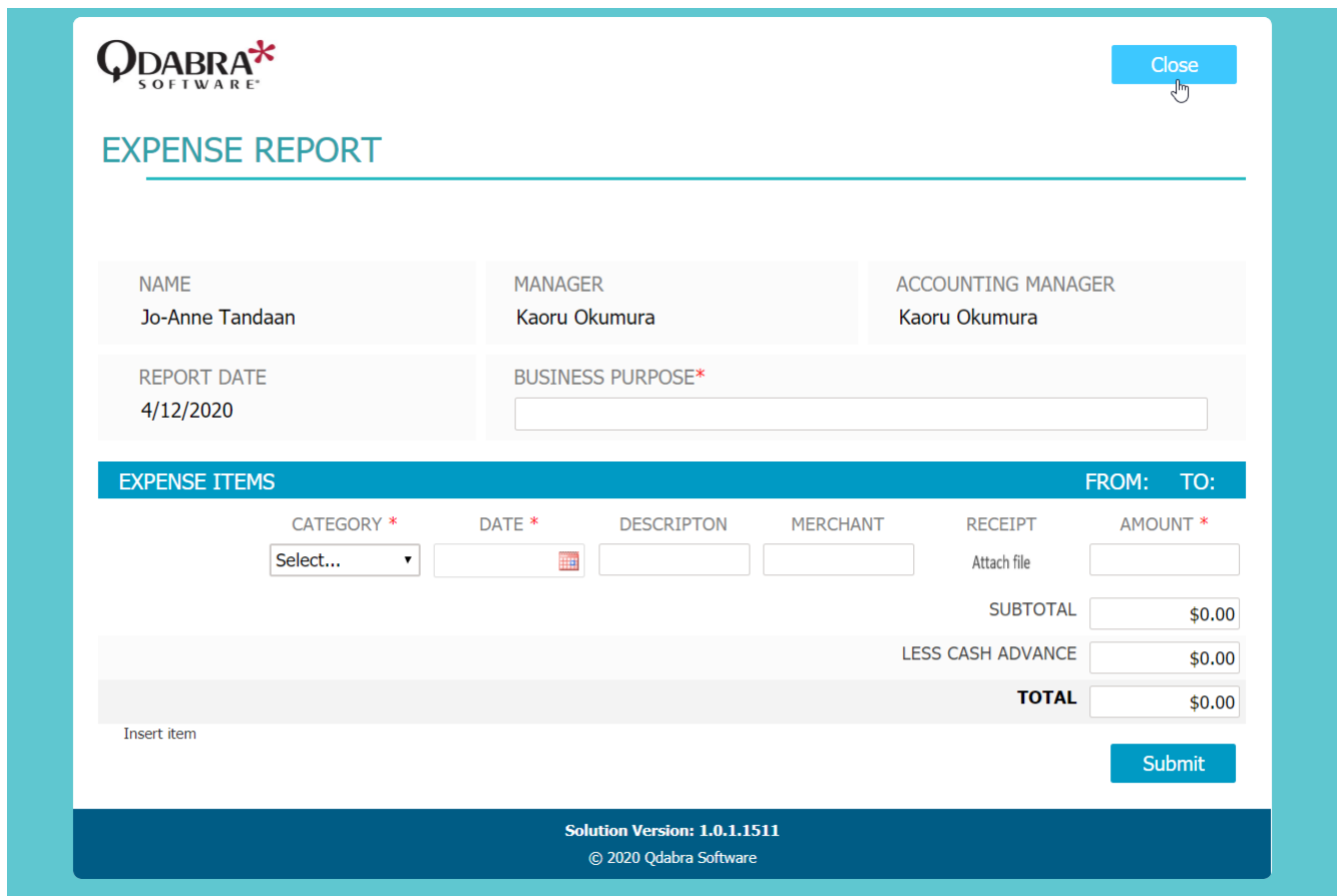
CATEGORY *	DATE *	DESCRIPTON	MERCHANT	RECEIPT	AMOUNT *
Select...				Attach file	
SUBTOTAL					\$0.00
LESS CASH ADVANCE					\$0.00
TOTAL					\$0.00

Insert item

Submit

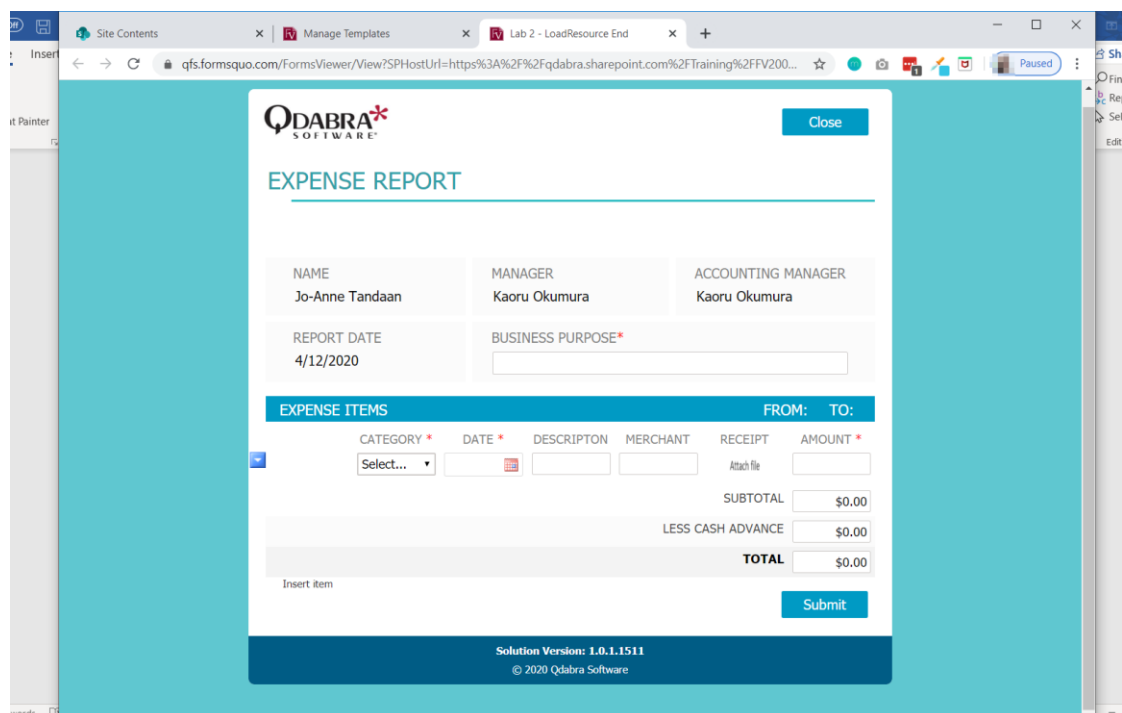
Solution Version: 1.0.1.1511
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- The buttons have nice modern styling, too. Try hovering on one of the buttons (Submit or Close)



The screenshot shows a web form titled "EXPENSE REPORT" with the QDABRA SOFTWARE logo in the top left. A "Close" button is in the top right. The form contains several input fields: NAME (Jo-Anne Tandaan), MANAGER (Kaoru Okumura), ACCOUNTING MANAGER (Kaoru Okumura), REPORT DATE (4/12/2020), and BUSINESS PURPOSE* (empty). Below these is a table for "EXPENSE ITEMS" with columns: CATEGORY* (dropdown), DATE* (calendar icon), DESCRIPTION, MERCHANT, RECEIPT (Attach file), and AMOUNT*. The table has a "FROM:" and "TO:" header. Below the table are summary rows: SUBTOTAL (\$0.00), LESS CASH ADVANCE (\$0.00), and TOTAL (\$0.00). An "Insert item" link is at the bottom left, and a "Submit" button is at the bottom right. The footer shows "Solution Version: 1.0.1.1511" and "© 2020 Qdabra Software".

- The form now becomes responsive, which makes the web pages render well on a variety of devices and screen sizes.



This screenshot shows the same "EXPENSE REPORT" form as above, but it is displayed within a browser window to demonstrate its responsive design. The browser's address bar shows a URL from formsquero.com. The form itself is centered and scaled appropriately for the screen size, with the QDABRA SOFTWARE logo and "Close" button at the top. The form fields and summary rows are clearly visible and legible.

Congrats! 😊 You have finished the exercises for Lab 2.

You may check out the End form for this lab (*Lab 2 - LoadResource End.xsn*).

Contact Information

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