Redwood Customization.

Defaulting with JavaScript in Suppliers Redwood page when Business Rules do not allow defaulting for some fields.

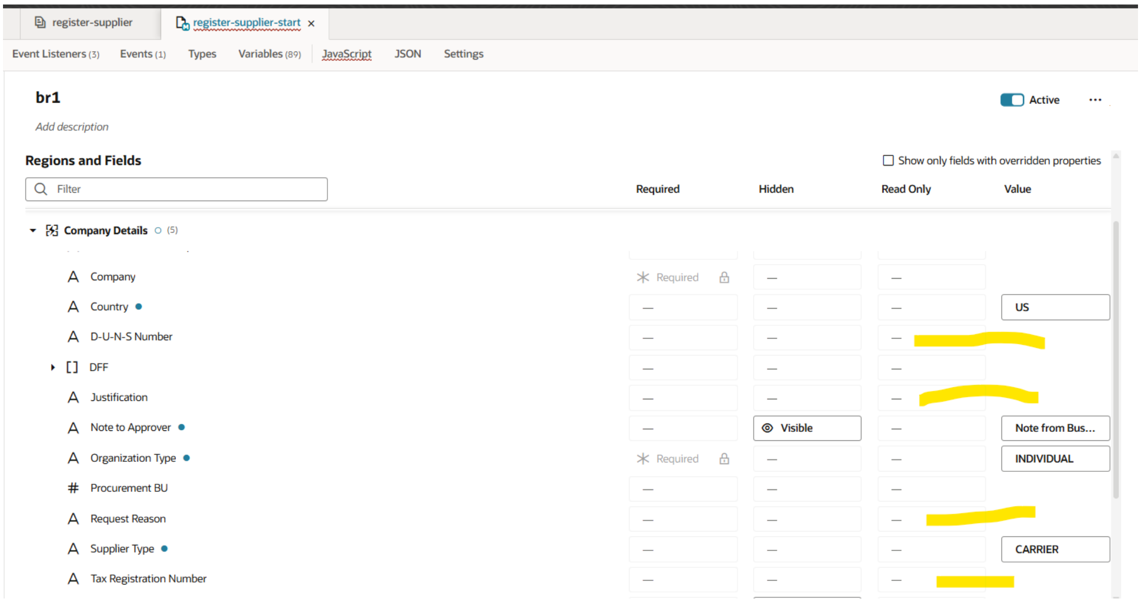
DISCLAIMER: this is for investigation, use at your discretion, no guarantee provided.

Code provided in GitHub: https://github.com/juanjesusmontero/oracle_redwood_cookbook

File: redwood_book_2026_esllqdegcm-demoservices001-phx_jjmr-project_93251_2-1.0.zip

Introduction.

This is the page where business rules can be set up, notice the fields that can and cannot be defaulted.



br1

Add description

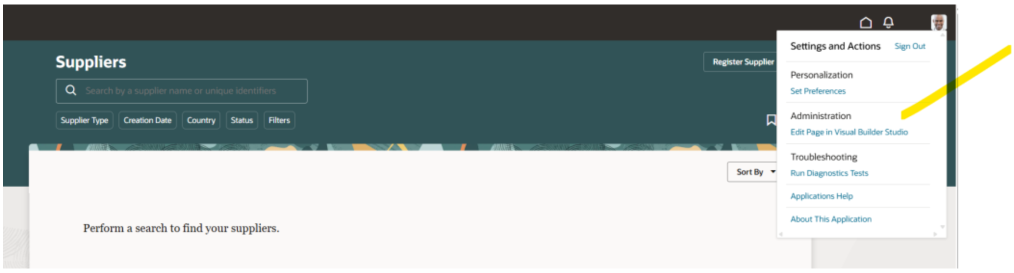
Regions and Fields

☐ Show only fields with overridden properties

Company Details ○ (5)	Required	Hidden	Read Only	Value
Company	Required	—	—	
Country ●	—	—	—	US
D-U-N-S Number	—	—	—	
DFF	—	—	—	
Justification	—	—	—	
Note to Approver ●	—	Visible	—	Note from Bus...
Organization Type ●	Required	—	—	INDIVIDUAL
Procurement BU	—	—	—	
Request Reason	—	—	—	
Supplier Type ●	—	—	—	CARRIER
Tax Registration Number	—	—	—	

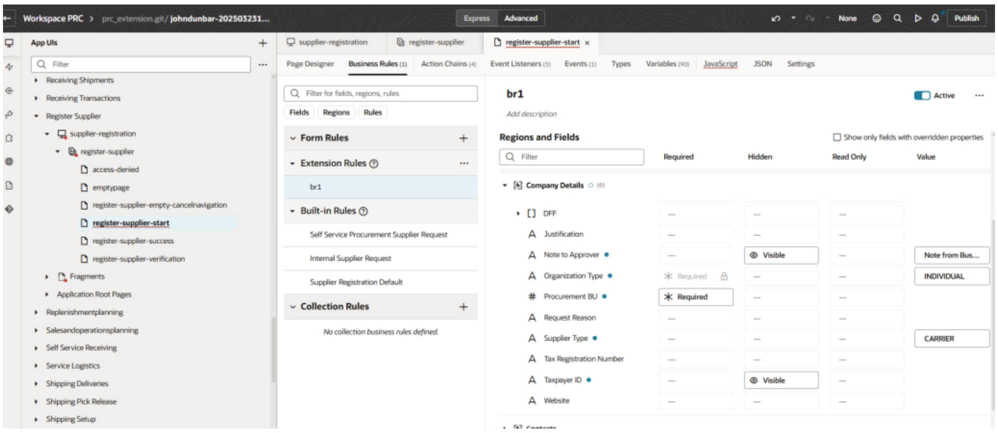
Preparation.

Navigate to Suppliers (new) as shown, and then click in this Link.

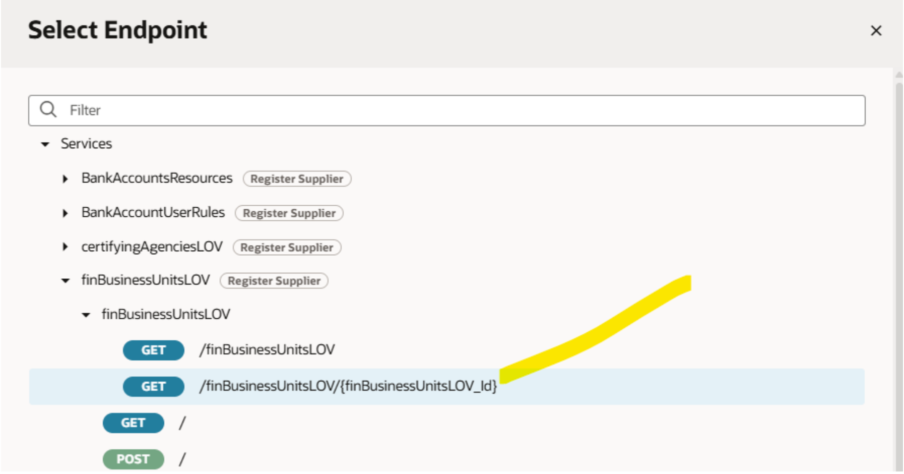


Perform a search to find your suppliers.

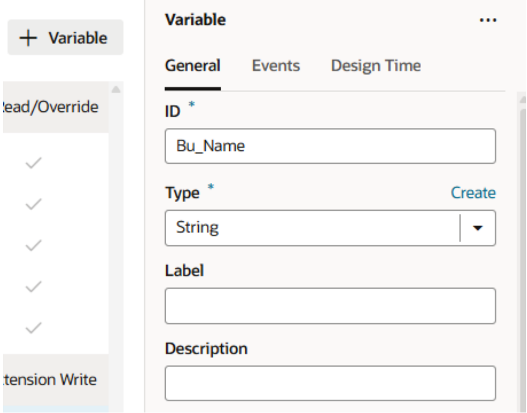
For learning purposes, create a Business Rule as shown.



New connection is not NEEDED as we already have one in customization to retrieve the name of the Business Unit.



Create a new variable.



ID *

Bu_Name

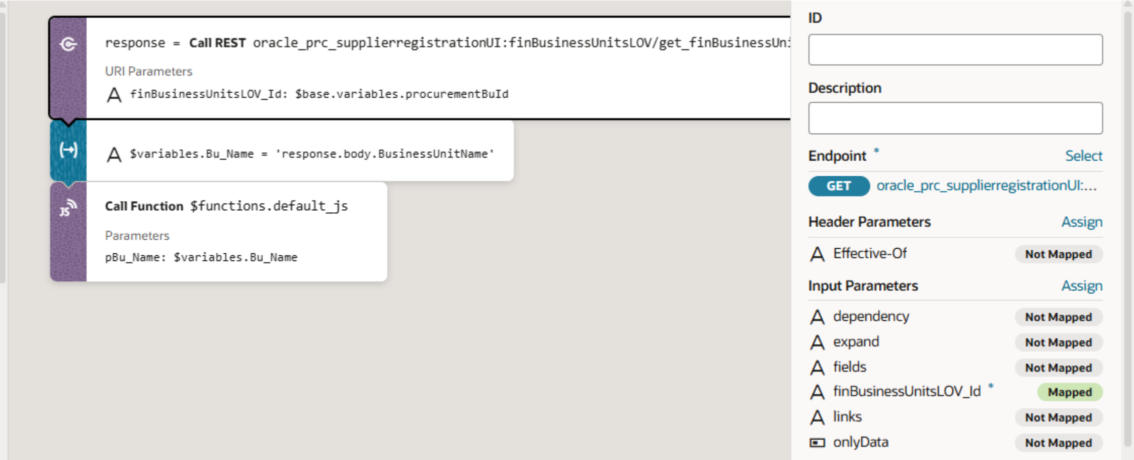
Type *

String

Label

Description

Create an Action Chain with these steps.



```
response = Call REST oracle_prc_supplierregistrationUI:finBusinessUnitsLOV/get_finBusinessUni
URI Parameters
finBusinessUnitsLOV_Id: $base.variables.procurementBuId

$variables.Bu_Name = 'response.body.BusinessUnitName'

Call Function $functions.default_js
Parameters
pBu_Name: $variables.Bu_Name
```

ID

Description

Endpoint * Select

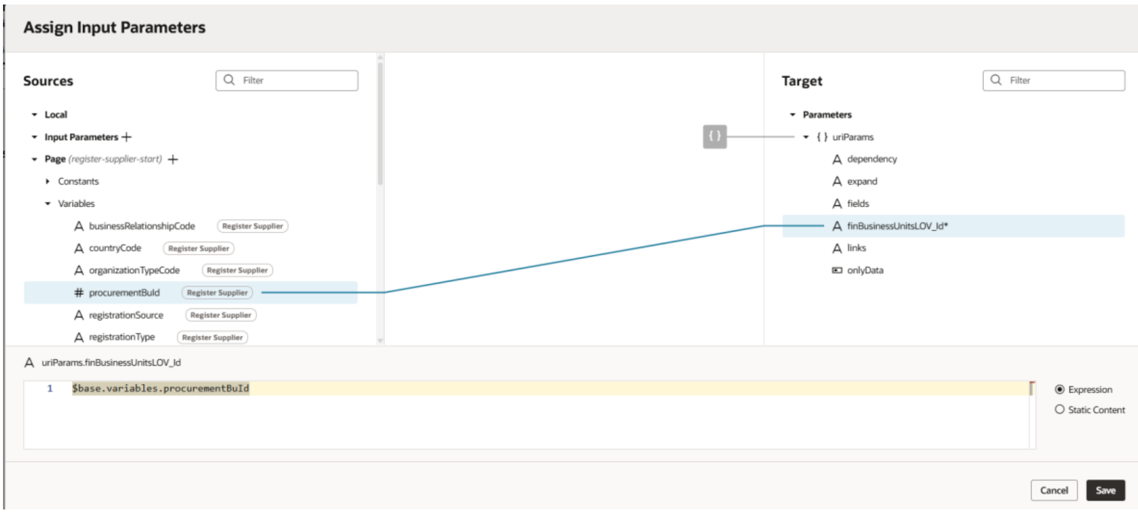
GET oracle_prc_supplierregistrationUI:...

Header Parameters	Assign
Effective-Of	Not Mapped

Input Parameters	Assign
dependency	Not Mapped
expand	Not Mapped
fields	Not Mapped
finBusinessUnitsLOV_Id *	Mapped
links	Not Mapped
onlyData	Not Mapped

<u>Explanation for the steps:</u>

1) Call REST API to find the name of the Business Unit.

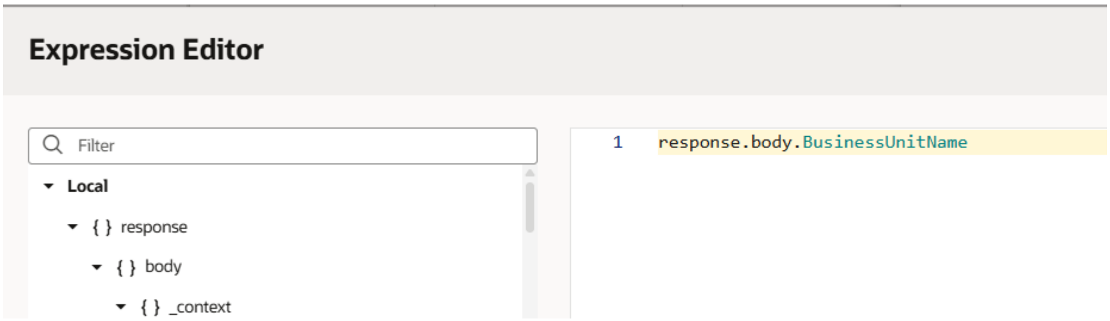


uriParams.finBusinessUnitsLOV_Id

```
$base.variables.procurementBuId
```

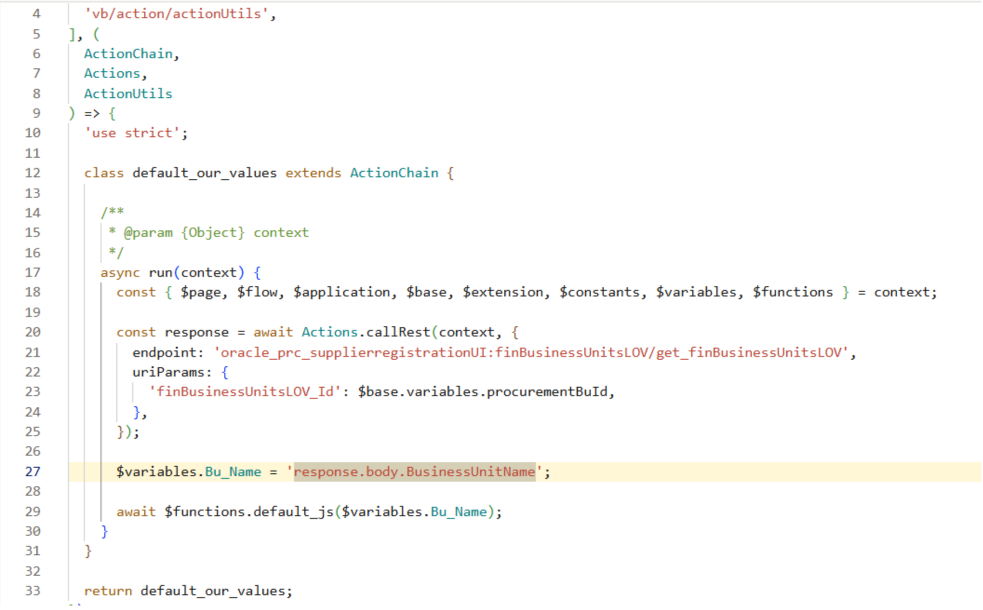
● Expression
○ Static Content

2) Assign response to variable.



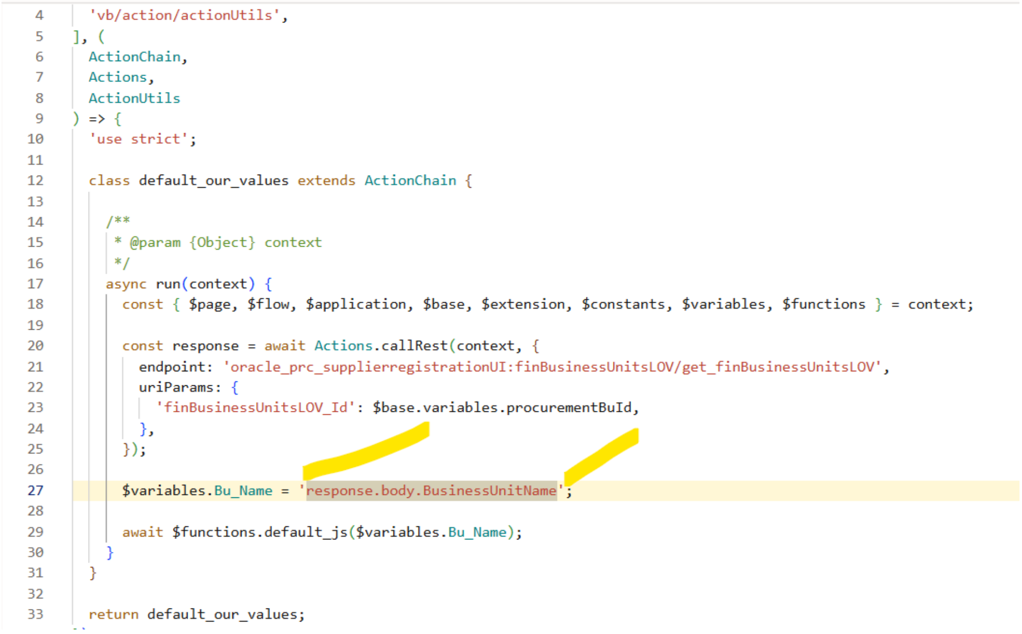
```
response.body.BusinessUnitName
```

Tip: sometimes the tool requires to remove quotation marks.



```
  'vb/action/actionUtils',
], (
  ActionChain,
  Actions,
  ActionUtils
) => {
  'use strict';

  class default_our_values extends ActionChain {

    /**
     * @param {Object} context
     */
    async run(context) {
      const { $page, $flow, $application, $base, $extension, $constants, $variables, $functions } = context;

      const response = await Actions.callRest(context, {
        endpoint: 'oracle_prc_supplierregistrationUI:finBusinessUnitsLOV/get_finBusinessUnitsLOV',
        uriParams: {
          'finBusinessUnitsLOV_Id': $base.variables.procurementBuId,
        },
      });

      $variables.Bu_Name = 'response.body.BusinessUnitName';

      await $functions.default_js($variables.Bu_Name);
    }
  }

  return default_our_values;
```

After removing quotation marks.



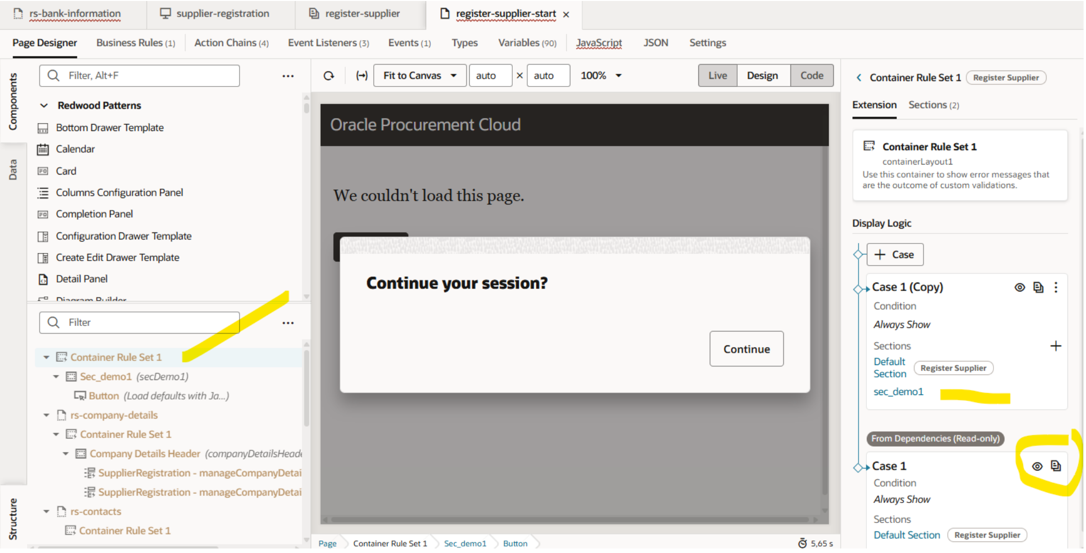
```
  'vb/action/actionUtils',
], (
  ActionChain,
  Actions,
  ActionUtils
) => {
  'use strict';

  class default_our_values extends ActionChain {

    /**
     * @param {Object} context
     */
    async run(context) {
      const { $page, $flow, $application, $base, $extension, $constants, $variables, $functions } = context;

      const response = await Actions.callRest(context, {
        endpoint: 'oracle_prc_supplierregistrationUI:finBusinessUnitsLOV/get_finBusinessUnitsLOV',
        uriParams: {
          'finBusinessUnitsLOV_Id': $base.variables.procurementBuId,
        },
      });

      $variables.Bu_Name = 'response.body.BusinessUnitName';

      await $functions.default_js($variables.Bu_Name);
    }
  }

  return default_our_values;
```

3) Call our JavaScript.

```
define([], () => {
  'use strict';

  class PageModule {
  }

  PageModule.prototype.default_js = function (pBu_Name) {

    alert('Hi from VB_REDWOOD_COOKBOOK_2025');

    // These lines are just to play, and see what we can acomplish with JavaScript
    document.getElementById("companyDetailsID_fl_manageCompanyDetails.Justification").style = 
"background-color:green";
    document.getElementById("companyDetailsID_fl_manageCompanyDetails.Justification").style = 
"color:#00446B;font-weight: bold;";
    document.getElementById("companyDetailsID_fl_manageCompanyDetails.Justification").style.backgroun
dColor = "green";
    document.getElementById("companyDetailsID_fl_manageCompanyDetails.Justification").style.color = 
"red";
```

```
    document.getElementById("companyDetailsID_fl_manageCompanyDetails.Justification").required =
true;
    document.getElementById("companyDetailsID_fl_manageCompanyDetails.Justification").placeholder =
"Your text , please.";
    document.getElementById("companyDetailsID_fl_manageCompanyDetails.Justification").hint = "Our
hint";
    document.getElementById("companyDetailsID_fl_manageCompanyDetails.Justification").focus();

    // For demo purposes. Adapt to your needs
    // See DISCLAIMER
    if (pBu_Name === 'US1 Business Unit') {
      document.getElementById("companyDetailsID_fl_manageCompanyDetails.Justification").value = "Demo
from JavaScript:" + pBu_Name;
      document.getElementById("companyDetailsID_fl_manageCompanyDetails.CorporateWebsite").value =
"www.oracle.com";
      document.getElementById("busRelSelectSingle").value = "SPEND_AUTHORIZED";
      document.getElementById("taxOrganizationType").value = "INDIVIDUAL";
    }
    else {
      document.getElementById("companyDetailsID_fl_manageCompanyDetails.Justification").value = "Demo
from JavaScript:"+ pBu_Name;
      document.getElementById("companyDetailsID_fl_manageCompanyDetails.CorporateWebsite").value =
"www.sap.com";
      document.getElementById("busRelSelectSingle").value = "PROSPECTIVE";
      document.getElementById("taxOrganizationType").value = "CORPORATION";

    }

  };

  return PageModule;
});
```

4) Duplicate case and create section.

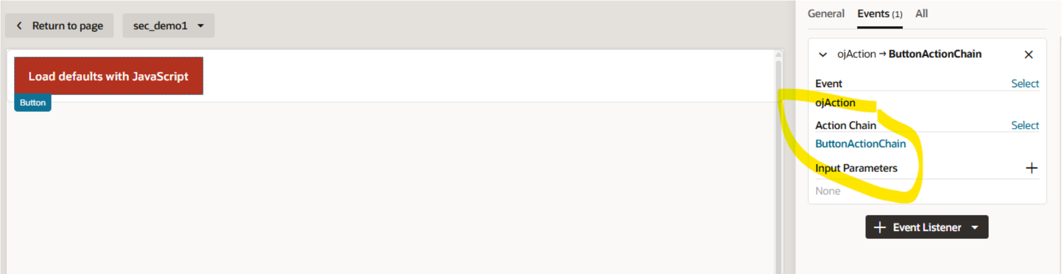


We couldn't load this page.

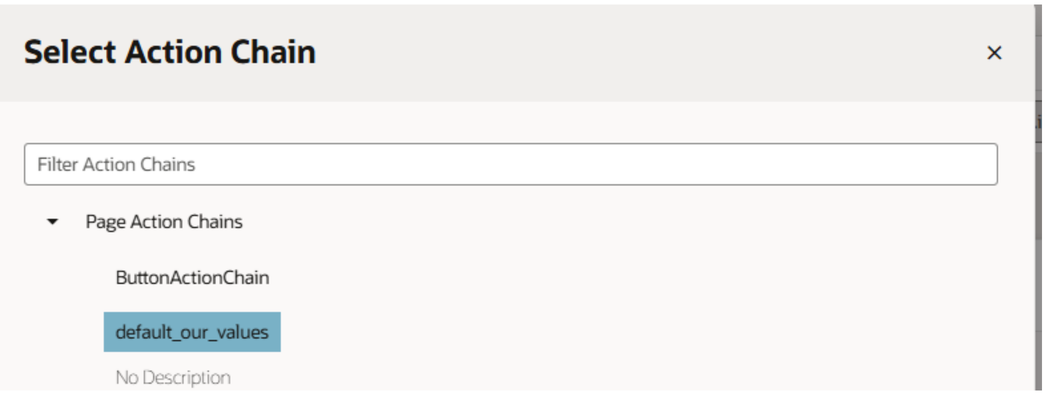
Continue your session?

Use this container to show error messages that are the outcome of custom validations.

5) Create button component in new section.

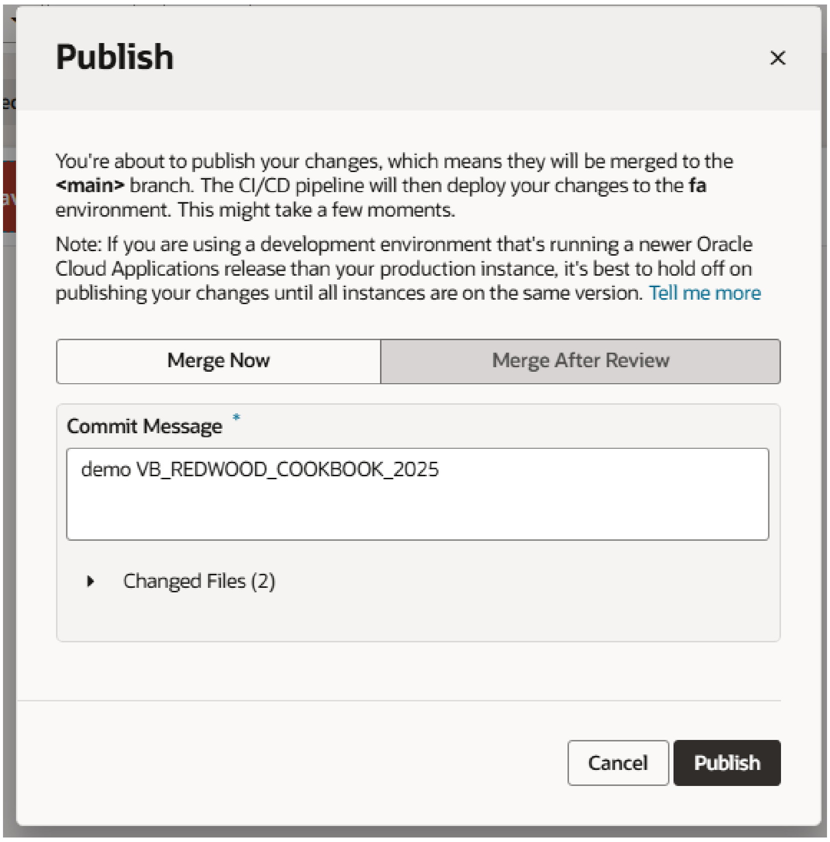


6) And call our Action Chain created above in new button.



Select Action Chain

7) Publish the customization and test.



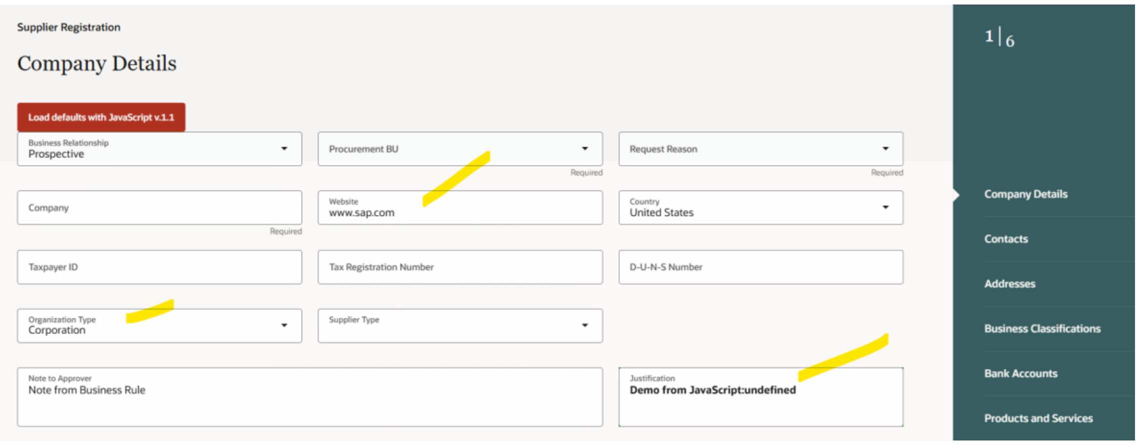
Publish

You're about to publish your changes, which means they will be merged to the **<main>** branch. The CI/CD pipeline will then deploy your changes to the **fa** environment. This might take a few moments.

Note: If you are using a development environment that's running a newer Oracle Cloud Applications release than your production instance, it's best to hold off on publishing your changes until all instances are on the same version. Tell me more

Commit Message *: demo VB_REDWOOD_COOKBOOK_2025

Check with no Business Unit selected.



Supplier Registration

Company Details

Load defaults with JavaScript v.1.1

Business Relationship: Prospective

Procurement BU (Required)

Request Reason (Required)

Company (Required)

Website: www.sap.com

Country: United States

Taxpayer ID

Tax Registration Number

D-U-N-S Number

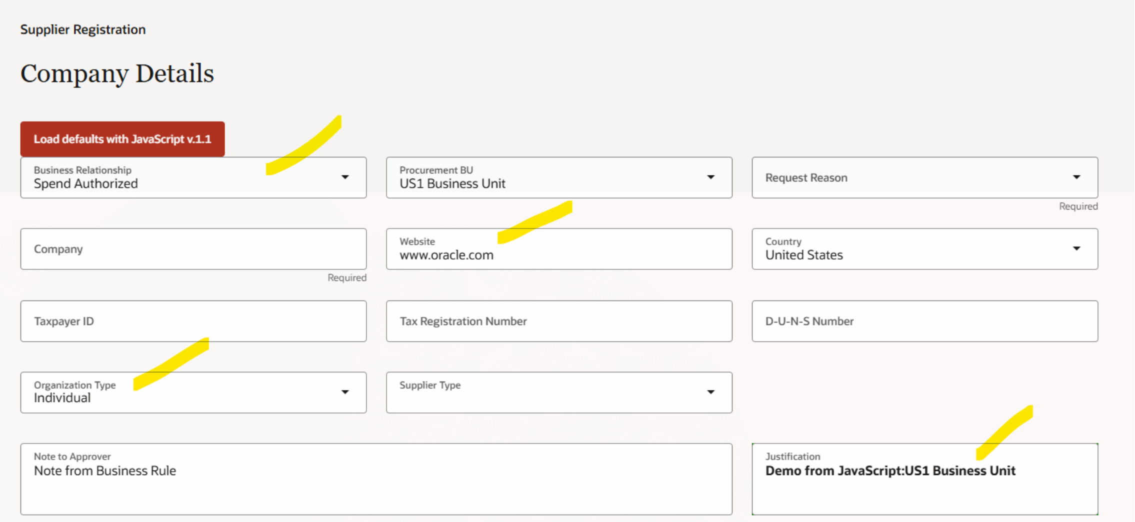
Organization Type: Corporation

Supplier Type

Note to Approver: Note from Business Rule

Justification: **Demo from JavaScript:undefined**

Check with the Business Unit in the first “if” in JavaScript.



Supplier Registration

Company Details

Load defaults with JavaScript v.1.1

Business Relationship: Spend Authorized

Procurement BU: US1 Business Unit

Request Reason (Required)

Company (Required)

Website: www.oracle.com

Country: United States

Taxpayer ID

Tax Registration Number

D-U-N-S Number

Organization Type: Individual

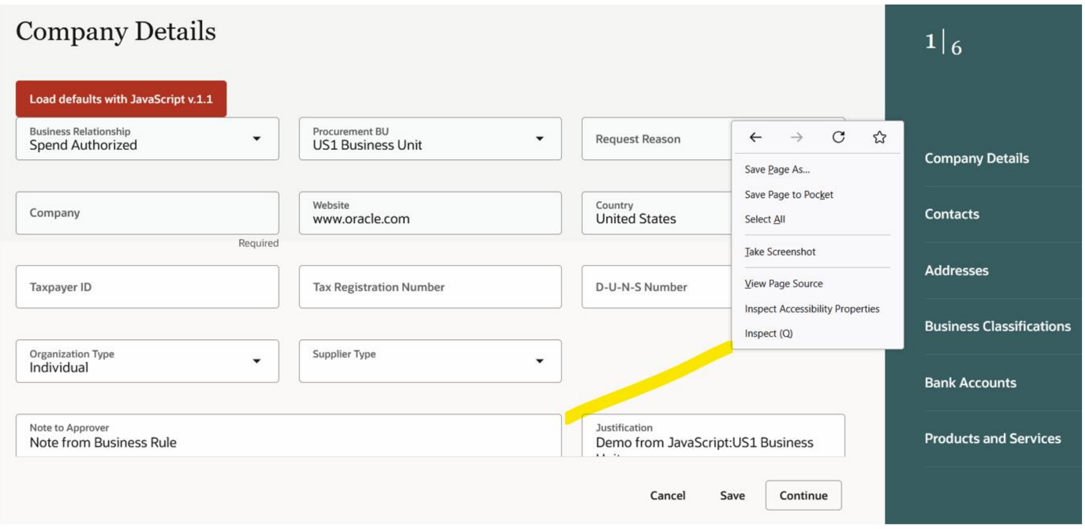
Supplier Type

Note to Approver: Note from Business Rule

Justification: **Demo from JavaScript:US1 Business Unit**

8) Where is the trick to know the name of the fields?

Run the Redwood Suppliers page, click right button.



Company Details

Load defaults with JavaScript v.1.1

Business Relationship: Spend Authorized

Procurement BU: US1 Business Unit

Request Reason

Company (Required)

Website: www.oracle.com

Country: United States

Taxpayer ID

Tax Registration Number

D-U-N-S Number

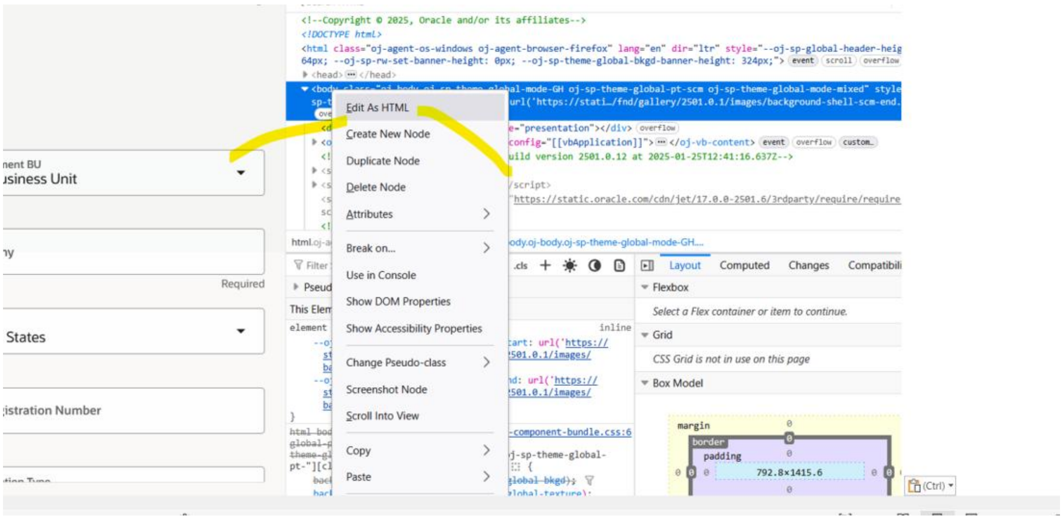
Organization Type: Individual

Supplier Type

Note to Approver: Note from Business Rule

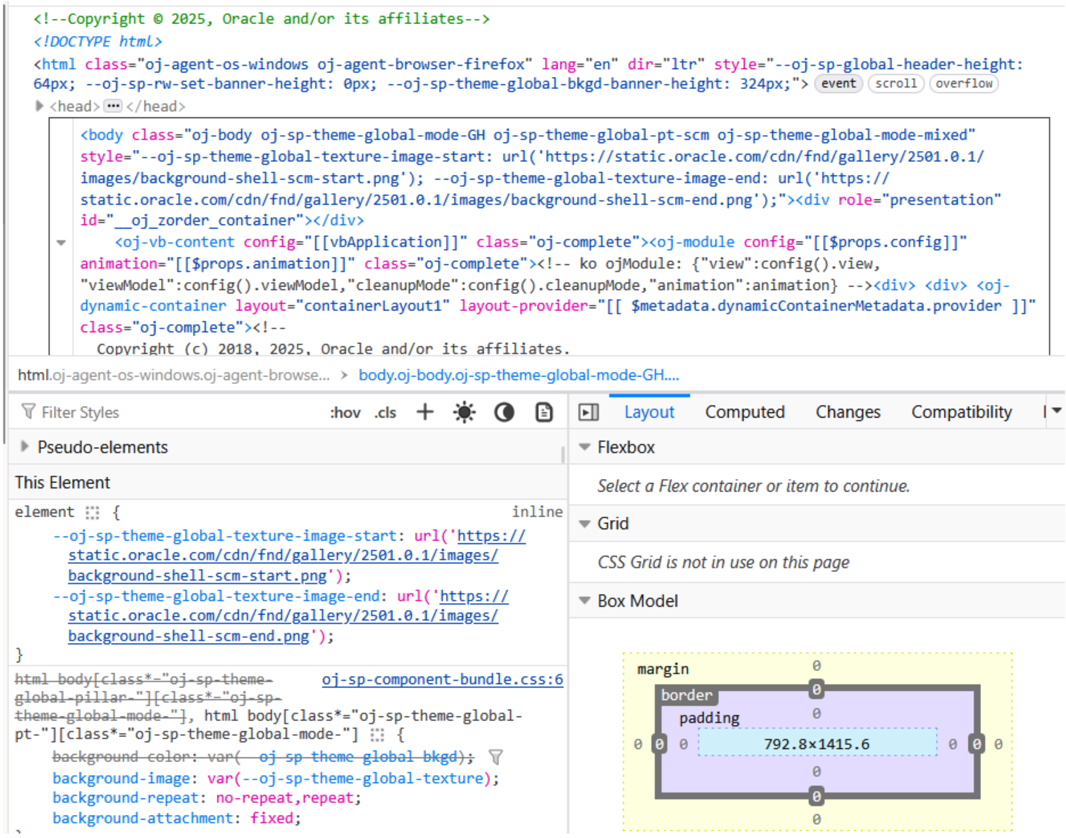
Justification: Demo from JavaScript:US1 Business Unit

Then navigate to tab “Inspector” (depending on the browser, small differences between Firefox and Chrome). Look for <Body> component.



```
<!--Copyright © 2025, Oracle and/or its affiliates-->
<!DOCTYPE html>
<html class="oj-agent-os-windows oj-agent-browser-firefox" lang="en" dir="ltr" style="--oj-sp-global-header-heig
64px; --oj-sp-rw-set-banner-height: 0px; --oj-sp-theme-global-bkgd-banner-height: 324px;"> event scroll overflow
▶ <head> ⋯ </head>
▼ <body class="oj-body oj-sp-theme-global-mode-GH oj-sp-theme-global-pt-scm oj-sp-theme-global-mode-mixed" style
   url('https://stati…/fnd/gallery/2501.0.1/images/background-shell-scm-end.
   e="presentation"></div> overflow
   config="[[vbApplication]]"> ⋯ </oj-vb-content> event overflow custom…
   uild version 2501.0.12 at 2025-01-25T12:41:16.637Z-->
   /script>
   "https://static.oracle.com/cdn/jet/17.0.0-2501.6/3rdparty/require/require
```

Then click on <Body>.

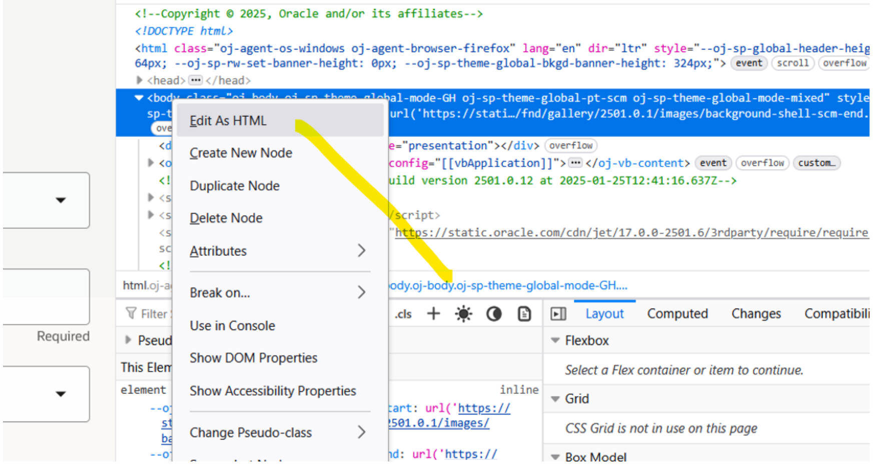


```
<!--Copyright © 2025, Oracle and/or its affiliates-->
<!DOCTYPE html>
<html class="oj-agent-os-windows oj-agent-browser-firefox" lang="en" dir="ltr" style="--oj-sp-global-header-height:
64px; --oj-sp-rw-set-banner-height: 0px; --oj-sp-theme-global-bkgd-banner-height: 324px;"> event scroll overflow
▶ <head> ⋯ </head>
   <body class="oj-body oj-sp-theme-global-mode-GH oj-sp-theme-global-pt-scm oj-sp-theme-global-mode-mixed"
   style="--oj-sp-theme-global-texture-image-start: url('https://static.oracle.com/cdn/fnd/gallery/2501.0.1/
   images/background-shell-scm-start.png'); --oj-sp-theme-global-texture-image-end: url('https://
   static.oracle.com/cdn/fnd/gallery/2501.0.1/images/background-shell-scm-end.png');"><div role="presentation"
   id="__oj_zorder_container"></div>
▼     <oj-vb-content config="[[vbApplication]]" class="oj-complete"><oj-module config="[[$props.config]]"
   animation="[[$props.animation]]" class="oj-complete"><!-- ko ojModule: {"view":config().view,
   "viewModel":config().viewModel,"cleanupMode":config().cleanupMode,"animation":animation} --><div> <div> <oj-
   dynamic-container layout="containerLayout1" layout-provider="[[ $metadata.dynamicContainerMetadata.provider ]]"
   class="oj-complete"><!--
     Copyright (c) 2018, 2025, Oracle and/or its affiliates.
```

html.oj-agent-os-windows.oj-agent-browse... › body.oj-body.oj-sp-theme-global-mode-GH....

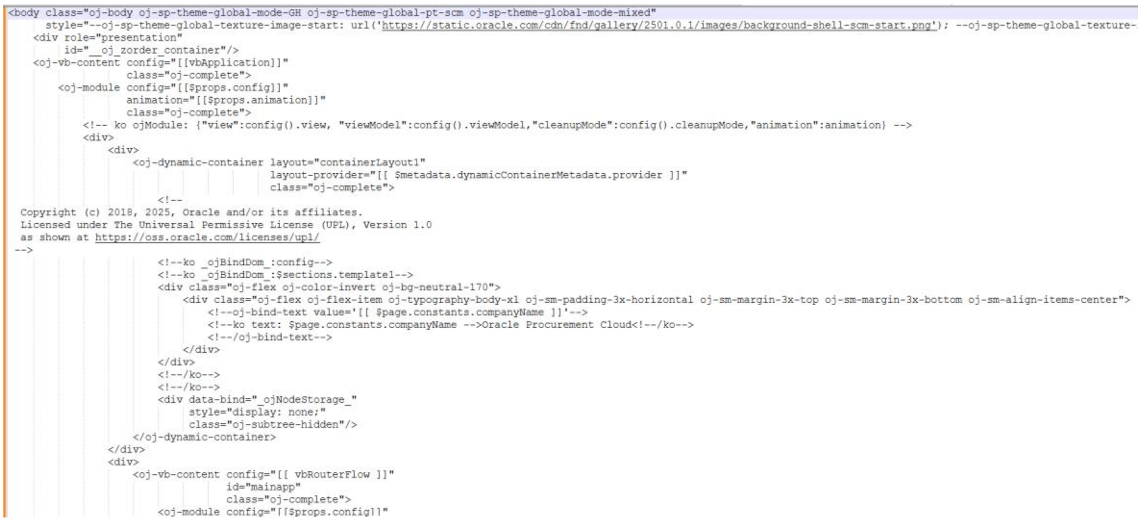
```
element ⸬ {                                                     inline
    --oj-sp-theme-global-texture-image-start: url('https://
      static.oracle.com/cdn/fnd/gallery/2501.0.1/images/
      background-shell-scm-start.png');
    --oj-sp-theme-global-texture-image-end: url('https://
      static.oracle.com/cdn/fnd/gallery/2501.0.1/images/
      background-shell-scm-end.png');
}
~~html body[class*="oj-sp-theme-~~              oj-sp-component-bundle.css:6
~~global-pillar-"][class*="oj-sp-~~
~~theme-global-mode-"]~~, html body[class*="oj-sp-theme-global-
pt-"][class*="oj-sp-theme-global-mode-"] ⸬ {
    ~~background-color: var(--oj-sp-theme-global-bkgd);~~
    background-image: var(--oj-sp-theme-global-texture);
    background-repeat: no-repeat,repeat;
    background-attachment: fixed;
```

Then right-click and click on Edit as HTML.



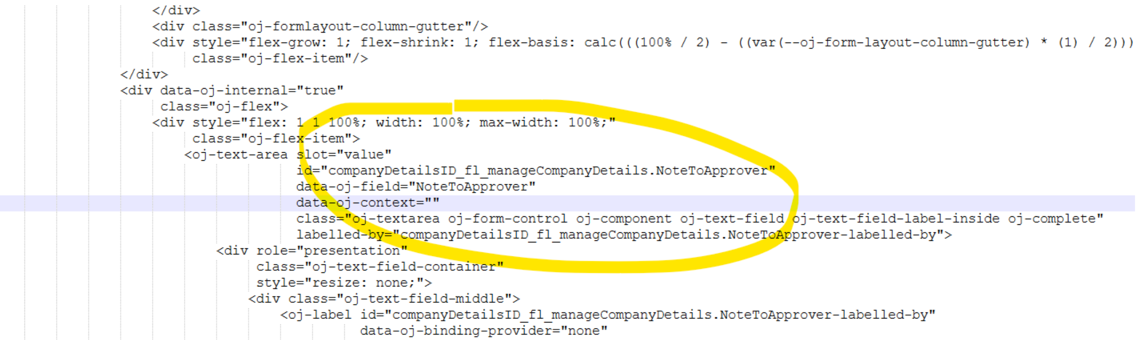
```
<!--Copyright © 2025, Oracle and/or its affiliates-->
<!DOCTYPE html>
<html class="oj-agent-os-windows oj-agent-browser-firefox" lang="en" dir="ltr" style="--oj-sp-global-header-heig
64px; --oj-sp-rw-set-banner-height: 0px; --oj-sp-theme-global-bkgd-banner-height: 324px;"> event scroll overflow
 <head> ⋯ </head>
 <body class="oj-body oj-sp-theme-global-mode-GH oj-sp-theme-global-pt-scm oj-sp-theme-global-mode-mixed" style
   sp-t                    url('https://stati…/fnd/gallery/2501.0.1/images/background-shell-scm-end.
   ove
     <d                    e="presentation"></div> overflow
     <o                    config="[[vbApplication]]"> ⋯ </oj-vb-content> event overflow custom…
     <!                    uild version 2501.0.12 at 2025-01-25T12:41:16.637Z-->
     <s
     <s                    /script>
     <s                    "https://static.oracle.com/cdn/jet/17.0.0-2501.6/3rdparty/require/require
     sc
     <!
html.oj-a                  body.oj-body.oj-sp-theme-global-mode-GH….
```

Then select the code, and copy the text in notepad, and format the text, to work on it.



```
<body class="oj-body oj-sp-theme-global-mode-GH oj-sp-theme-global-pt-scm oj-sp-theme-global-mode-mixed"
    style="--oj-sp-theme-global-texture-image-start: url('https://static.oracle.com/cdn/fnd/gallery/2501.0.1/images/background-shell-scm-start.png'); --oj-sp-theme-global-texture-
  <div role="presentation"
       id="__oj_zorder_container"/>
  <oj-vb-content config="[[vbApplication]]"
                 class="oj-complete">
      <oj-module config="[[$props.config]]"
                 animation="[[$props.animation]]"
                 class="oj-complete">
          <!-- ko ojModule: {"view":config().view, "viewModel":config().viewModel,"cleanupMode":config().cleanupMode,"animation":animation} -->
          <div>
              <div>
                  <oj-dynamic-container layout="containerLayout1"
                                        layout-provider="[[ $metadata.dynamicContainerMetadata.provider ]]"
                                        class="oj-complete">
                      <!--
 Copyright (c) 2018, 2025, Oracle and/or its affiliates.
 Licensed under The Universal Permissive License (UPL), Version 1.0
 as shown at https://oss.oracle.com/licenses/upl/
-->
                      <!--ko _ojBindDom_:config-->
                      <!--ko _ojBindDom_:$sections.template1-->
                      <div class="oj-flex oj-color-invert oj-bg-neutral-170">
                          <div class="oj-flex oj-flex-item oj-typography-body-xl oj-sm-padding-3x-horizontal oj-sm-margin-3x-top oj-sm-margin-3x-bottom oj-sm-align-items-center">
                              <!--oj-bind-text value='[[ $page.constants.companyName ]]'-->
                              <!--ko text: $page.constants.companyName -->Oracle Procurement Cloud<!--/ko-->
                              <!--/oj-bind-text-->
                          </div>
                      </div>
                      <!--/ko-->
                      <!--/ko-->
                      <div data-bind="_ojNodeStorage_"
                           style="display: none;"
                           class="oj-subtree-hidden"/>
                  </oj-dynamic-container>
              </div>
              <div>
                  <oj-vb-content config="[[ vbRouterFlow ]]"
                                 id="mainapp"
                                 class="oj-complete">
                      <oj-module config="[[$props.config]]"
```

Then, manually search for the names of the fields, example search “approver”.



```
        </div>
        <div class="oj-formlayout-column-gutter"/>
        <div style="flex-grow: 1; flex-shrink: 1; flex-basis: calc(((100% / 2) - ((var(--oj-form-layout-column-gutter) * (1) / 2)))
             class="oj-flex-item"/>
    </div>
    <div data-oj-internal="true"
         class="oj-flex">
        <div style="flex: 1 1 100%; width: 100%; max-width: 100%;"
             class="oj-flex-item">
            <oj-text-area slot="value"
                          id="companyDetailsID_fl_manageCompanyDetails.NoteToApprover"
                          data-oj-field="NoteToApprover"
                          data-oj-context=""
                          class="oj-textarea oj-form-control oj-component oj-text-field oj-text-field-label-inside oj-complete"
                          labelled-by="companyDetailsID_fl_manageCompanyDetails.NoteToApprover-labelled-by">
                <div role="presentation"
                     class="oj-text-field-container"
                     style="resize: none;">
                    <div class="oj-text-field-middle">
                        <oj-label id="companyDetailsID_fl_manageCompanyDetails.NoteToApprover-labelled-by"
                                  data-oj-binding-provider="none"
```

And you will find the id-name, which is what we need to use in JavaScript.

This is manual work.

Sample file in GitHub: body_suppliers_redwood_sample.txt

Then investigate to guess the names of the rest of the fields.

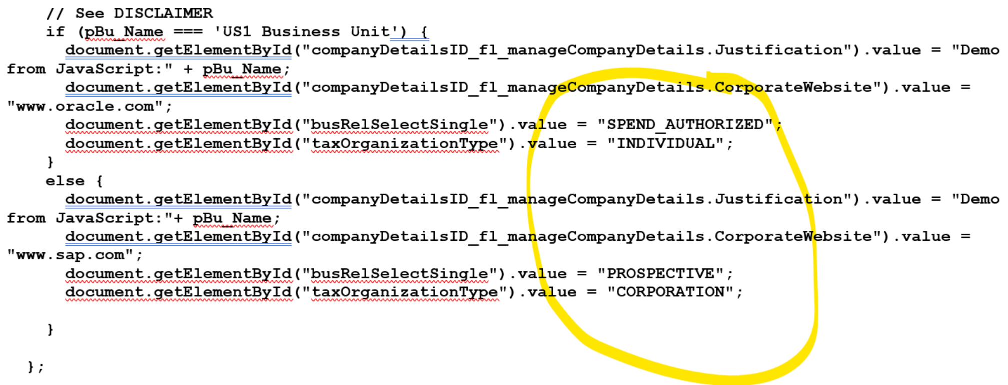
You should notice that some name fields can be “guessed”, but others seems to be dynamically generated somewhere in the code, as they show a kind of sequence in the id-name.

These fields would be a challenge to default !!!!!!!!!!

Open to ideas!!!!!!!!!!!

Important point.

Notice that this hardcode values in the JavaScript code could be perfectly mapped in lookups in OIC or somewhere and retrieved in our code.



```
    // See DISCLAIMER
    if (pBu_Name === 'US1 Business Unit') {
      document.getElementById("companyDetailsID_f1_manageCompanyDetails.Justification").value = "Demo
from JavaScript:" + pBu_Name;
      document.getElementById("companyDetailsID_f1_manageCompanyDetails.CorporateWebsite").value =
"www.oracle.com";
      document.getElementById("busRelSelectSingle").value = "SPEND_AUTHORIZED";
      document.getElementById("taxOrganizationType").value = "INDIVIDUAL";
    }
    else {
      document.getElementById("companyDetailsID_f1_manageCompanyDetails.Justification").value = "Demo
from JavaScript:"+ pBu_Name;
      document.getElementById("companyDetailsID_f1_manageCompanyDetails.CorporateWebsite").value =
"www.sap.com";
      document.getElementById("busRelSelectSingle").value = "PROSPECTIVE";
      document.getElementById("taxOrganizationType").value = "CORPORATION";

    }

  };
```

We have hardcoded for leaning purposes and do basic exercises.