

Oracle Fusion Financials

Expense Reports Redwood pages basic (and WIP...)

Developed with OIC-Visual Builder

Introduction/Goal

In Oracle Customer Connect there are many requirements for customizations in the area of (Financial modules) Expense Reports for employees in ADF-Classic pages.

Oracle has done a superb job building the Redwood framework, which help us to achieve quick results to comply requirements of the users.

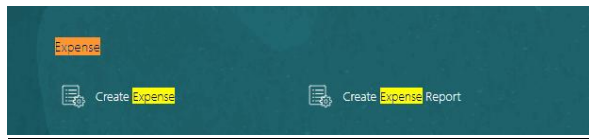
The proposal here is to show if it is feasible to build our custom Redwood pages from scratch using Visual Builder and the REST API provided by SaaS and replicate partially the standard functionality.

This approach could be used in other areas of SaaS.

We have developed these pages for learning purposes.

- 1) We based our investigation on these ADF-classic pages.

Menu access from SaaS.



Travel and Expenses

Expense Reports

Not Submitted

000313119094

demo

Updated 1 day ago

1 item 1.00 USD

Not Submitted

0158408870

Conference

Updated 2,593 days ago

3 items 910.00 USD

Available Expense Items

Actions

+ Create Item

Expense Report: 0158408870

Save

Purpose

Conference

Attachments

None

Status

Withdrawn

View report history

Report Total

910.00 USD

Payment Method

Electronic

Employer Pays You

910.00 USD

I have read and accept the corporate travel and expense policies.

Expense Items (3)

Actions

+ Create Item

Add Existing

Date	Type	Amount	Merchant	Location	Description	Attachments
10/1/17	Conference	350.00 USD			OOV Conference	Add attachment Original receipt required
10/1/17	Car Rental	200.00 USD	Hertz		Add description	Add attachment Original receipt required
10/1/17	Hotel	360.00 USD	Marriott Hotel		Add description	Add attachment Original receipt required

1) To get here.

Expense reports Version 1.0

Redwood Cookbook 2026

Search

Expense Report Detail

Redwood Cookbook 2026

0158408870

US1 Business Unit

910 USD

WITHDRAWN

000313119094

US1 Business Unit

1 USD

SAVED

Report Number

0158408870

Name

Lane, Kerry

Purpose

Conference

Report Total

910

Date

1/3/18

Currency

USD

Submit Report

Redwood Cookbook 2026

Redwood Cookbook 2026

Expenses

+ Create

Edit

Initiate notif. request

Distributions

Errors

Attendees

Attachments

Duplicate

Ref	Expense Type	Req Amount	Curr	Reim Amount	Curr	ReceiptDate	Source	Status	Business Unit	Description	Justification	Name
6	Conference	350	USD	350	USD	2017-10-01	CASH	WITHDRAWN	US1 Business Unit	OOV Conference		Lane, Kerry
7	Car Rental	200	USD	200	USD	2017-10-01	CASH	WITHDRAWN	US1 Business Unit			Lane, Kerry
8	Hotel	360	USD	360	USD	2017-10-01	CASH	WITHDRAWN	US1 Business Unit			Lane, Kerry

After reviewing our code and this documentation, perhaps you would be in a position to answer the question.

Of course, we have a long way to go to get full functionality of the current ADF-classic standard, but we will explore how far we can go.

For now, we are able to:

- Query:
 - o Expense reports and their child

- Expenses and their child
 - Attendees
- Create expense reports for basic data
- Create expenses for basic data only for one of the Templates (Travel)
- Update expenses for basic data

NOTE: in expenses create page, we have developed some list of values but not all, for testing you would have to type some values, for example the currencies.

What is the value added to building these Redwood pages?

You would have full control over the developed pages to get the following:

- Improved look and feel with Redwood templates
- Actions in bulk, selecting multiple records and applying REST API actions
- Custom additional validations
- Messages, warnings to the user
- Defaulting with custom logic
- Navigation and shortcuts
- Additional custom filtering, including Descriptive Flexfields
- Easy call to OIC integrations in the context of any record
- and whatever your users require.

Preparatory steps

Connection 1: to manage all report expenses data.

Welcome

main-start x

main-create-report

main-create-expense

sn_expense_lovs_1

fa

main

main-attendees

sn_expenseReports x

Overview

Servers

Endpoints

Headers

Source

Filter Endpoints

Endpoint

expenseReports

/expenseReports

GET

Get Many

Get all

getall_expenseReports

POST

Create

Create

create_expenseReports

/expenseReports/{expenseReports_Id}

GET

Get One

Get

get_expenseReports

PATCH

Update

Update

update_expenseReports

/expenseReports/{expenseReports_Id}/action/applyCashAdvances

POST

Create

applyCashAdvances

do_applyCashAdvances_expenseReports

/expenseReports/{expenseReports_Id}/action/processWFAction

POST

Create

processWFAction

do_processWFAction_expenseReports

/expenseReports/{expenseReports_Id}/action/revertCashAdvances

POST

Create

revertCashAdvances

do_revertCashAdvances_expenseReports

/expenseReports/{expenseReports_Id}/action/submit

POST

Create

submit

do_submit_expenseReports

Attachments

Expense

expenseNotes

ExpensePayment

ExpenseReportDff

processingDetails

Attachments

Connection 2: to manage these lists of values.

Welcome

main-start x

main-create-report

main-create-expense

sn_expense_jobs_1 x

fa

main

main-attendees

sn_expenseReports

OverviewServersEndpointsHeadersSource

Filter Endpoints

+ Endpoint

expenseTemplates

/expenseTemplates

GETGet ManyGet allget_all_expenseTemplates

/expenseTemplates/{expenseTemplates_id}

GETGet OneGetget_expenseTemplates

expenseTypes

mobileExpenseTypes

itemizedExpenseTypes

preferredAgencyLists

preferredMerchantLists

expenseTypes

Other Endpoints

Visual Builder Steps

As the process of building what you see in our code has included many sub-steps it is not possible to detail each, it would require many pages.

We will highlight some of the important points only.

- 1) Our recommendation is analyzing and test every REST API in Postman before using it in VB.
- 2) The Template selected (**Collection Detail Page Template**) is easy to work with, the navigation from parent to child.

We used these blogs to write the chapter in our book dedicated to the template:

<https://blogs.oracle.com/vbcs/post/using-the-collection-details-redwood-pattern-in-visual-builder>

<https://redwood.oracle.com/?slideIndex=0&pageId=CORED264D6D1DF66417F801890C3DCCF1499&shell=pattern-book&pattern-book=pattern-book-detail>

- 3) The rest of the tasks are just Visual Builder work.

Conclusion

We have our answer to the question “Is it possible to replicate functionality for Expenses, in a custom Dashboard?”

Up to you decide your answer.

Pages created as of version 1.0.11

- Parent page.

The screenshot displays the 'Expense Reports Version 1.0' interface. At the top, there's a header with 'Expense Reports Version 1.0' and 'Redwood Cookbook 2026'. Below this, a search bar is visible. The main content area is titled 'Expense Report Detail' and 'Redwood Cookbook 2026'. It shows a summary of the report with fields for Report Number (0158408870), Name (Lane, Kerry), Date (1/5/18), Purpose (Conference), and Report Total (910). There are also buttons for 'WITHDRAWN', 'SEND', and 'SUBMIT'. A sidebar on the left shows a list of reports with columns for Report Number, Business Unit, and Amount. The main table, titled 'Expenses', lists individual expense entries with columns for Ref, Expense Type, Rec Amount, Curr, Reim Amount, Curr, Receipt Date, Source, Status, Business Unit, Description, Justification, and Name. The table contains four rows of data, including 'Car Rental - Fuel', 'Conference', 'Car Rental', and 'Hotel'.

Ref	Expense Type	Rec Amount	Curr	Reim Amount	Curr	Receipt Date	Source	Status	Business Unit	Description	Justification	Name
2	Car Rental - Fuel	2	USD	2	USD	2025-08-20	CASH	WITHDRAWN	US1 Business Unit	demod		Lane, Kerry
6	Conference	350	USD	350	USD	2017-10-01	CASH	WITHDRAWN	US1 Business Unit	OOO Conference		Lane, Kerry
7	Car Rental	200	USD	200	USD	2017-10-01	CASH	WITHDRAWN	US1 Business Unit			Lane, Kerry
8	Hotel	360	USD	360	USD	2017-10-01	CASH	WITHDRAWN	US1 Business Unit			Lane, Kerry

- Basic create Expense Report page.

Parent page Cancel Submit

Create Report

Redwood CookBook 2026

- Basic Expense Report page.

Parent page Cancel Submit

Update Report

300000158408870

Conference

0158408870

US1 Business Unit

REQUIRED

1/3/18

910

USD

WEB

Basic Expense page.

Access from here:

Expense Reports Version 1.0

Redwood CookBook 2026

Search

0158408870 US1 Business Unit 910 USD

WITHDRAWN

000313119094 US1 Business Unit 21 USD

SAVED

Withdraw

Expense Report Detail

Redwood CookBook 2026

Report Number: 0158408870

Report Total: 910

Name: Lane, Kerry

Date: 1/3/18

Purpose: Conference

Expenses

+ Create Expense

Edit Expense

Initiate notif. request

Distributions

Ref

Expense Type

Rec Amount

Curr

Reim Amount

Curr

Parent page Cancel Submit

Create Expense for:0158408870

Redwood CookBook 2026

Template Travel Australia BU	Date 8/20/25	Type Car Rental - Fuel
Description demo	Receipt Amount 1	ReceiptCurrencyCode USD
Reimbursable Amount 1	ReimbursementCurrencyCode USD	ExpenseTypeCategoryCode
Justification demo1	Number of Passengers 3	Number of Days 3
Daily Amount 33	ReceiptMissingFlag <input type="checkbox"/>	Ticket Number tn3

- Update expense.

Access from here.

Expense Reports Version 1.0
Redwood CookBook 2026

Search

0158408870	US1 Business Unit 910 USD	WITHDRAWN
000313119094	US1 Business Unit 21 USD	SAVED

Expense Report Detail
Redwood CookBook 2026

Report Number: 0158408870
Name: Lane, Kerry
Report Total: 910
Date: 1/3/18
Purpose: Conference

Expenses

+ Create Expense Edit Expense Initiate notif. request Distributions

Ref	Expense Type	Rec Amount	Curr	Reim Amount	Curr
-----	--------------	------------	------	-------------	------

Parent page Cancel Submit

Expense Update for:0158408870

300000158408870-300000313335925

Description demodd	Passenger Name	Number of Passengers
Justification	JustificationRequiredFlag <input type="checkbox"/>	Source CASH
Billed Amount	CountryCode	Name Lane, Kerry
Date 8/20/25	Reimbursable Amount 2	Currency Name US Dollar
Business Unit US1 Business Unit	Expense Type Car Rental - Fuel	Expense Location
Amount 2	ReceiptCurrencyCode USD	Receipt Time
SequenceNumber		

Attendees.

Access from here.

Expense Report Detail

Redwood CookBook 2026

Report Number

000313119094

Name

Lane, Kerry

Saved

Report Total

Z1

Date

Purpose


demo

Currency

USD

SubmitReport

Redwood CookBook 2026



Redwood CookBook 2026

Expenses

+ Create Expense

Edit Expense

Initiate notif. request

Distributions

Errors

Attendees

Attachments

Duplicate

Ref	Expense Type	Rec Amount	Curr	Reim Amount	Curr	ReceiptDate	Source	Status	Business Unit	Description	Justification	Name	Expense
7	Dinner	20	USD	20	USD	2017-10-01	CASH	SAVED	US1 Business Unit	demo		Lane, Kerry	Expense
4	Car Rental - Fuel	1	USD	1	USD	2025-08-17	CASH	SAVED	US1 Business Unit	aa		Lane, Kerry	Travel At

<

Redwood CookBook 2026

Attendees

000313119094-7

Pending

Attendee Type	Employer	EmployerAddress	Title	Name	Amount	AttendeeEmail	CreationDate
OTHER				Juan Smith	5		2025-08-20T06:13:38.261+00:00
PUBLIC				Carlos Brown			2025-08-20T06:14:28.106+00:00
EMPLOYEE				Kerry Lane		KERRY.LANE_eqjz@oraclepdemos.com	2025-08-20T06:12:04.707+00:00

Technical

Code example	Comments
XX_DEMO_EXPENSE_REPORTS-1.0.11.zip	Used in demo. Import in OIC-VB and play.
Current at this writing is 1.0.11.	Use it as reference and make refinements at will.
Query GitHub, in case improvements are applied the naming will be 1.0.12, etc.	