

PXPLUS ON THE WEB FILE MAINTENANCE GENERATOR DEMO

DireXions 2024

FM GENERATOR DEMO

The background of the slide is a photograph of a multi-story urban building. The building has a mix of grey stone and bright red-painted sections. It features several windows, some with air conditioning units, and a prominent black metal fire escape on the right side. The sky is visible in the upper left corner.

1. Explore the Invoice Entry panel from the Demo Application
2. Examine Data Dictionary Entries
3. Use File Maintenance Generator to create a basic Invoice Header Webster+ HTML Page
4. Add Non-Standard Controls
5. Add Invoice Details Tab
6. Review final page and additional Webster+ functionality

DEMO APPLICATION INVOICE ENTRY

INVOICE ENTRY

- A 'real life' example from our demo system
- Basically a File Maintenance panel for the **Invoice Header** data file with an extra tab with a grid for maintaining the **Invoice Detail** records

Canadian Automotive Toy Store Invoice Entry

Invoice Number: 110001

Client ID: 215287 **Hardin Lighting**

Shipping

Address: 2467 Bright Goose Passage

Payment

Address:

Details

City: Lake Cowichan

Zip Code / Area Code: V4J 2G0

State / Province: BC

Country: Canada

Write Delete Clear Exit

GOAL

Use the File Maintenance Generator to produce a functioning Webster+ page with the same or similar functionality

INVOICE ENTRY – MAIN PANEL

Canadian Automotive
Toy Store

Invoice Entry

Invoice Number: 110001

Client ID: 215287

Hardin Lighting

KEY

- Invoice Number (InvoiceNumber\$)

NEW INVOICE BUTTON

- Begins a new invoice

BROWSE BUTTONS

- Located beside first key segment

CUSTOMER EDIT BUTTON

- Launches Customer Maintenance dialog

CUSTOMER NAME

- From Customer data file (blue)

INVOICE ENTRY – MAIN PANEL CONT'D

The image shows a software interface for invoice entry. On the left is a vertical sidebar with three tabs: 'Shipping', 'Payment', and 'Details'. The 'Details' tab is currently selected and highlighted in a darker blue. To the right of the sidebar, under the heading 'FOLDER', there is a list of items: 'Shipping', 'Payment', and 'Details'. Below this, under the heading 'ACTION BUTTONS', there is a list of buttons: 'Write', 'Delete', 'Clear', and 'Exit'. The buttons are arranged horizontally at the bottom right of the main panel area.

FOLDER

- Sidebar Folder at bottom of Main Panel
- Three tabs
 - Shipping
 - Payment
 - Details

ACTION BUTTONS

- Located at Bottom-Right

Write Delete Clear Exit

INVOICE ENTRY – SHIPPING TAB

Shipping	Address:	<input type="text" value="2467 Bright Goose Passage"/>
Payment	Address:	<input type="text"/>
Details	City:	<input type="text" value="Lake Cowichan"/>
	Zip Code / Area Code:	<input type="text" value="V4J 2G0"/>
	State / Province:	<input type="text" value="BC"/> 
	Country:	Canada 

ADDRESS FIELDS

- 6 Address Fields from Invoice Header file
- Country is read only

GOOGLE MAP

- Hover over button to map the address using Google Maps

INVOICE ENTRY – PAYMENT TAB

Shipping	Payment Type:	Visa	Invoice Date:	10 Jul 2024
Payment	Taxable Amount:	79.50	Due Date:	09 Aug 2024
Details	Tax:	9.54	Date Paid:	
	Sales Rep Id:	CM  Chuck Mitchell		

REMAINING FIELDS

- The rest of the Fields from the Invoice Header file

PAYMENT TYPE

- Entry is a drop box

SALESREP NAME

- Sales Rep Name is in Blue text

INVOICE ENTRY – DETAILS TAB

Shipping						
Payment						
Details						
	Product	Item Description	Price	Qty	Amount	
1	CAR-1324-RED	Safari Jeep - Red	9.75	2	\$19.50	
2	CAR-1324-RED	Safari Jeep - Red XXXXXXXX	9.75	1	\$9.75	
3	SUV-1421-GRN	Compact SUV - Green	10.00	1	\$10.00	
4	VAN-4111-ROS	Panel Van - Pale Rose	9.25	1	\$9.25	
5	CAR-1412-SEA	Bug - Seagreen	8.00	1	\$8.00	
6	VAN-4111-ROS	Panel Van - Pale Rose	9.25	1	\$9.25	
7	SPR-4224-PNK	2 Person Sporty City Car - Fuschia	13.75	1	\$13.75	
8			0.00	0	\$0.00	
			Net Invoice:		\$79.50	

DETAILS GRID

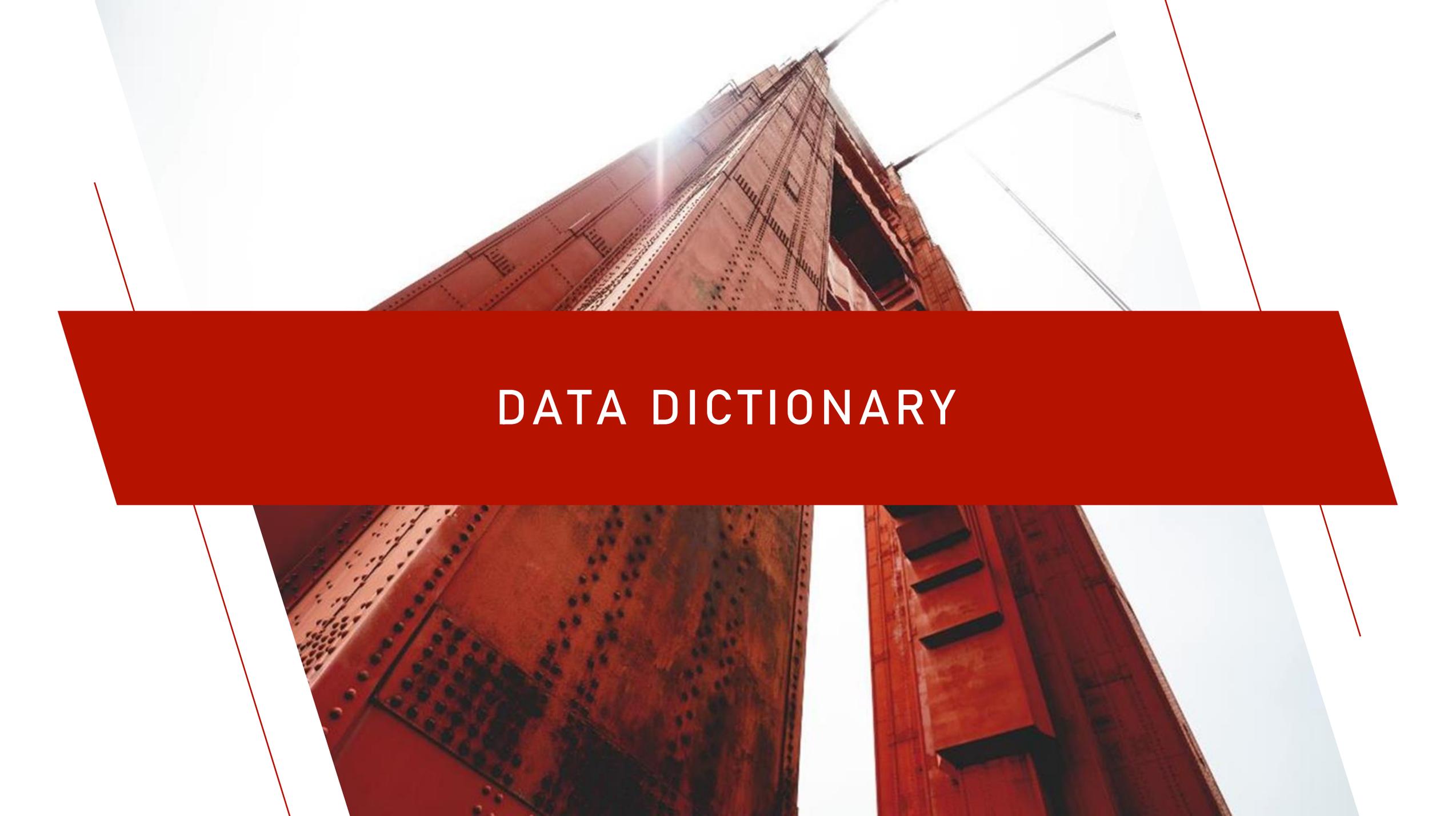
- Maintains data for the individual invoice lines (Invoice Detail data file)

INSERT LINE / DELETE LINE

- Grid side buttons

NET INVOICE

- Total of the Invoice (sum of the Amount column in the grid)



DATA DICTIONARY

INVOICE HEADER ELEMENTS

The screenshot shows the PVX PLUS Data Dictionary Maintenance application. The main window title is "Data Dictionary Maintenance". The interface includes a menu bar (File, Edit, Options, Utilities, Projects, NOMADS Tools, Wiki Info), a toolbar with various actions like New, Update File, Copy, Rename, Delete, Bulk Edit, Define Keys, IO Procedure, Export, Import, Data, Print, Export, Import, and File Splitting, and a sidebar with "Info" and "Elements" tabs.

Key information displayed:

- Name: Invoice Header
- Description: Invoice Header File
- Last File Change: 2024/08/29 11:53-Susan
- Last Physical Update: 2024/08/29 11:53-Susan

Options for the data elements:

- Non-Normalized
- Record Format: [Dropdown]
- Define [Button]
- Search Grid for: (F3) [Text Box]

Field	Dtl	Field Name	Data Class	Description	Type	Len	Format	Display	Ext	Req	U/C	R/O
1		InvoiceNumber		Invoice Number	Str	6	Delimited	000000	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2		Clientid	CLIENTIDNUMBER	Client ID	Str	6	Delimited	000000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3		Address1		Address	Str	40	Delimited		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4		Address2		Address	Str	40	Delimited		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5		City		City	Str	40	Delimited		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6		State	STATE	State / Province	Str	2	Delimited		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7		Country	COUNTRY_DEF	Country	Str	10	Delimited		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8		ZipCode		Zip Code / Area C	Str	10	Delimited		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9		InvoiceDate	DATE	Invoice Date	Str	8	Delimited		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10		DueDate	DATE	Due Date	Str	8	Delimited		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11		DatePaid	DATE	Date Paid	Str	8	Delimited		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12		Amount	MONEY	Taxable Amount	Num	10.2	Delimited	##,###,##0.00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13		Tax	MONEY	Tax	Num	10.2	Delimited	##,###,##0.00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14		PaymentType	PAYMENTTYPE	Payment Type	Str	1	Delimited		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15		SalesRep	SALESREP	Sales Rep Id	Str	3	Delimited		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16									<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PRIMARY KEY

- InvoiceNumber\$

DATA ELEMENTS

- Information from the Data Dictionary used when generating a File Maintenance panel
 - Description used for Prompts etc.

DATA CLASSES

- **ClientID** element has the **CLIENTNUMBER** Data Class
- **PAYMENTTYPE** is a Drop Box Data Class

CLIENTNUMBER MULTILINE DATA CLASS

The screenshot shows the 'Data Class Definitions' window in PVX PLUS. The class name is 'CLIENTIDNUMBER', control type is 'Multi Line', and description is 'Client ID'. It is a dynamic field with an internal data type of 'String' and an internal size of 6. The 'Extended Validation' section is active, showing it is linked to the 'Client Master File' table with the key 'ClientIDKey: Client ID' and the descriptive field 'ClientName\$'. The 'Populate All Fields' checkbox is unchecked. The bottom of the window has buttons for 'Popup Menu', 'Write', 'Delete', 'Clear', and 'Exit'.

Class Name: CLIENTIDNUMBER
Control Type: Multi Line
Description: Fixed Client ID
***Dynamic:**
Internal Data Type: String
Internal Size: 6

Data Validation / Display Logic
Validator:
Formatter:
Rules: Fixed

Extended Validation
 Use Extended Validation
Table: Client Master File
Key: ClientIDKey: Client ID
Descriptive Field: Fixed ClientName\$
 Populate All Fields
Error if Invalid:
Logic if not found:

Buttons: Popup Menu, Write, Delete, Clear, Exit

EXTENDED VALIDATION

- Whenever an element has the **CLIENTNUMBER** Data Class, the **Descriptive Field** will be available in a **SHOW.element_name\$** variable
- E.g. **SHOW.ClientID\$**

QUERY

- Defined as **CLIENT_QRY** panel in **scrnlib.en**

NOTE

- SALESREP** Data Class also uses Extended Validation to supply the SalesRep's Name

PAYMENTTYPE DROP BOX DATA CLASS

DROP BOX CONTROL TYPE

- Control will be rendered as a drop box when File Maintenance Panel is generated

PVX PLUS TECHNOLOGIES LTD. Data Class Definitions

Class Name: PAYMENTTYPE Last Class Change: 2024-07-08 14:12:55

Control Type: Drop Box

Description: Fixed Payment Type

*Dynamic Internal Data Type: String Internal Size: 1

Display

Properties

Drop Box Width: 10.00 Drop Box Height: 4.00

*Display Format: Fixed

***List Values** Load From File

Fixed

- Cash
- Cheque
- MasterCard
- Visa

***Visual Class** Expression

***iNomads Class** Expression

Buttons: Popup Menu, Write, Delete, Clear, Exit

PVX PLUS TECHNOLOGIES LTD. Data Class Definitions

Class Name: PAYMENTTYPE Last Class Change: 2024-07-08 14:12:55

Control Type: Drop Box

Description: Fixed Payment Type

*Dynamic Internal Data Type: String Internal Size: 1

Display

***Default Setting**

Fixed C

***Translation**

Translate Load from File?

Fixed

Table Value Length: 1

Value	Translation
Cash	\$
Cheque	C
MasterCard	M
Visa	V

Buttons: Up, Down, Popup Menu, Write, Delete, Clear, Exit

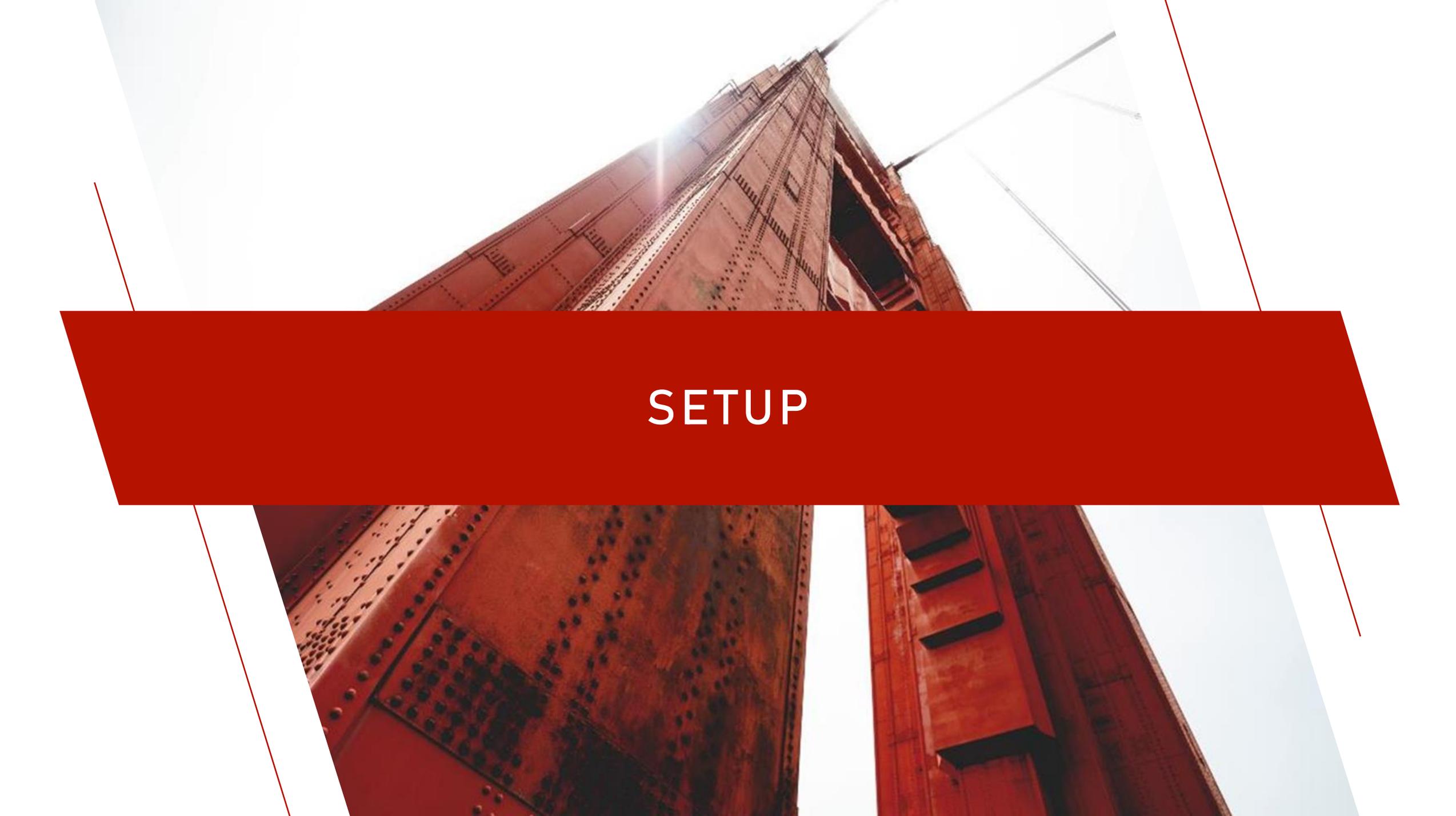
INVOICE DETAIL ELEMENTS

PRIMARY KEY

- InvoiceNumber\$ + LineNumber\$
- Can be many Detail records associated with each Header record

The screenshot shows the 'Data Dictionary Maintenance' window in PVX PLUS TECHNOLOGIES LTD. The window title bar includes 'File Edit Options Utilities Projects NOMADS Tools Wiki Info'. The main menu bar contains 'New', 'Update File', 'Update Files', 'Copy', 'Rename', 'Delete', 'Bulk Edit', 'Define Keys', 'IO Procedure', 'Export', 'Import', 'Data', 'Print', 'Export', 'Import', and 'File Splitting'. The 'Name' field is set to 'Invoice Detail' and the 'Description' is 'Invoice Detail file'. The 'Last File Change' is '2024/09/10 11:49-Susan' and the 'Last Physical Update' is '2024/09/10 11:50-Susan'. The 'Record Format' is set to 'Non-Normalized'. The 'Data Elements' table is as follows:

Field	Dtl	Field Name	Data Class	Description	Type	Len	Format	Display	Ext	Req	U/C	R/O
1		InvoiceNumber		Invoice Number	Str	6	Delimited	000000	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2		LineNumber		Invoice Line Numb	Str	4	Delimited	0000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3		ProductCode		Product Code	Str	12	Delimited		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4		ItemDescription		Item Description	Str	40	Delimited		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5		Price	MONEY	Price	Num	10.2	Delimited	##,###,##0.00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6		ItemQty		Item Quantity	Num	6.0	Delimited	###,##0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7									<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



SETUP

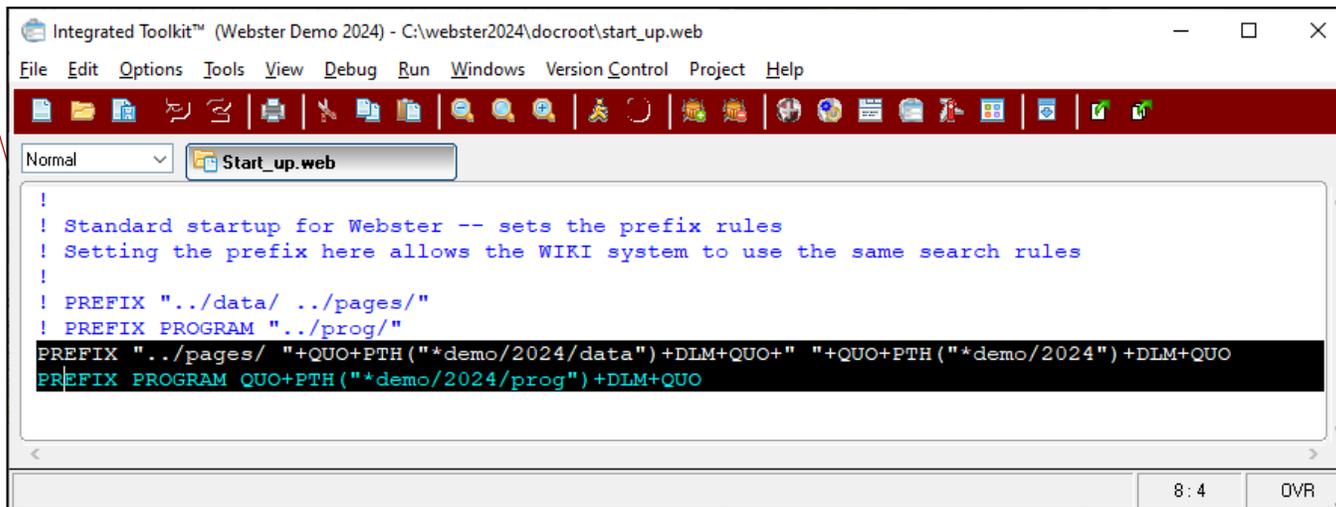
TWO PROJECTS DEFINED

1. DEMO 2024 PROJECT

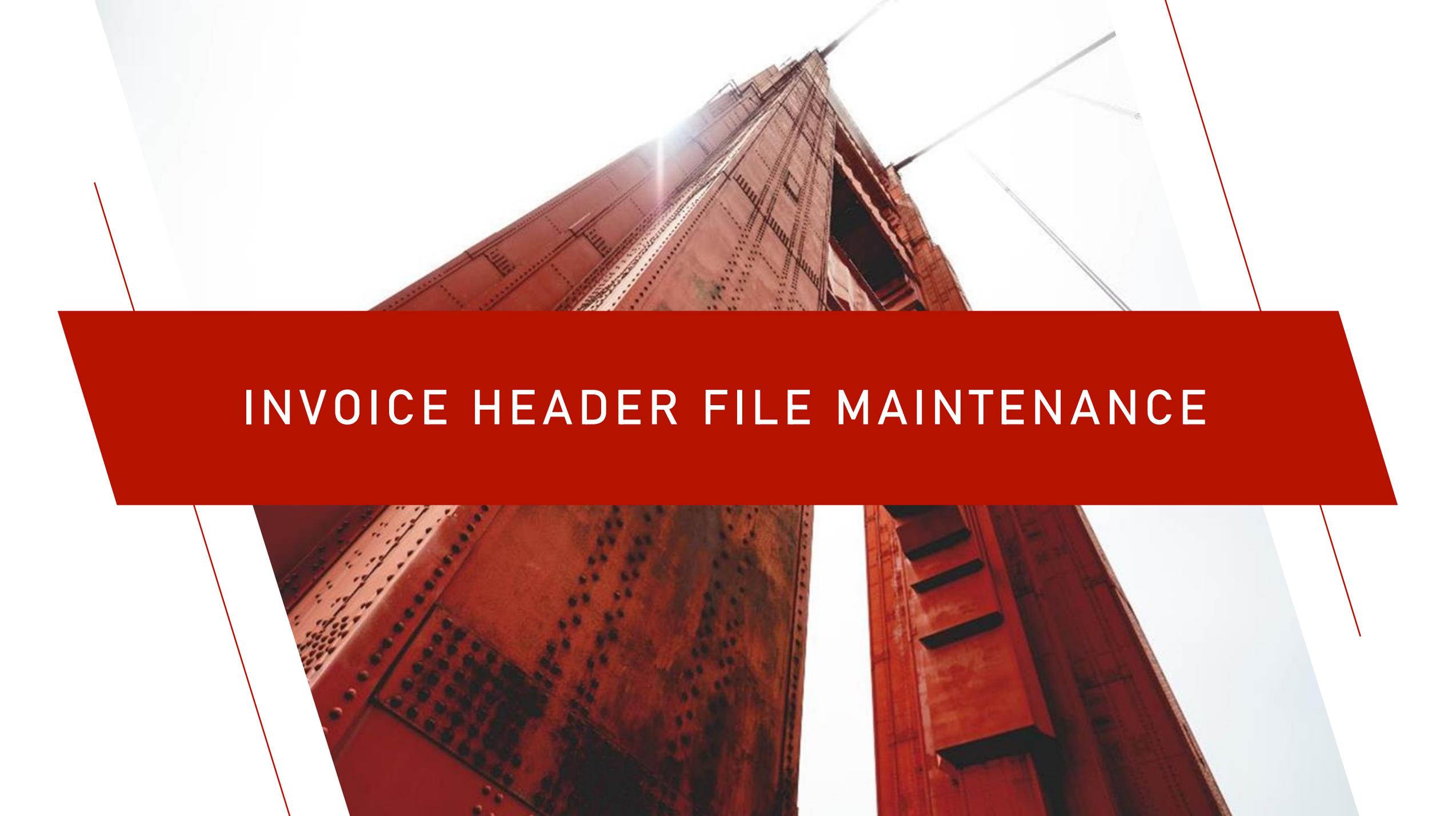
- Project Directory points to the location where the Demo Application is installed
- Title Bar Color is **Default** (light gray)
- Project Default Library is **scrnlib.en**

2. WEBSTER DEMO 2024 PROJECT

- Project Directory points to the location where Webster+ was installed
- Title Bar Color is **Dark Red**
- Using the *IT Editor task to display the **start_up_web program** (in the Webster+ install's docroot directory) we can see that it has been edited so the PREFIX commands point to the Demo Application directories
- Use the **Launch Webster+ Using EZWeb** task to launch an EZWeb Server on local machine using port **8088**



```
! Standard startup for Webster -- sets the prefix rules
! Setting the prefix here allows the WIKI system to use the same search rules
! PREFIX "../data/ ../pages/"
! PREFIX PROGRAM "../prog/"
PREFIX "../pages/ " +QUO+PTH("*demo/2024/data") +DLM+QUO+" " +QUO+PTH("*demo/2024") +DLM+QUO
PREFIX PROGRAM QUO+PTH("*demo/2024/prog") +DLM+QUO
```



INVOICE HEADER FILE MAINTENANCE

GETTING STARTED

Object Name	Type	Title	Revised Date	By
ie	(Dh)	Invoice Entry	2024/09/10 10:52	Susan (File Maint)
ie.1	(D)	Invoice Entry (Tab 1: Shipping)	2024/09/10 10:52	Susan (File Maint)
ie.2	(D)	Invoice Entry (Tab 2: Payment)	2024/09/10 10:52	Susan (File Maint)
ie.3	(D)	Invoice Entry (Tab 3: Details)	2024/09/10 10:52	Susan (File Maint)
Dept_Mnt	(D)	Department Maintenance	2024/09/05 09:42	Susan
samples	(Dh)	Samples	2024/09/03 10:45	Susan (File Maint)
INVOICEENT.1	(D)	Invoice Entry (Tab 1: Shipping)	2024/08/29 17:24	Susan (File Maint)
INVOICEENT.2	(D)	Invoice Entry (Tab 2: Payments)	2024/08/29 17:24	Susan (File Maint)
INVOICEENT.3	(D)	Invoice Entry (Tab 3: Details)	2024/08/29 17:24	Susan (File Maint)
INVOICEENTRY	(Dh)	Invoice Entry	2024/08/29 17:24	Susan (File Maint)
Inv_Mnt3	(D)	File Maint for Invoice Header (Panel 3)	2024/08/29 11:38	Susan
Soinvoice	(Dh)	Invoice Entry	2024/08/28 15:59	Susan (File Maint)
Soinvoice.1	(D)	Invoice Entry (Tab 1: Shipping)	2024/08/28 15:59	Susan (File Maint)
Soinvoice.2	(D)	Invoice Entry (Tab 2: Payment)	2024/08/28 15:59	Susan (File Maint)
Soinvoice.3	(D)	Invoice Entry (Tab 3: Details)	2024/08/28 15:59	Susan (File Maint)
cdept	(D)	File Maintenance for Department	2024/08/28 09:37	Susan (Generated)
deptc	(D)	File Maintenance for Department	2024/08/27 16:55	Susan (Generated)

LIBRARY OBJECT SELECTION

- Press File Maintenance button
- Enter **InvoiceEntry** as Name and press **Ok** button

New/Existing File Maint

Name:

Ok Cancel

LIBRARY OBJECT SELECTION WEBSTER+ MENU

- Webster+ Pages Directory
 - **c:\webster2024\pages**
- Webster Preview URL
 - **http://127.0.0.1:8088**

File Maintenance Generator for panel: InvoiceEntry

Welcome to the File Maintenance Generator for panel: InvoiceEntry.

This generator will walk you through the steps to automatically create file maintenance panels and/or HTML pages with built-in editing and browse functionality based on data files defined in a PkPlus Data Dictionary. Panels are built with controls representing the data fields described within the Data Dictionary and Data Class Objects. The Data Dictionary also supplies key structure information to enable accessing and writing the data records. Element names, prompts, default values, validation rules, print formats, associated queries and help, as well as control types, are derived from dictionary and class definitions.

A single panel or a panel containing a folder with multiple tabs can be created using the standard two-column layout or an advanced layout of up to four columns. Options are provided for selecting edit and browse button positions and including additional objects. Maintenance behavior is defined using object properties. Non-File Maintenance panels may also be generated.

Once panels are generated, the NOMADS Panel Screen Designer may be used for any additional changes or fine-tuning.

[How to Create File Maintenance Panels](#)

[To access the legacy version of the File Maintenance Generator click here.](#)

To continue, click Next

Preview NOMADS Panel Back **Next** Cancel

Press Next

STEP 1: OBJECT DEFINITION

File Maintenance Generator for panel: InvoiceEntry

Step 1: File Maintenance Object Definition

1 Definition 2 Properties 3 Screen 4 Controls 5 Keys 6 Fields 7 Finish

Select the file maintenance template and layout format

File Maintenance Template: None Layout: Enhanced

Select the type of form(s) to create

Form Type: NOMADS Panel HTML Page Non-File Maintenance Form

Select the table from the data dictionary

Table Name: Invoice Header Panel Title Symbol:

Panel Title: Invoice Entry

Enter the maintenance object

File Maintenance Object: Use the Standard File Maintenance Object Inquiry Only

Object Name: *win/fm_maint.pvc

Enter the optional HTML interface program

Interface Program:

Preview HTML Page Back Next Finish Cancel

Press Next

NOMADS PANEL

- Uncheck this checkbox and the **HTML Page** checkbox will automatically be checked

TABLE NAME

- Select **Invoice Header** from the lookup
- Panel Title defaults to Invoice Header File Maintenance

PANEL TITLE

- Change to **Invoice Entry**

STEP 2: OBJECT PROPERTIES

ALL INPUTS DISABLED

- Accepted Standard File Maintenance object
- If desired, values may be set via %NOMADS properties

Press Next

File Maintenance Generator for panel: InvoiceEntry

Step 2: File Maintenance Object Properties

1 Definition 2 Properties 3 Screen 4 Controls 5 Keys 6 Fields 7 Finish

NOTE: If using an existing file maintenance object, these values are already defined as indicated within the object and are therefore not editable.

Select the update behavior

Select the record locking behavior when a record is updated.

Review Before Write Lock Record No Record Lock

Select the screen behavior

Select the screen behavior on a new record. Select the screen behavior after writing or deleting a record.

Do Not Clear Fields Auto-Clear All Fields Do Not Clear Fields Auto-Clear All Fields

Select the screen behavior for saving changes.

Standard Save Auto-Save Changes

Select record message options

Select the messages that will display when a record is created or when a record is deleted.

Confirm New Record Acknowledge Writes Confirm Delete Request Acknowledge Deletes

Preview NOMADS Panel Back Next Finish Cancel

STEP 3: SCREEN LAYOUT

LOCATION OF BROWSE BUTTONS

- Change drop box to **Beside Key**

LOCATION OF ACTION BUTTONS

- Leave drop box as **Bottom Right**

Press Next

File Maintenance Generator for panel: InvoiceEntry

Step 3: File Maintenance Screen Layout

1 Definition 2 Properties 3 **Screen** 4 Controls 5 Keys 6 Fields 7 Finish

Location of browse buttons

Beside Key Tab Stops

Location of action buttons

Bottom Right Tab Stops

Optional Include HTML page HTML **Position** Top

Webster+ Template

Panel Notes

Additional Buttons

Preview HTML Page

STEP 4: CONTROL SETTINGS

File Maintenance Generator for panel: InvoiceEntry

Step 4: File Maintenance Control Settings

1 Definition 2 Properties 3 Screen 4 Controls 5 Keys 6 Fields 7 Finish

Select field and page layout options

Prompt Alignment: Append Colon on Prompt

Required Fields:

REQUIRED FIELDS

- Change dropbox to **Do not indicate required fields**

Preview HTML Page

Press Next

STEP 5: KEY SETTINGS

ALL DISABLED

- Options only apply to files with multi-part keys

Press Next

File Maintenance Generator for panel: InvoiceEntry

Step 5: File Maintenance Key Settings

1 Definition 2 Properties 3 Screen 4 Controls 5 Keys 6 Fields 7 Finish

NOTE: The following options do not apply for single-segment keys or Non-File Maintenance Forms.

Primary Key Field(s) InvoiceNumber

Record Query Library: scrnlib.* Panel: [empty]
Bitmap: !Binoculars HTML Symbol: binoculars

Fixed Key Segment
Indicate if the data being maintained includes some sort of a fixed value (such as a company code for example) in the first segment of the key. If so, indicate whether this value should be disabled or hidden and enter the value.

Lock First Segment Behavior: Disable Locked Segment Hide Locked Segment

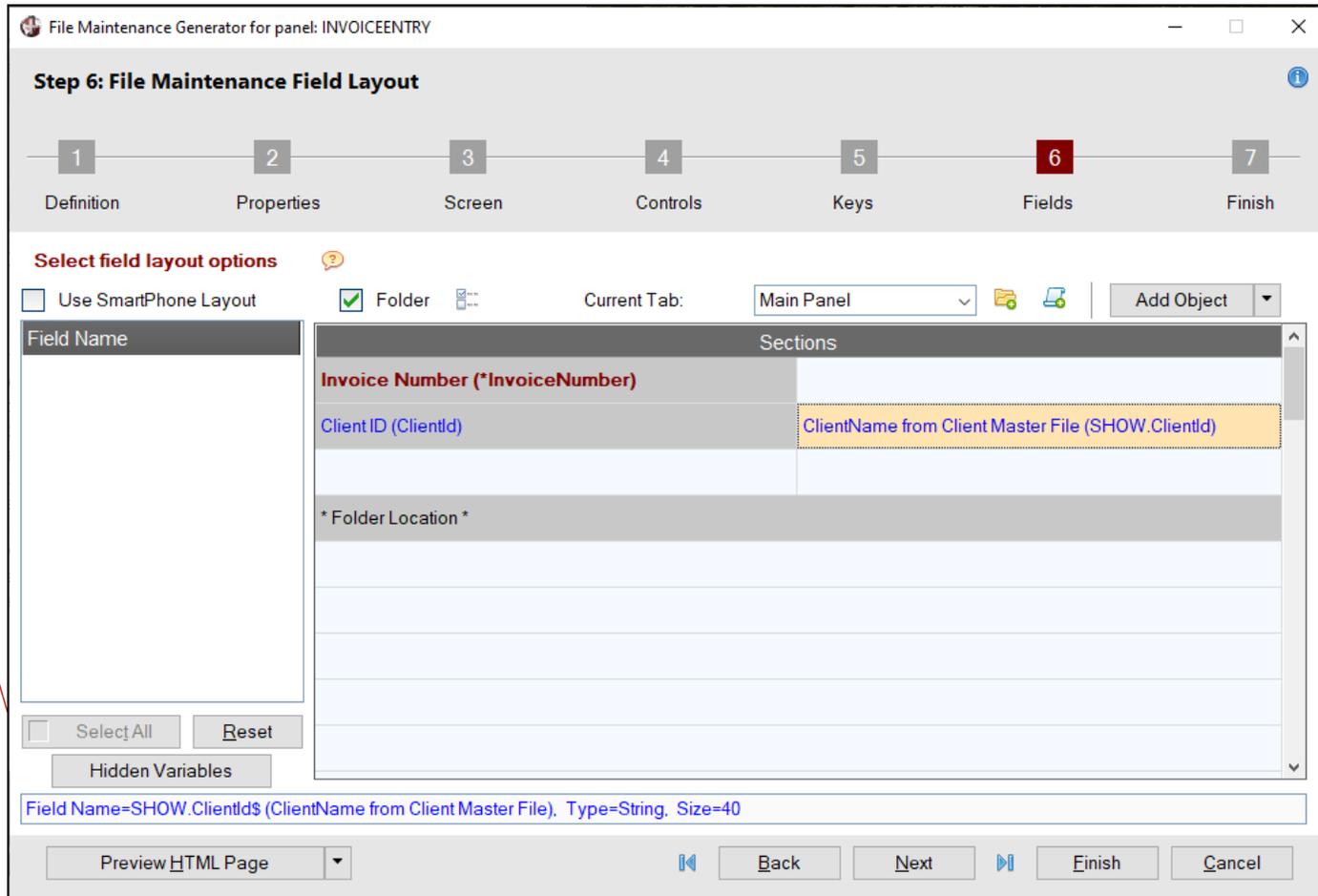
Value to Pre-load: Fixed Expression [empty text box]

Cross Reference Key Field
Indicate if there is a unique, single segment key that is to be maintained automatically.

Field that Contains 'Reference Key': [empty dropdown]

Preview HTML Page [empty dropdown] [Back] [Next] [Finish] [Cancel]

STEP 6: FIELD LAYOUT



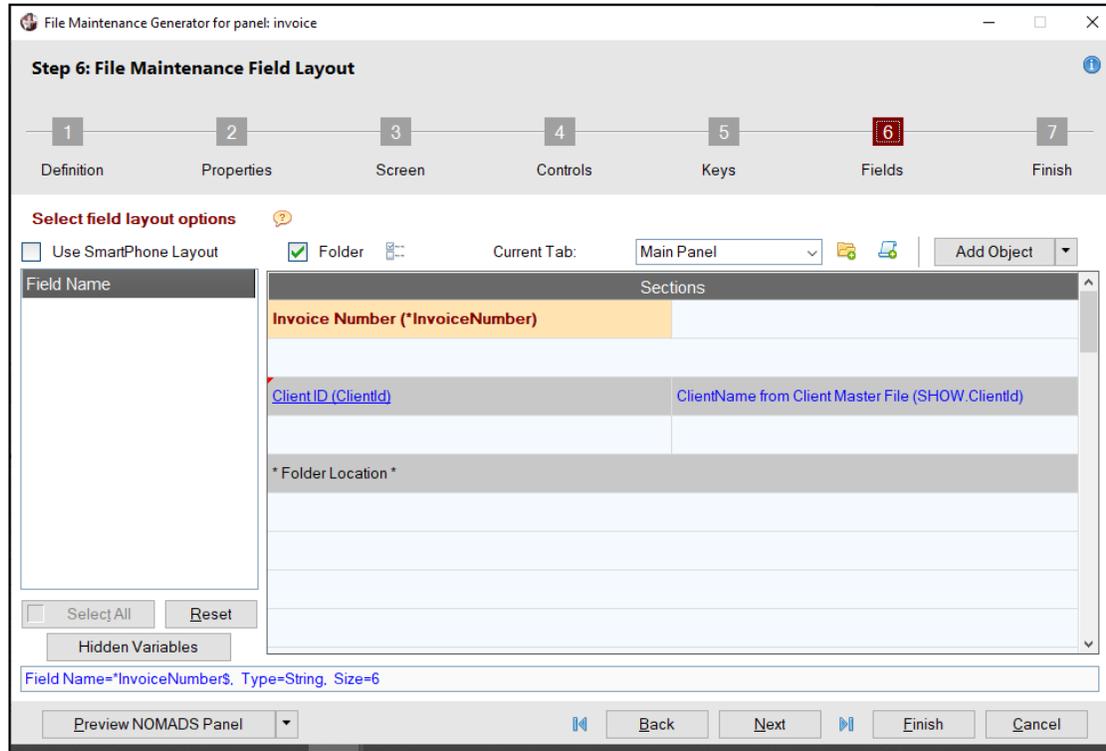
INVOICE NUMBER

- Already in place as the key
- Notice **2 SHOW.xxx\$ variables**

DRAG FIELDS

- Drag the **Client ID** field from the Field Name list box and drop it into the second row, first section of the layout grid
- Drag the **SHOW.ClientID** field into the layout grid beside the ClientID field (row two, second section)

STEP 6: DEFINE FOLDER



FOLDER OPTIONS

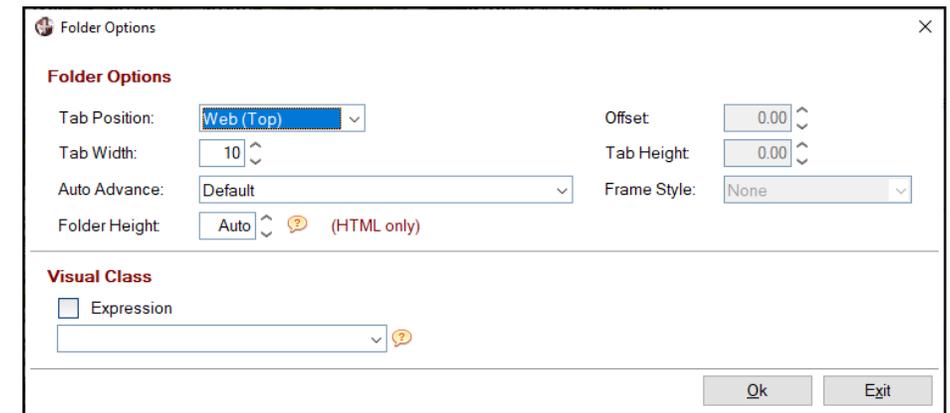
- Press the **Folder Options** button
- Change the Tab Position to **Web (Top)**

FOLDER

- Check **Folder** check box

FOLDER LOCATION

- Right-Click to make fifth row a Full Section
- Right-Click to define **Folder Location**



Press Ok

STEP 6: SHIPPING TAB

CURRENT TAB

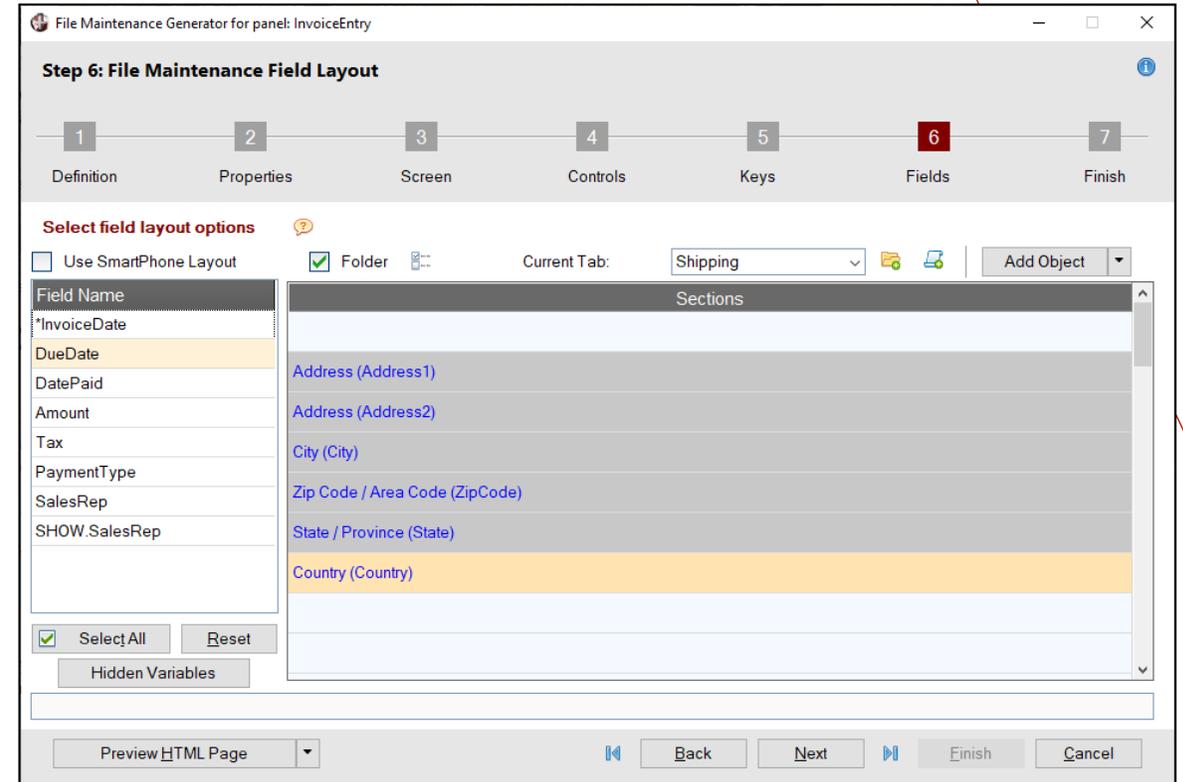
- Type **Shipping** into the variable drop box and press Tab or Enter
 - Layout Grid will clear

SWITCH TO FULL SECTIONS

- Right-Click on first row and switch to Full Sections from the popup menu
- All rows should switch to Full Sections

DRAG ADDRESS FIELDS

- Beginning in row two, drag the remaining 6 address fields as shown



STEP 6: PAYMENT TAB

CURRENT TAB

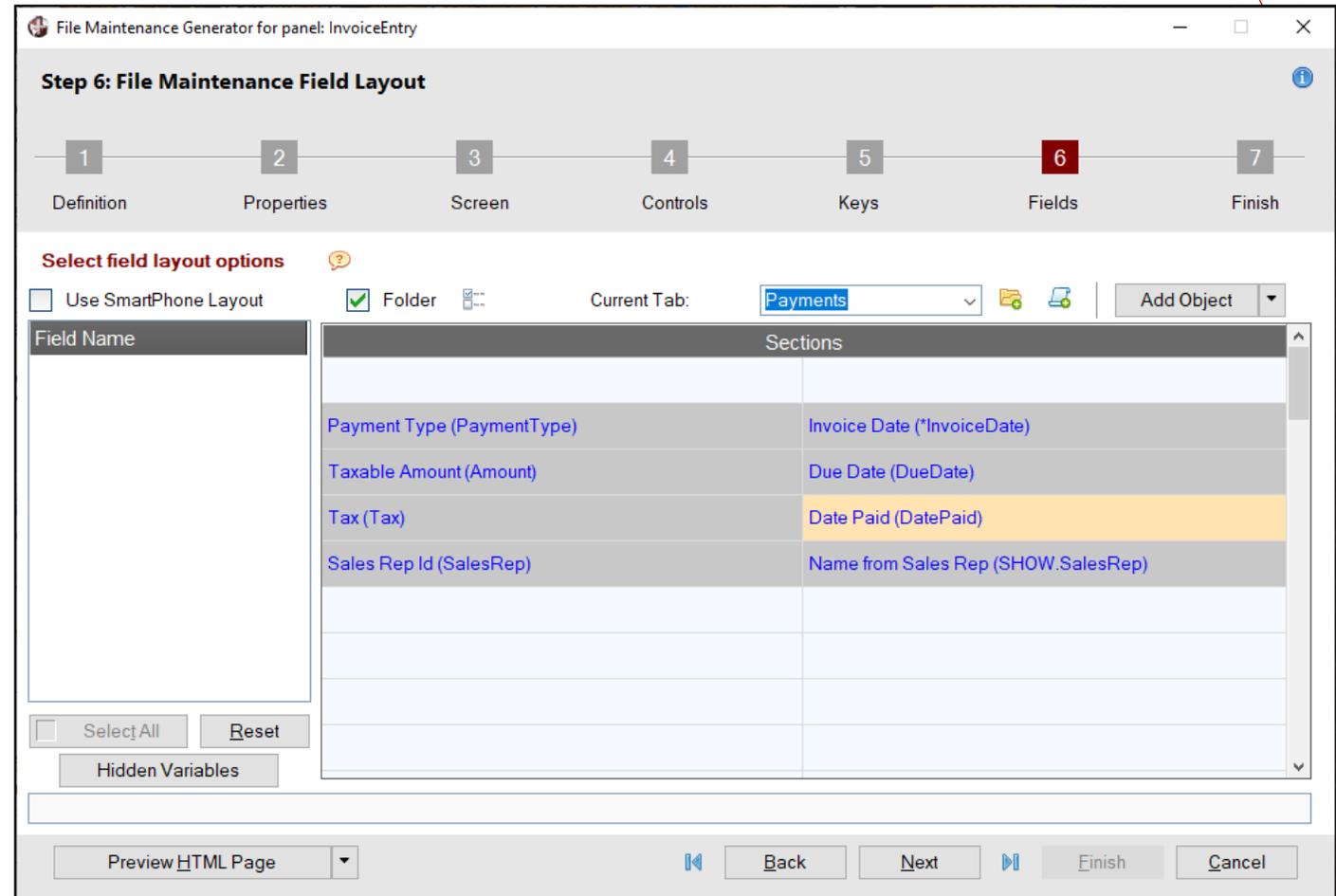
- Type **Payment** into the variable drop box and press Enter
 - Layout Grid will clear again

DRAG REMAINING FIELDS

- Drag the remaining 8 fields as shown

PREVIEW HTML PAGE

Press Next



STEP 7: COMPLETION

Review Selections made in the previous steps

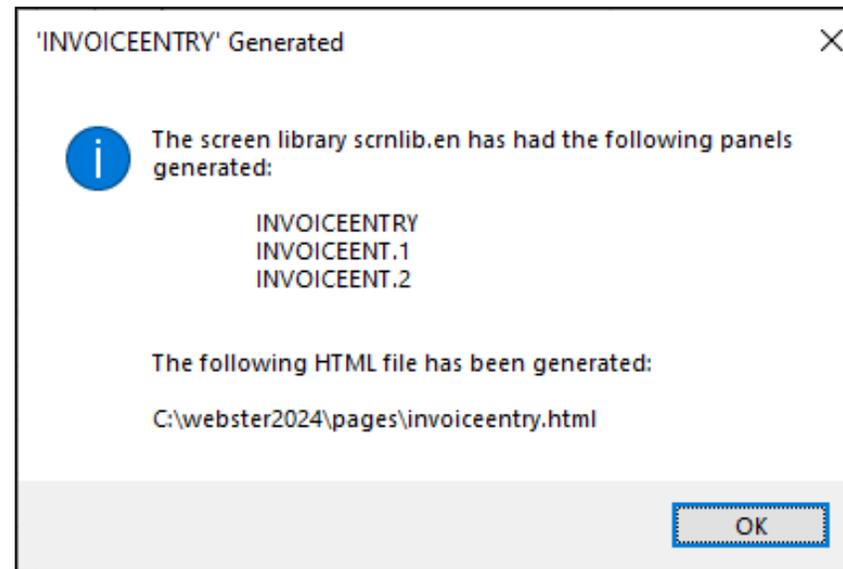
CHECK CONFIRMATION OPTION

- Check the **Confirm file an panels updated on completion** check box

Press Finish

CONFIRMATION

- Confirmation dialog appears
- NOMADS panels still created
 - Regenerate records
- Press **OK** button



A low-angle, upward-looking photograph of a large, rusted steel structure, likely a bridge or industrial building. The structure is composed of heavy steel beams and plates, with numerous rivets visible. The rust is a deep, dark red color. The sky is a pale, clear blue. A prominent red banner with a slight perspective is overlaid horizontally across the middle of the image. The banner contains the text "CHECK RESULTS IN WEBSTER+" in white, bold, uppercase letters. The overall composition is dynamic, with strong geometric lines and a sense of height and scale.

CHECK RESULTS IN WEBSTER+

SHIPPING TAB IN WEBSTER

Navigate to **127.0.0.1:8088/webster.pxp?pg\$=invoiceentry** in a browser

Invoice Entry

Invoice Number: 100002

Client ID: 890036 Rusk Office Supplies

Shipping Payments

Address: 3750 Tawny Inlet

Address: Suite 25

City: Louisburg Road

Zip Code / Area Code: B6X 6L5

State / Province: NS

Country: Canada

Write Delete Clear Exit

PAYMENT TAB IN WEBSTER

The screenshot shows a web browser window with the following details:

- Browser Tab:** Invoice Entry
- Address Bar:** 127.0.0.1:8088/webster.pxp?pg\$=invoiceentry
- Navigation Bar:** PVX Plus Technologies, Google, CBC News - Latest..., Yahoo - login, PxPlus User Forum, Commute Home, KnowBe4, Adobe Acrobat
- Page Header:** PVX PLUS TECHNOLOGIES LTD. « Webster Plus
- Left Sidebar:** Inspector, Setup, Logoff
- Main Content Area:**
 - Section:** Invoice Entry
 - Invoice Number:** 100002 (with search icon and navigation arrows)
 - Client ID:** 890036 (with search icon) Rusk Office Supplies
 - Tabs:** Shipping, **Payments** (selected)
 - Payment Type:** Visa (dropdown)
 - Taxable Amount:** 913.75
 - Tax:** 137.06
 - Sales Rep Id:** AN (with search icon) Anastasia Nelson
 - Invoice Date:** 12/22/2023 (calendar icon)
 - Due Date:** 01/19/2024 (calendar icon)
 - Date Paid:** 01/27/2024 (calendar icon)
 - Buttons:** Write, Delete, Clear, Exit

PROGRESS SO FAR ...

BASIC FILE MAINTENANCE FUNCTIONALITY

- Can read, browse, edit and delete records for the Invoice Header file

NON-STANDARD FUNCTIONALITY STILL NEEDED

- New Invoice button
- Customer Edit button
 - Replace with a hyperlink to existing Client Maintenance HTML page
- Have SHOW.ClientID and SHOW.SalesRep values use blue text
- Country can still be edited (not read-only in the data dictionary)
- Google Map button
- Entire Details tab

We will need to define an HTML Interface program to add this functionality



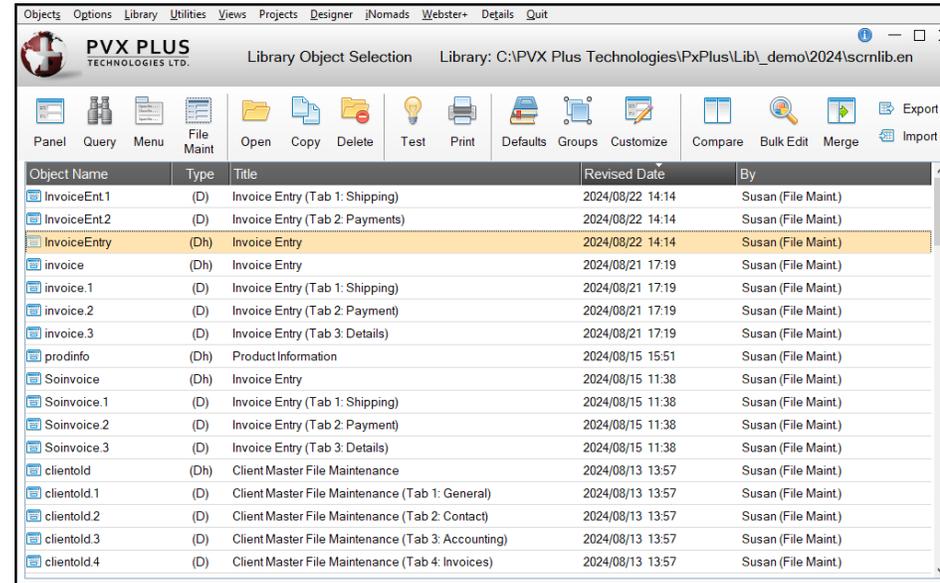
ADD NON-STANDARD CONTROLS

RECALL GENERATED WEBSTER+ PAGE

LIBRARY BULK EDIT

- Double-click on **InvoiceEntry** Object Name

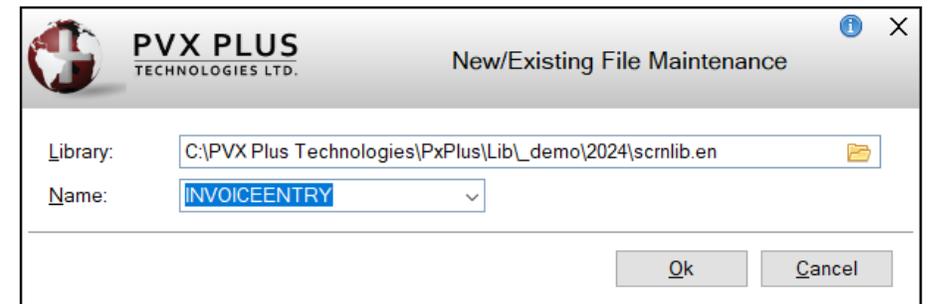
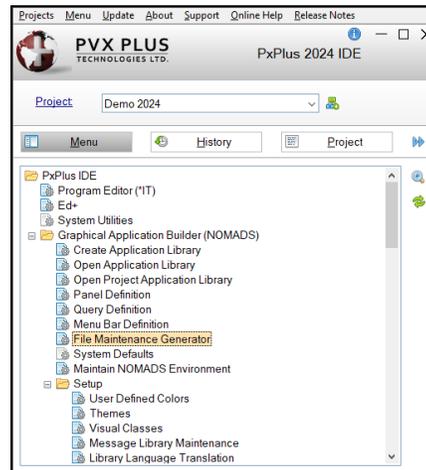
or



Object Name	Type	Title	Revised Date	By
InvoiceEnt1	(D)	Invoice Entry (Tab 1: Shipping)	2024/08/22 14:14	Susan (File Maint)
InvoiceEnt2	(D)	Invoice Entry (Tab 2: Payments)	2024/08/22 14:14	Susan (File Maint)
InvoiceEntry	(Dh)	Invoice Entry	2024/08/22 14:14	Susan (File Maint)
invoice	(Dh)	Invoice Entry	2024/08/21 17:19	Susan (File Maint)
invoice.1	(D)	Invoice Entry (Tab 1: Shipping)	2024/08/21 17:19	Susan (File Maint)
invoice.2	(D)	Invoice Entry (Tab 2: Payment)	2024/08/21 17:19	Susan (File Maint)
invoice.3	(D)	Invoice Entry (Tab 3: Details)	2024/08/21 17:19	Susan (File Maint)
prodinfo	(Dh)	Product Information	2024/08/15 15:51	Susan (File Maint)
Soinvoice	(Dh)	Invoice Entry	2024/08/15 11:38	Susan (File Maint)
Soinvoice.1	(D)	Invoice Entry (Tab 1: Shipping)	2024/08/15 11:38	Susan (File Maint)
Soinvoice.2	(D)	Invoice Entry (Tab 2: Payment)	2024/08/15 11:38	Susan (File Maint)
Soinvoice.3	(D)	Invoice Entry (Tab 3: Details)	2024/08/15 11:38	Susan (File Maint)
clientold	(Dh)	Client Master File Maintenance	2024/08/13 13:57	Susan (File Maint)
clientold.1	(D)	Client Master File Maintenance (Tab 1: General)	2024/08/13 13:57	Susan (File Maint)
clientold.2	(D)	Client Master File Maintenance (Tab 2: Contact)	2024/08/13 13:57	Susan (File Maint)
clientold.3	(D)	Client Master File Maintenance (Tab 3: Accounting)	2024/08/13 13:57	Susan (File Maint)
clientold.4	(D)	Client Master File Maintenance (Tab 4: Invoices)	2024/08/13 13:57	Susan (File Maint)

IDE TASK

- Select the **File Maintenance Generator** task from the IDE Menu and enter the panel Name of **InvoiceEntry**



STEP 1: OBJECT DEFINITION

File Maintenance Generator for panel: INVOICEENTRY

Step 1: File Maintenance Object Definition

1 Definition 2 Properties 3 Screen 4 Controls 5 Keys 6 Fields 7 Finish

Select the file maintenance template and layout format

File Maintenance Template: None Layout: Enhanced

Select the type of form(s) to create

Form Type: NOMADS Panel HTML Page Non-File Maintenance Form

Select the table from the data dictionary

Table Name: Invoice Header Panel Title Symbol:

Panel Title: Invoice Entry

Enter the maintenance object

File Maintenance Object: Use the Standard File Maintenance Object

Object Name: *win/fm_maint.pvc Inquiry Only

Enter the optional HTML interface program

Interface Program: C:\webster2024\prog\SOInvoice_interface

Preview HTML Page Back Next Finish Cancel

INTERFACE PROGRAM

- Program to hold all non-standard file maintenance code for additional buttons, events etc.
- Should be located in the \prog directory of the Webster+ installation
- Enter or browse to:
C:\webster2024\prog\invoice_interface

Press Next twice

STEP 3: SCREEN LAYOUT

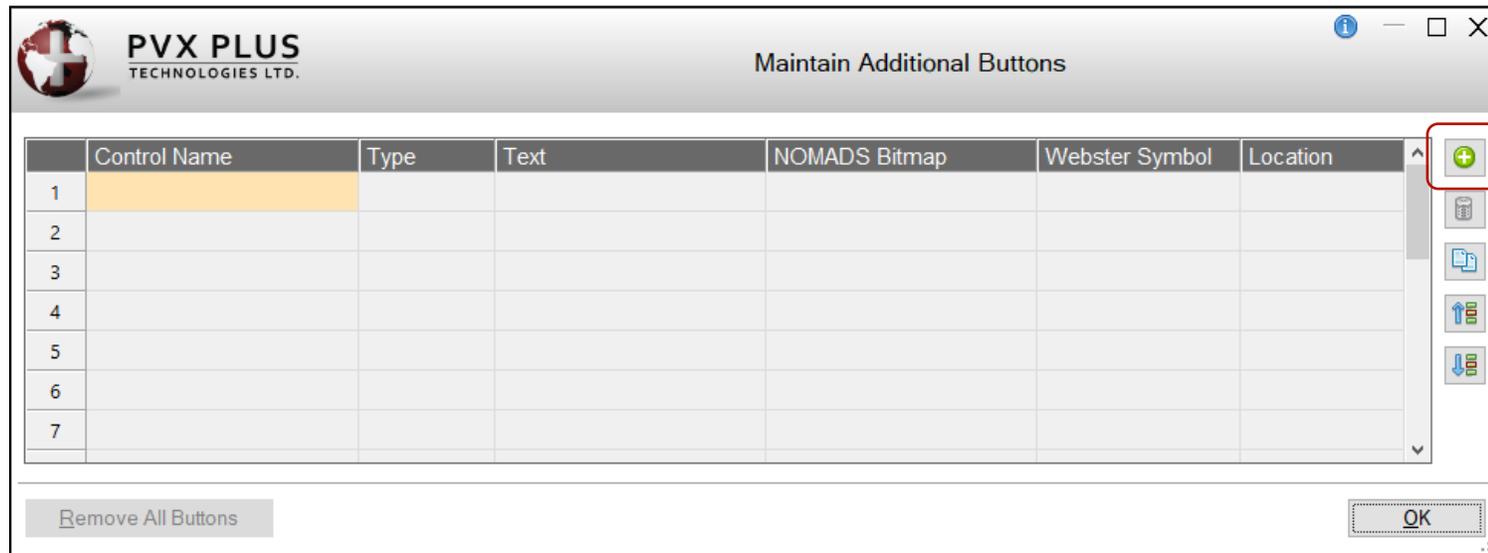
ADDITIONAL BUTTONS

- Press the **Additional Buttons** button to display the **Maintain Additional Buttons** dialog

The screenshot shows a software window titled "File Maintenance Generator for panel: InvoiceEntry". The main heading is "Step 3: File Maintenance Screen Layout". A progress bar at the top indicates seven steps: 1. Definition, 2. Properties, 3. Screen (highlighted with a red border), 4. Controls, 5. Keys, 6. Fields, and 7. Finish. The dialog contains several sections: "Location of browse buttons" with a dropdown set to "Beside Key" and a checked "Tab Stops" checkbox; "Location of action buttons" with a dropdown set to "Bottom Right" and a checked "Tab Stops" checkbox; "Optional Include HTML page" with an empty text field and an "HTML" icon; "Position" with a dropdown set to "Top"; and "Webster+ Template" with an empty text field. On the right side, there are two buttons: "Panel Notes" (with a plus icon) and "Additional Buttons" (with a checkmark icon). At the bottom, there is a "Preview HTML Page" dropdown, a "Back" button, a "Next" button, a "Finish" button, and a "Cancel" button.

MAINTAIN ADDITIONAL BUTTONS

Use the Additional Button feature to create the New Invoice Number button that appears between the Invoice Number input and the browse buttons



ADD OR EDIT AN ADDITIONAL BUTTON

- Double-click in grid row 1 or press the top button on the right side of the grid to display the **Add an Additional Button** dialog

ADD ADDITIONAL BUTTON – WEBSTER+

PVX PLUS
TECHNOLOGIES LTD.

Add an Additional Button

Button Control Name:

Type:

Location: Text:

NOMADS

Include Button on Webster+ Page

Appearance

Symbol:

Position:

HTML Class:

Size

Width:

Height:

HTML

Event:

Other Options:

BUTTON CONTROL NAME

- Change to **NEW_INVOICE**

LOCATION

- **Before Browse**

NOMADS TAB

- Disabled
- Switch to **Webster+ tab**

Press OK twice

SYMBOL

- **plus**

HTML CLASS

- **fm_browse**

SIZES

- Accept **Auto** and **1.25** default values

HTML EVENT

- Enter **new_invoice**

HTML – OTHER OPTIONS

- Enter **tip="New Invoice#"**

Press Next 3 times

STEP 6: CLIENT ID HYPERLINK

Define a Hyperlink on the Client ID prompt rather than creating the Customer Edit button

CLIENT ID HYPERLINK

- Right-Click on **Client ID** field in the grid to display the popup menu
- Select **Add Object/Add or Edit a Hyperlink Prompt**
- Enter **clients** as the HTML Page and press the **OK** button
- Notice field is now underlined in the layout grid

PVX PLUS TECHNOLOGIES LTD. Add a Hyperlink Prompt

Make the 'ClientId' prompt a hyperlink to the following NOMADS panel.

Hyperlink Panel

Library Panel

Make the 'ClientId' prompt a hyperlink to the following HTML page for Webster+.

HTML Page:

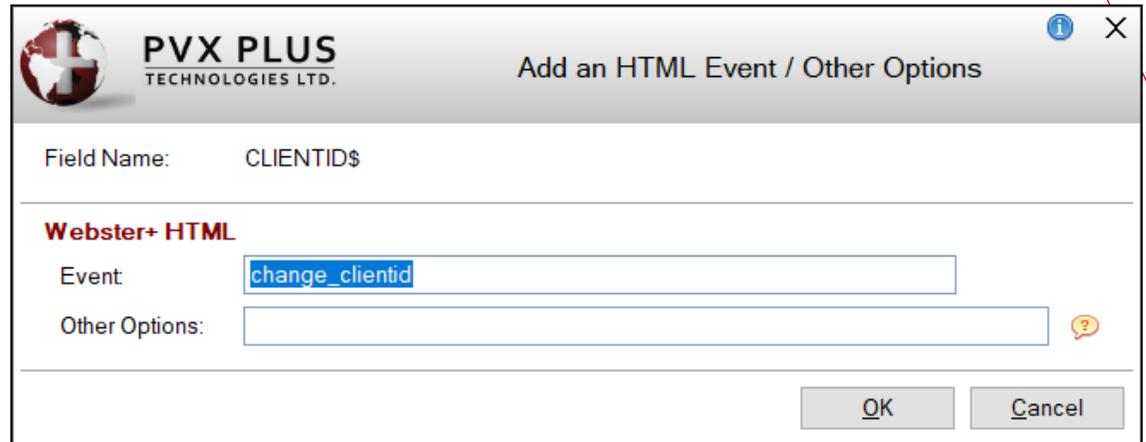
[Client ID \(ClientId\)](#)

STEP 6: CLIENT ID EVENT

Define an Event for the Client ID entry to execute code to populate the address fields from the Client data file

CLIENT ID EVENT

- Right-Click on **Client ID** field in the grid to display the popup menu
- Select **Add Object/Add or Edit an HTML Event / Other Options**
- Enter **change_clientid** as the Webster HTML Event and press the **OK** button
- Notice field now has a red tick as well as being underlined in the layout grid



The screenshot shows a dialog box titled "Add an HTML Event / Other Options" from PVX PLUS TECHNOLOGIES LTD. The dialog contains the following fields and options:

- Field Name: CLIENTID\$
- Webster+ HTML section:
 - Event: change_clientid
 - Other Options: (empty field)
- Buttons: OK and Cancel

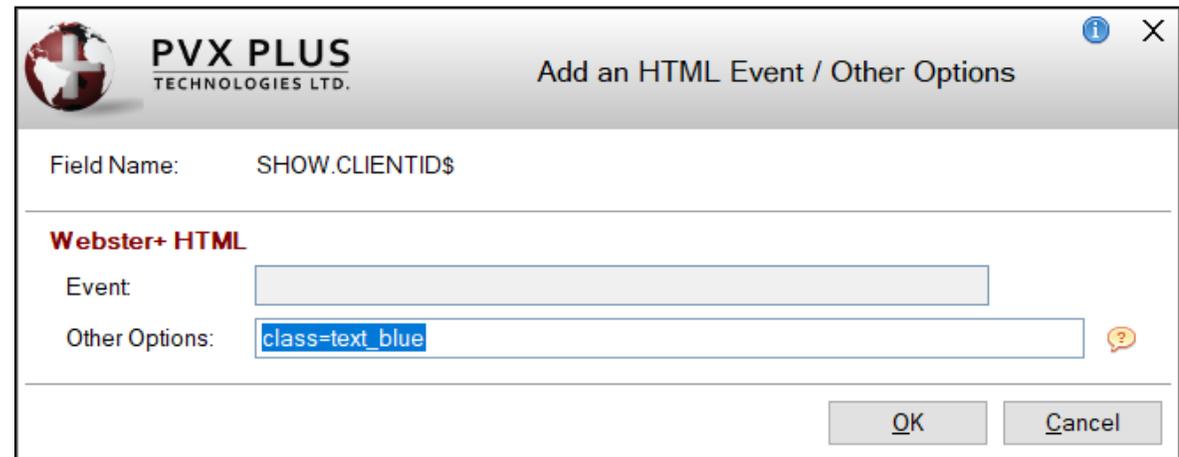


Client ID (Clientid)

STEP 6: ADD CLASS TO SHOW.CLIENTID

SHOW.CLIENTID

- Right-Click on **SHOW.ClientID** field in the grid to display the popup menu
- Select **Add Object/Add or Edit an HTML Event / Other Options**
- Enter **class=text_blue** in the Other Options multi-line and press the **OK** button
- Notice field now has a red tick to indicate an Event/Other Options



The screenshot shows a dialog box titled "Add an HTML Event / Other Options" from PVX PLUS TECHNOLOGIES LTD. The "Field Name" is "SHOW.CLIENTID\$". Under the "Webster+ HTML" section, the "Event" field is empty, and the "Other Options" field contains the text "class=text_blue". The dialog has "OK" and "Cancel" buttons at the bottom right.

ClientName from Client Master File (SHOW.ClientId)

STEP 6: SHIPPING TAB

CURRENT TAB

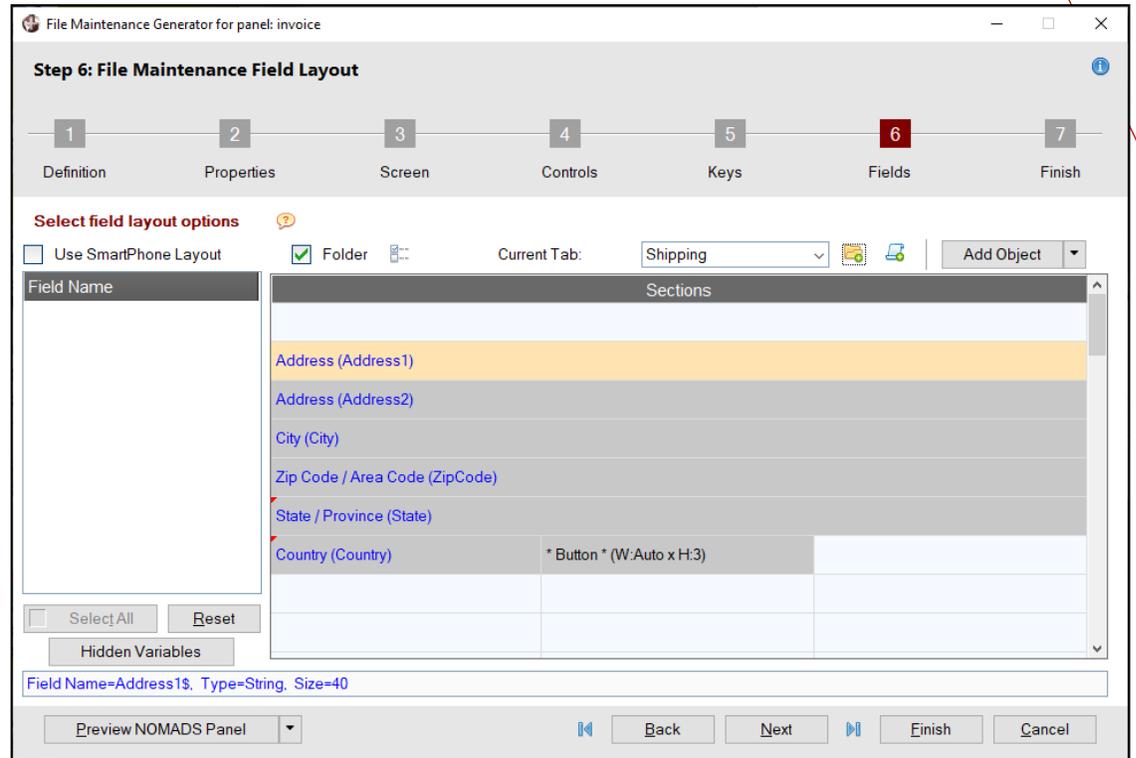
- Select **Shipping** from the Current Tab variable drop box
- Layout Grid will reload with the Shipping tab layout

CHANGE SECTION SIZE OF LAST ROW

- Right-Click on **Country** cell and switch to Third Sections from the popup menu

MAP BUTTON

- Right-Click the cell beside Country and select **Add Object/Add or Edit a Button** from the popup menu



ADD GOOGLE MAP BUTTON

PVX PLUS
TECHNOLOGIES LTD.

Add a Button

Button Control Name:

Type: Text:

NOMADS Webster+

Include Button on Webster+ Page

Appearance

Symbol:

Position:

HTML Class:

Size

Width: Height:

HTML

Event:

Other Options:

Span Multiple Lines

BUTTON CONTROL NAME

- Switch to **MAP**

NOMADS TAB

- Switch to **Webster+ tab** as NOMADS tab is all disabled

SYMBOL

- Enter **!32X32/Maps/Map**

HEIGHT

- Change to **3.00**

HTML EVENT

- Enter ***map,address1\$,city\$,state\$,country\$**

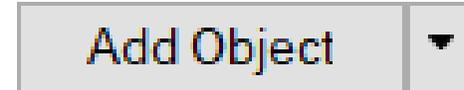
Press OK

STEP 6: LOCK COUNTRY MULTI-LINE

Can also use the Add Object button (above the layout grid) to add Events, Hyperlinks, Calculations, Events and Other Options

COUNTRY

- Click on **Country** field in the grid and press the **Add Object** button
- Select **HTML Event / Other Options**
- Enter **locked** in the Other Options multi-line and press the **OK** button
- Notice field now has a red tick to indicate an Event/Other Options



The dialog box has a title bar with the PVX PLUS TECHNOLOGIES LTD. logo and the text "Add an HTML Event / Other Options". It contains the following fields:

- Field Name: COUNTRY\$
- Webster+ HTML section with two input fields:
 - Event: (empty)
 - Other Options: locked class=fill_white
- Buttons: OK and Cancel



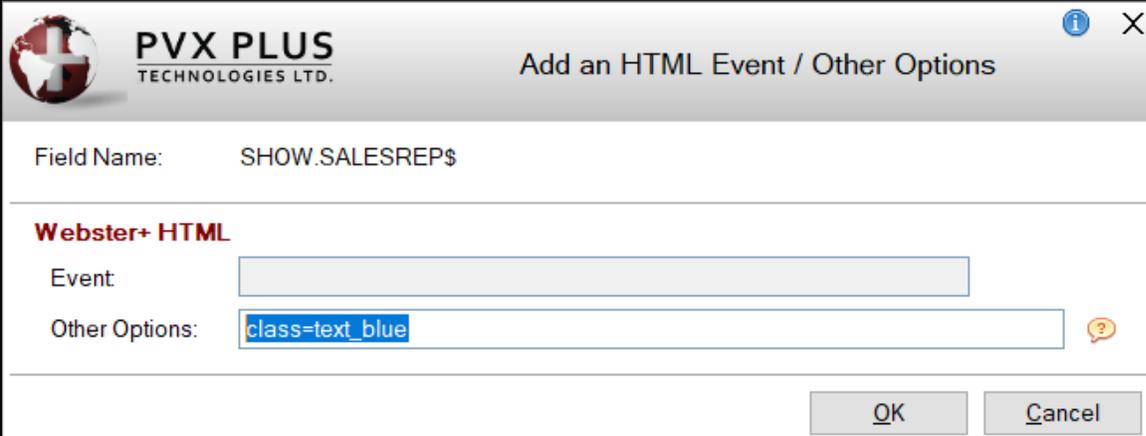
STEP 6: CLASS FOR SHOW. SALESREP

CURRENT TAB

- Select **Payment** from the Current Tab variable drop box
 - Layout Grid will reload with the Payment tab layout

SHOW.SALESREP

- Right-Click on **SHOW.SalesRep** field in the grid to display the popup menu
- Select **Add Object/Add or Edit an HTML Event / Other Options**
- Enter **class=text_blue** in the Other Options multi-line and press the **OK** button
- Notice field now has a red tick to indicate an Event/Other Options



The screenshot shows a dialog box titled "Add an HTML Event / Other Options" from PVX PLUS TECHNOLOGIES LTD. The dialog contains the following fields and options:

- Field Name: SHOW.SALESREP\$
- Webster+ HTML section:
 - Event: (empty text box)
 - Other Options: class=text_blue (text box with a help icon)
- Buttons: OK and Cancel

Name from Sales Rep (SHOW.SalesRep)

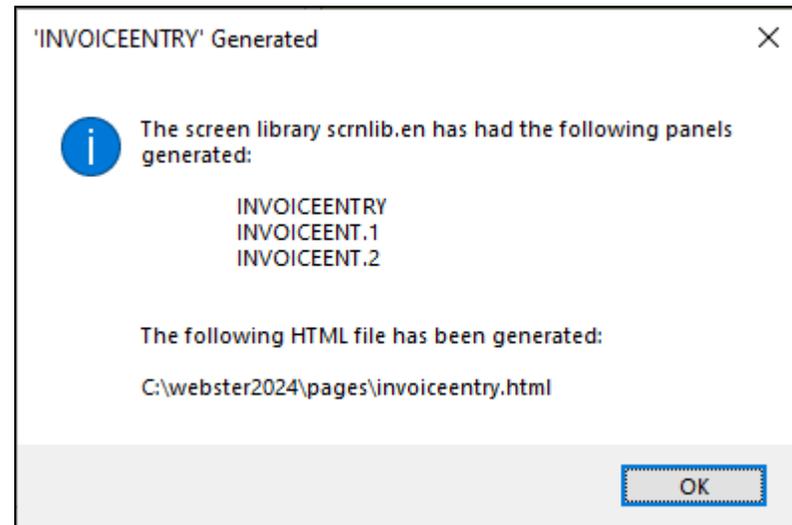
FINISH

No need to navigate to the Completion step (Step 7) when regenerating a panel/page.

Simply press the **Finish** button to regenerate the Webster+ page

Press Finish

The confirmation dialog re-appears





CHECK NON-STANDARD CONTROLS

MAIN PANEL IN WEBSTER

Navigate back to

[127.0.0.1:8088/webster.pxp?pg\\$=invoiceentry](http://127.0.0.1:8088/webster.pxp?pg$=invoiceentry)
in the browser

NEW INVOICE BUTTON

- Runs **new_invoice** event from the interface program
 - Clears inputs and sets Invoice Number to the highest number in the file plus one drop box

CLIENT ID HYPERLINK

- Clicking on the Client ID prompt launcher Client Master File Maintenance panel in another Webster+ tab

Invoice Entry

Invoice Number: 000000 🔍 + ⏪ ⏩

Client ID: 000000 🔍

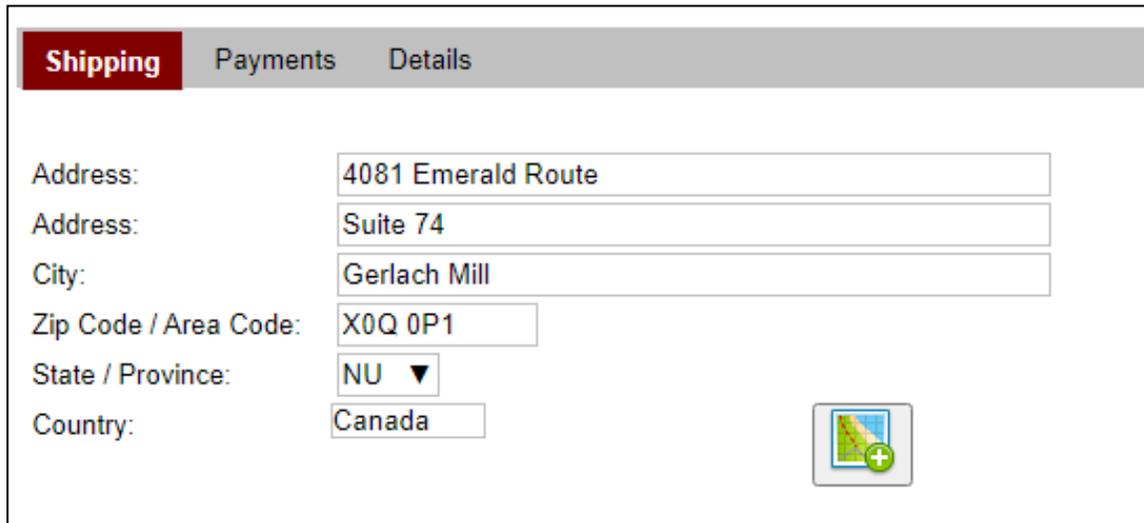
CLIENTID EVENT

- Changing the Client ID value populates the address fields from the Client Master file

SHOW.CLIENTID HTML CLASS

- Client Name now displayed in blue

SHIPPING TAB IN WEBSTER



The screenshot shows a web form with a navigation bar at the top containing three tabs: "Shipping" (highlighted in red), "Payments", and "Details". Below the navigation bar, there are several input fields for shipping information:

- Address: 4081 Emerald Route
- Address: Suite 74
- City: Gerlach Mill
- Zip Code / Area Code: X0Q 0P1
- State / Province: NU ▼
- Country: Canada

At the bottom right of the form, there is a small square button with a map icon and a green plus sign, representing the "Map Button".

LOCKED COUNTRY INPUT

- Country Input is locked due to the locked option being added

MAP BUTTON

- Pressing the Map button launches a dialog displaying the invoice address in Google Maps

PAYMENT TAB IN WEBSTER

Shipping	Payments		
Payment Type:	<input type="text" value="Visa"/>	Invoice Date:	<input type="text" value="12/22/2023"/>
Taxable Amount:	<input type="text" value="913.75"/>	Due Date:	<input type="text" value="01/19/2024"/>
Tax:	<input type="text" value="137.06"/>	Date Paid:	<input type="text" value="01/27/2024"/>
Sales Rep Id:	<input type="text" value="AN"/>  Anastasia Nelson		

SHOW.SALESREP HTML CLASS

- Sales Rep Name now also displayed in blue

INTERFACE PROGRAM

```
« Webster Plus

Contents of C:\webster2024\prog\SOInvoice_interface

File size: 7182 bytes. Last saved by Susan. Last saved on 2024-08-22 16:01:00

Close Refresh Edit

!
! SO Invoice Webster+ interface program
!
let %webster'BindFile$="invoiceentry.html"
!
! Handle events
goto lno("EVENT_"+_event$,err=*next)
%webster'msgbox("Invalid event: "+_event$,"Internal Error - "+pgm(-3),"!")
!
exit
!
! ***** File Maintenance Access methods *****
!
FM_INIT:
! Run on page initialization
!
! Make details grid
if DETAILS_GRID<>0
then return
!
! Create memory file with one blank line record
open (hfn,iol=DETAILLSIOL)**memory*
let DETAILS_GRID=1fo
!
gosub ADDLINES
!
let _FocusTo$=ClientID$
!
exit
!
FM_POST_READ:
! Run after each Invoice Header Record read
!
```

INTERFACE PROGRAM IN INSPECTOR

- Example: EVENT_CHANGE_CLIENTID method

```
!
EVENT_CHANGE_CLIENTID:
! Change Client ID
!
let ClientID$=str(num(ClientID$):"000000",err=BAD_CLIENT)
!
%webster'update("", "")
!
read ("Client",key=ClientID$,rec=cl$,dom=BAD_CLIENT)
!
let Address1$=cl.Address1$
let Address2$=cl.Address2$
let City$=cl.City$
let State$=cl.State$
let Country$=cl.Country$
let ZipCode$=cl.ZipCode$
!
let PaymentType$=cl.PaymentType$
let SalesRep$=cl.SalesRep$
!
%webster'UpdateFMDisplay()
!
exit
!
```



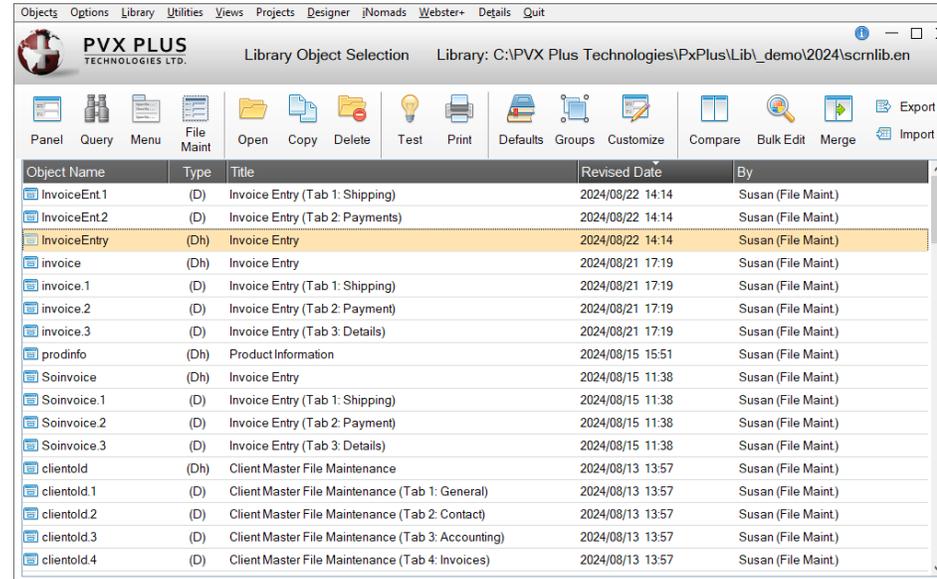
ADD INVOICE DETAIL TAB

RECALL GENERATED WEBSTER+ PAGE

LIBRARY BULK EDIT

- Double-click on **InvoiceEntry** Object Name

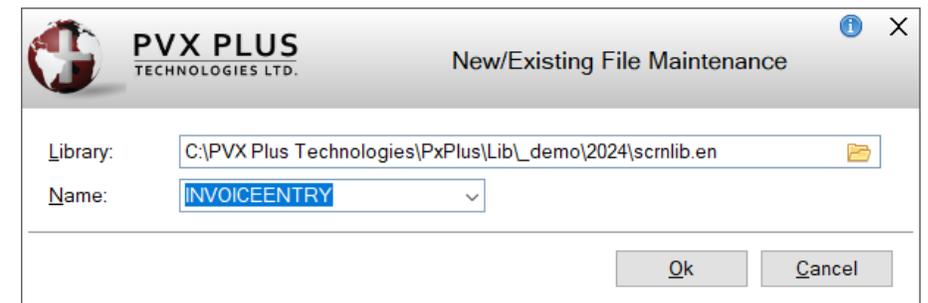
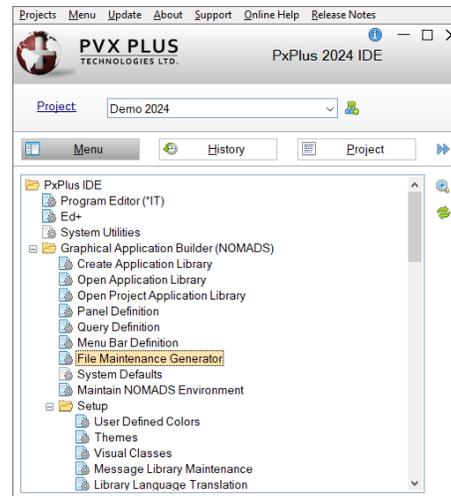
or



Object Name	Type	Title	Revised Date	By
InvoiceEnt1	(D)	Invoice Entry (Tab 1: Shipping)	2024/08/22 14:14	Susan (File Maint)
InvoiceEnt2	(D)	Invoice Entry (Tab 2: Payments)	2024/08/22 14:14	Susan (File Maint)
InvoiceEntry	(Dh)	Invoice Entry	2024/08/22 14:14	Susan (File Maint)
invoice	(Dh)	Invoice Entry	2024/08/21 17:19	Susan (File Maint)
invoice.1	(D)	Invoice Entry (Tab 1: Shipping)	2024/08/21 17:19	Susan (File Maint)
invoice.2	(D)	Invoice Entry (Tab 2: Payment)	2024/08/21 17:19	Susan (File Maint)
invoice.3	(D)	Invoice Entry (Tab 3: Details)	2024/08/21 17:19	Susan (File Maint)
prodinfo	(Dh)	Product Information	2024/08/15 15:51	Susan (File Maint)
Soinvoice	(Dh)	Invoice Entry	2024/08/15 11:38	Susan (File Maint)
Soinvoice.1	(D)	Invoice Entry (Tab 1: Shipping)	2024/08/15 11:38	Susan (File Maint)
Soinvoice.2	(D)	Invoice Entry (Tab 2: Payment)	2024/08/15 11:38	Susan (File Maint)
Soinvoice.3	(D)	Invoice Entry (Tab 3: Details)	2024/08/15 11:38	Susan (File Maint)
clientold	(Dh)	Client Master File Maintenance	2024/08/13 13:57	Susan (File Maint)
clientold.1	(D)	Client Master File Maintenance (Tab 1: General)	2024/08/13 13:57	Susan (File Maint)
clientold.2	(D)	Client Master File Maintenance (Tab 2: Contact)	2024/08/13 13:57	Susan (File Maint)
clientold.3	(D)	Client Master File Maintenance (Tab 3: Accounting)	2024/08/13 13:57	Susan (File Maint)
clientold.4	(D)	Client Master File Maintenance (Tab 4: Invoices)	2024/08/13 13:57	Susan (File Maint)

IDE TASK

- Select the **File Maintenance Generator** task from the IDE Menu and enter **InvoiceEntry** as the panel Name

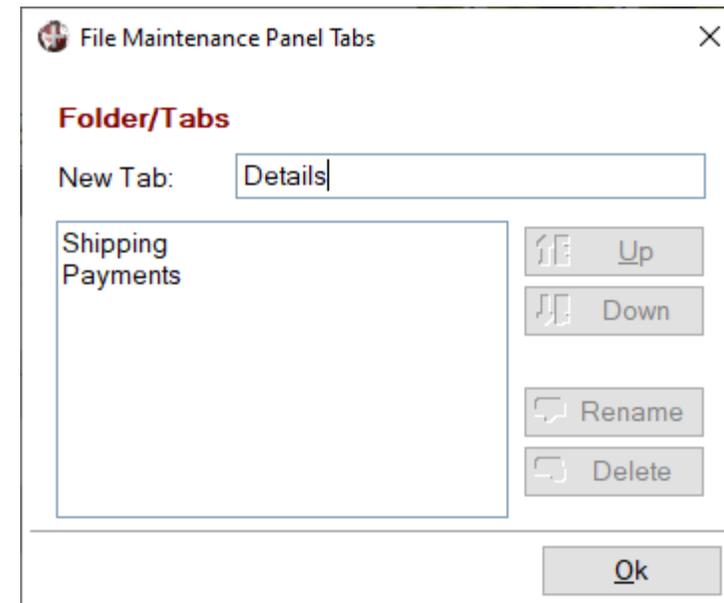


ADD DETAILS TAB

This time we will add the Details tab in a different manner

MAINTAIN FOLDER TABS

- Press the **Maintain Folder Tabs** button beside the Current Tab drop box
- Type Details as the new Folder Tab
- Press **Ok** button
- The layout grid will be cleared



ADD THE DETAILS GRID

ADD GRID

- Click on the layout grid cell in row 2, column 1 and use the popup menu to make this a **Full Section**
- Press the **Add Object** button and select the **Grid** option
- The Add a Webster+ Grid dialog appears

ADD A WEBSTER+ GRID

- Change the Grid Variable to **DETAILS_GRID**
- The Initialization Program will change to **C:\webster2024\prog\invoice_interface;load_DETAILS_GRID**
- Change the Height from **10..00** to **23.00**
- Check the **Include Drag Column** and **Include Delete Column** check boxes

PVX PLUS
TECHNOLOGIES LTD.

Add a Webster+ Grid

Grid Variable (channel number of the memory file):

Size Width: Height:

Appearance Grid Class: Header Class:

Grid Lines Include Drag Column Include Delete Column

Interfaces Initialization Program:

DETAILS GRID COLUMN DEFINITIONS

Definition Type	Variable	Title	Width	Align	Cell Type	Lck	Other Options
File/Application/Invoice Detail	ProductCode\$	Fixed= Product Code	Fixed= 20.00	Left	Normal	<input type="checkbox"/>	event=change_product
File/Application/Invoice Detail	ItemDescription\$	Fixed= Item Description	Fixed= 40.00	Left	Normal	<input type="checkbox"/>	
File/Application/Invoice Detail	Price	Fixed= Price	Fixed= 10.00	Right	Normal	<input type="checkbox"/>	event=change_grid
File/Application/Invoice Detail	ItemQty	Fixed= Qty	Fixed= 8.00	Right	Normal	<input type="checkbox"/>	event=change_grid
Simple Variable	DetailAmount	Fixed= Amount	Fixed= 20.00	Right	Normal	<input checked="" type="checkbox"/>	format="-##,##0.00"
Simple Variable				Left	Normal	<input type="checkbox"/>	

NUMBER	COLUMN	VARIABLE	TYPE
1	Product Code	ProductCode\$	Invoice Detail
2	Item Description	ItemDescription\$	Invoice Detail
3	Price	Price	Invoice Detail
4	Qty	ItemQty	Invoice Detail
5	Amount	DetailAmount	Simple Variable

DEFINE THE COLUMNS

1. PRODUCT CODE

- Use the query button in the first cell of the Column Definitions grid to select the File Node and the **Invoice Detail** data file from the Data Dictionary tree view
- Use the Variable column drop box to select the **ProductCode\$** variable
 - The Title and Width are populated from the Data Dictionary
- Change the Width column to **20.00**
- In the Other Options column, type **event=change_grid**

2. ITEM DESCRIPTION

- On the second line of the grid, the Definition Type column will now default to the Invoice Detail data file
- Use the Variable column drop box to select the **ItemDescription\$** variable

3. PRICE

- On the third line of the grid, use the Variable column drop box to select the **Price** variable
- Change the Width column to **10.00**
- Change the Alignment to **Right**
- In the Other Options column, type **event=change_grid**

CONTINUE DEFINING THE COLUMNS

4. QTY

- On the fourth line of the grid, use the Variable column drop box to select the **ItemQty** variable
- Change the Title to **Qty**
- Change the Width column to **8.00**
- Change the Alignment to **Right**
- In the Other Options column, type **event=change_grid**

The Amount column is not a field in the Invoice Detail data file. It will be calculated by multiplying the ItemQty and Price values

5. AMOUNT

- On the fifth line of the grid, use the query button to change the Definition Type to **Simple Variable**
- In the Variable column, type **DetailAmount**
- In the Title column, type **Amount**
- In the Width column, type **20.00**
- Change the Alignment to **Right**
- In the Other Options column, type **format="-
##,##0.00"**
- Press the **OK** button to exit the Add a Webster+ Grid dialog

ADD ROWS BUTTON

For the Webster+ HTML page , the details grid will initially display the contents of the grid plus 10 empty rows. Pressing the 'Add 10 Rows' button will add an additional 10 empty rows if more rows are needed.

ADD 10 ROWS BUTTON

- Click on the layout grid cell in row 4, column 1 and use the popup menu to select **Half Section**
- Click in the first column and press the **Add Object** button and select the **Button** option
- The Add a Button dialog appears
- Change the Button Control Name to **ADD_ROWS_BUTTON**
- Change the Text to **Add 10 Rows**
- On the Webster+ tab, leave the default Height of 2.00 and add an Event of **add_rows**
- Press the **OK** button to exit the dialog

NET INVOICE MULTILINE

NET_INVOICE

- Click on the cell beside the button control we just added (row 4, column 2)
- Press the **Add Object** button and select the **Input Field** option

ADD AN INPUT FIELD

- Change the Name to **NET_INVOICE**
- Type **Net Invoice** for the Prompt
- On the Display tab, change the Input Format to **#,###,##0.00**
- On the Attributes tab, check the **Numeric** and **Locked** check box
- On the Webster+ tab, enter a Calculation of **DETAILS_GRID:DetailAmount**
- Press the **OK** button to exit the dialog

ALL FINISHED

The Layout Grid for the Details tab is now complete and should look as follows;

•

Sections	
* Grid * (DETAILS_GRID)	
* Button * (W:Auto x H:2)	* Input - Net Invoice * (NET_INVOICE)

Press the Finish button to regenerate the Webster+ page

The confirmation dialog re-appears

Press Finish



REVIEW FINAL OUTPUTS

CHECK DETAILS TAB IN WEBSTER

Navigate back to
[127.0.0.1:8088/webster.pxp?pg\\$=invoiceentry](http://127.0.0.1:8088/webster.pxp?pg$=invoiceentry)
in the browser

DETAILS GRID

- Contains the 5 columns defined as well as the special Drag and Del columns
- Loads with the detail lines for each selected invoice
- Entering a Product Code populates the **Item Description** and **Price** from the Products data file (in the **change_grid** event code)
- Qty defaults to 1
- Amount is calculated from **Qty** and **Price** (in the **change_grid** event code)



The screenshot shows the 'Details' tab of the Webster application. It features a table with columns for Drag, Product Code, Item Description, Price, Qty, Amount, and Del. Below the table is an 'Add 10 Rows' button and a 'Net Invoice' field displaying '79.50'.

Drag	Product Code	Item Description	Price	Qty	Amount	Del
☰	CAR-1324-RED	Safari Jeep - Red	9.75	2	19.50	🗑️
☰	CAR-1324-RED	Safari Jeep - Red XXXXXXXX	9.75	1	9.75	🗑️
☰	SUV-1421-GRN	Compact SUV - Green	10.00	1	10.00	🗑️
☰	VAN-4111-ROS	Panel Van - Pale Rose	9.25	1	9.25	🗑️
☰	CAR-1412-SEA	Bug - Seagreen	8.00	1	8.00	🗑️
☰	VAN-4111-ROS	Panel Van - Pale Rose	9.25	1	9.25	🗑️
☰	SPR-4224-PNK	2 Person Sporty City Car - Fuschia	13.75	1	13.75	🗑️
☰			0.00	0	0.00	🗑️
☰			0.00	0	0.00	🗑️
☰			0.00	0	0.00	🗑️
☰			0.00	0	0.00	🗑️

Add 10 Rows Net Invoice: 79.50

ADD 10 ROWS

- Adds 10 additional blank lines to the details grid

NET INVOICE

- Locked input control showing the total for the Amount column

REVIEW INTERFACE PROGRAM

LOAD_DETAILS_GRID

```
LOAD_DETAILS_GRID:
! Load grid memory file for a particular InvoiceNumber$ with ten blank lines
! Populate other input fields added to Details tab
!
local DetailsIol
!
open (hfn,iol=*)"data/invdtl"
let dtl_file=lfo
if DETAILS_GRID<>0
then close (DETAILS_GRID)
!
open (hfn,iol=DETAILS_IOL)*"memory*"
let DETAILS_GRID=lfo
!
if InvoiceNumber$<>""
then
{
select * from dtl_file begin InvoiceNumber$ end InvoiceNumber$+$FE$
let DetailAmount=Price*ItemQty
write (DETAILS_GRID)
next record
!
}
gosub ADDLINES
!
%webster'bind'update("details_grid")
!
close (dtl_file)
!
exit
```

EVENT_CHANGE_GRID

```
EVENT_CHANGE_GRID:
gosub UPDATE_DETAILS_GRID
%webster'update("_fm_changes","1")
!
exit
!
UPDATE_DETAILS_GRID:
let row=0
let lines=0
let NET_INVOICE=0
open (hfn,iol=iol(DETAILS_GRID))*"memory*"
let new_grid=lfo
!
while 1
row++
read (DETAILS_GRID,rno=row,err=*break)
!
let newflag=tbl(ProductCode$<>"" and Price=0 and ItemQty=0 and ItemDescription$="",0,1)
if newflag
then gosub VALIDATE_PRODUCT_CODE
!
let DetailAmount=Price*ItemQty
!
write (new_grid)
wend
!
close (DETAILS_GRID)
let DETAILS_GRID=new_grid
!
%webster'bind'update("DETAILS_GRID")
!
return
```

REVIEW WEBSTER HTML PAGE

MAIN PANEL

```
[tt]Invoice Entry[/tt]

[form program=*fm_webmaint] [show infobox_msg$ class="infobox show_till_change"]

[rem ScreenLibrary=scrnlib.en] [hide %fm_usefile$ value="Invoice Header" secure]
[execute perform "C:\webster2024\prog\invoice_interface;FM_Init",err=*proceed]

[section half] [row "\[show usefile field=InvoiceNumber$:]][input InvoiceNumber$ usefile event=Change_Key focus] [button id=NEW_INVOICE size=Auto/1.25 event=new_invoice class="fm_browse" tip=New Invoice#][symbol !File_add] [/button][include *fm_browse.html]/row]
[row "\[show usefile field=Clientid$ linkto=clients\:]][input Clientid$ usefile] [show SHOW.Clientid$ class=text_blue]/row]
[addevent CLIENTID$ event=change_clientid] [/section]

[section half]
```

PAYMENT TAB

NOMADS FM PROPERTIES

```
[hide _fm_new_prop$ value="0"]
[hide _fm_clear_prop$ value="1"]
[hide _fm_confirm_new_prop$ value="0"]
[hide _fm_ack_write_prop$ value="0"]
[hide _fm_confirm_del_prop$ value="1"]
[hide _fm_ack_delete_prop$ value="1"]
```

```
[tab]Payments[/tab]

[section whole]

[/section]

[section half] [row "\[show usefile field=PaymentType$:]][list PaymentType$ usefile program=*class;ClassList,"PAYMENTTYPE"][/list]/row]
[row "\[show usefile field=Amount\:]][input Amount usefile]/row]
[row "\[show usefile field=Tax\:]][input Tax usefile]/row]
[row "\[show usefile field=SalesRep$:]][input SalesRep$ usefile] [show SHOW.SalesRep$ class=text_blue]/row]
[/section]

[section half] [row "\[show usefile field=InvoiceDate$:]][input InvoiceDate$ usefile]/row]
[row "\[show usefile field=DueDate$:]][input DueDate$ usefile]/row]
[row "\[show usefile field=DatePaid$:]][input DatePaid$ usefile]/row]
[/section]
```