

Atlas Sherpa

A CRM Developer's Chrome Extension

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TITLE

Asst. Dir. Development Technology Systems

NON-PROFIT EXPERIENCE

Ten years

HOMETOWN

Boston, MA

ABOUT ME

- Born in France
- Love to cook
- Left tech to work in non-profits



Agenda

- Sherpa Who?
- Demo
- Chrome Extensions 101
- How did you do that?
- What else can we do?



SHERPA WHO?

A quick introduction to Altas Sherpa and Chrome Extensions

What is Atlas Sherpa?

A Chrome Extension to help navigate and develop for the BBCRM platform

- Browser history visualization
- Environment navigation
- BBCRM interface enhancement

Why use a Chrome Extension?

- Navigating multi-database environments
- Overlay CRM interface
- Prior experience with Chrome extensions
- It's cool!





DEMO

I swear it worked yesterday...



CHROME EXTENSIONS 101



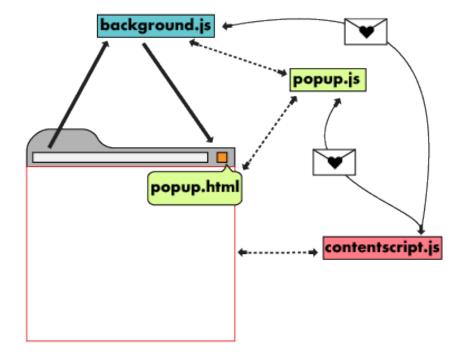
Chrome Extension Development

- Languages
 - HTML
 - CSS
 - Javascript
- Visual Studio project template
- Unpacked Extensions
- Chrome Web Store



Chrome Extension Architecture

- Manifest
 - Configuration & Permissions
- Popup
 - Extension UI
- Content
 - Page injection
- Background
 - Runs continuously





HOW DID YOU DO THAT?

Trials & Tribulations



SOAP & Asynchronous Structure

- The Problem
 - Popup loads slowly when waiting for SOAP call

- The Solution
 - Make SOAP calls in Background script
 - Pull results into Popup from Background



popup.js





background.js





CRM Webservices



Working with the CRM DOM: Document Loaded

```
// Wait until the page is actually loaded
    var waitCounter = 0;
  waitCounter++;
        // Check if header has populated yet
        if ($('.bbui-pages-header').children().length > 0) {
           // Stop checking
           clearInterval(checkExist);
           // Load content
           afterPageLoad();
26
28
        // If it take more than 20 cycles (2 seconds) then bail
        if (waitCounter >= 20) {
           console.log("Timeout waiting for page to load...");
31
    }, 100); // check every 100ms
```



Working with the CRM DOM: Positioning Elements

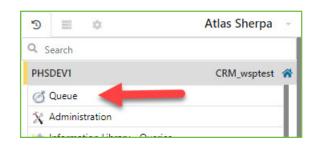


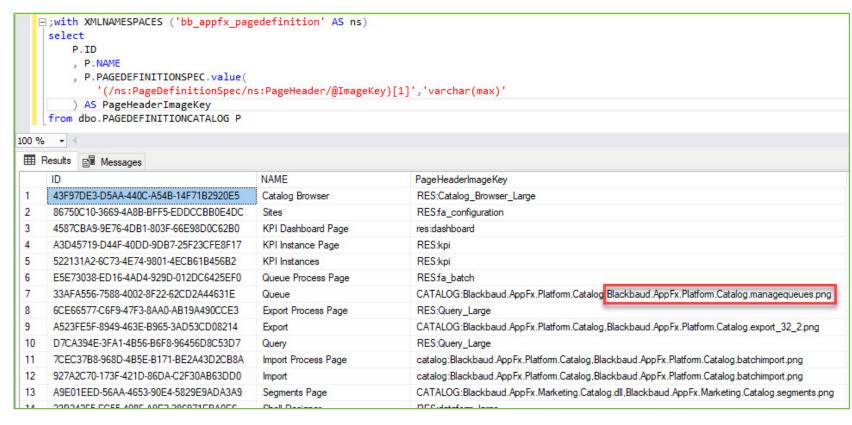
```
// Get the left and right header elements
                 var bbui left = $('.bbui-pages-header-left');
                 var bbui right = $('.bbui-pages-header-right');
89
                 // Set the height and width of space between the elements
                 var nav left = bbui left.position().left + bbui left.outerWidth();
                 var nav height = bbui left.outerHeight();
                 var nav width = bbui right.position().left - nav left - 40;
93
94
                 // Create a scaffolding for the space
                 var atlas nav = `
95 🖻
                      <div id="atlas nav">
                         <div id="atlas left"></div>
                         <div id="atlas middle"></div>
                         <div id="atlas right"></div>
101
                 // Insert the scaffolding
102
                 atlas nav = $(atlas nav).appendTo("body");
                 // Set the calculated height & width
                 atlas nav.css("left", nav left);
                 atlas_nav.css("width", nav_width);
                 atlas_nav.css("height", nav_height);
```

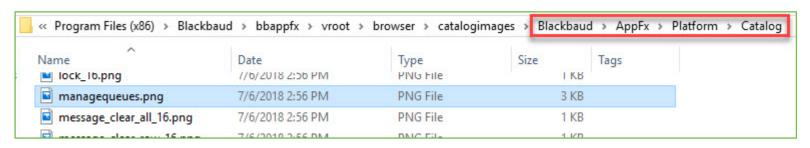


blackbaud

CRM Icons





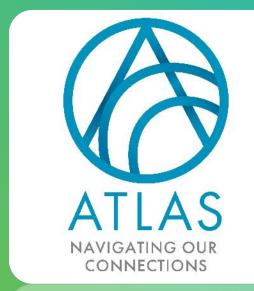




What else can we do?

- Surface CRM forms
- Trigger CRM events
- Overlay help
- CSS overlay: Themes
- Integrate with 3rd party APIs
- Support Tickets

THANK YOU!



NAVIGATING OUR CONNECTIONS

Questions?



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https://github.com/wpozzarPHSDEV/AtlasSherpa



https://chrome.google.com/webstore/detail/atlas-sherpa/limpjfdjoiemnnklknhekiaenolbofkg