Trailblazer COMMUNITY GROUPS

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How to build Salesforce Friendly Chrome Extension

Presented by - Nisar Ahmad

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Nisar Ahmad

Tech Lead @ iBirds
8x Salesforce Certified Consultant & Programmer

- Worked in Salesforce Sales. Service, Community and LWC
- Great Passion for creating truly beautiful, efficient digital products that makes people’s experiences memorable.
- Always open for any idea or thought you have to discuss over a cup of tea

in nisar99

@Nisar_999

Agenda

1. Basic Concepts
2. Chrome APIs
3. Quick Demo
4. Debugging
5. Demo With Salesforce APIs
6. Publish (Deploy)
7. Links to Practice

Let's Start

Basic Concepts

When we think of an extension (also named plugin), we sometimes think about an icon in the top right corner of Google Chrome’s toolbar. Most of you might remember that when you click this icon, a nice popup usually appears. In reality that’s only one part of an extension. An extension is an ecosystem of three (3) individual pieces:

1. The **popup** that you see when you click the icon in the toolbar.
2. The **content** scripts that run on top of an existing website.
3. The **background** scripts that run in the background of Google Chrome.

Putting it all together

As mentioned before we have three (3) pieces to our ecosystem; the popup, the content scripts and the background scripts. Let's make sure we got it right:

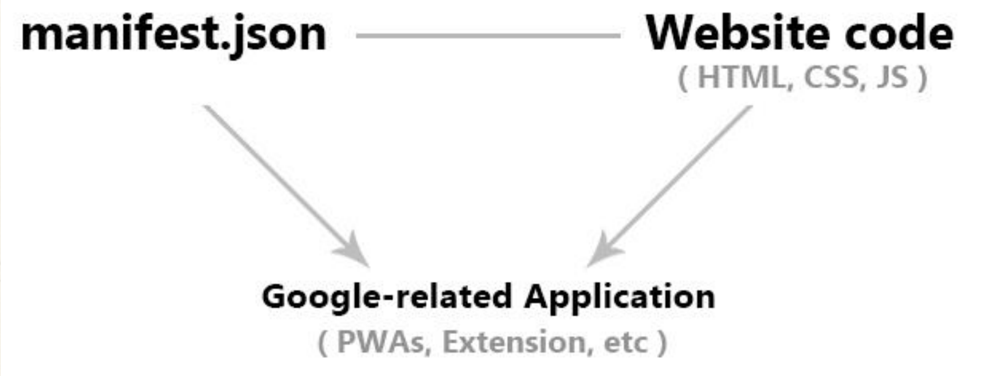
- **Popup**: The custom UI for the plugin. You can define HTML, CSS, JS, Images related to the popup. It behaves exactly like a typical website. Whenever you toggle the popup, it's as if you were refreshing a website! (i.e. data gets reseted)
- **Background Scripts:** A collection of JS scripts that run in the background once per extension installation. Useful for configuration & setup that we only declare once & don't want to ever close or reset (global listeners, etc.).
- **Content Scripts:** A collection of scripts that get added to a website's code, as if they were shipped with the website itself. Has access to everything in the DOM. Useful for interacting with the DOM of a page in any sort of way.

A plugin must register at least one of those.

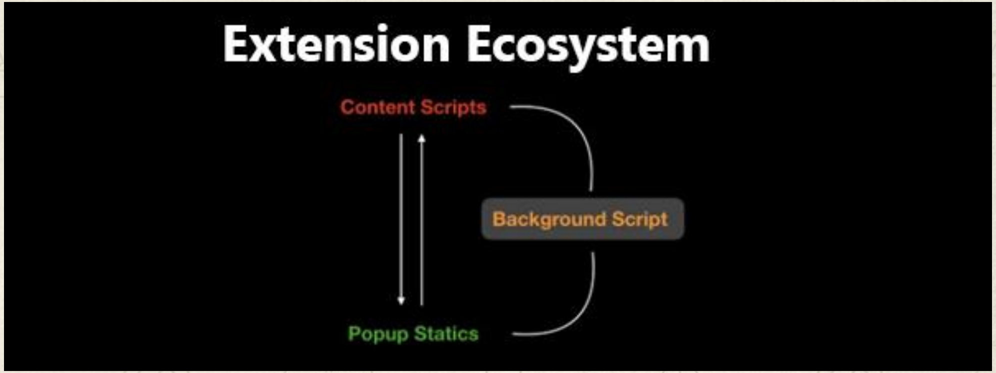
Ecosystem and manifest.json

basic content of *manifest.json* file.

```
{
 "name": "My plugin",
 "version": "0.0.1",
 "description": "Description...",
 "manifest_version": 2
}
```



A extension is your **website code + manifest.json**



Chrome APIs

They provide a way for your extension to ask Chrome to do stuff for you. You can ask about the users’ tabs, get access to their downloads, to their browsing history, cookies etc. With some exceptions, each API is coupled with a particular permission. And all permissions are registered in the ***manifest.json***

1. Tabs API
2. Cookies API
3. Storage API, etc...

```
{
 "name": "My plugin",
 "version": "0.0.1",
 "a": "description of the plugin",
 "manifest_version": 2,
 "permissions": [
   "tabs",
   "storage"
 ]
}
```

Let's Practice

Important Links

1. **JSforce** **-** Salesforce APIs
   https://jsforce.github.io/
2. **Chrome Extensions Doc-** for quick syntax of methods and try out code easily.
   https://developer.chrome.com/docs/extensions/
3. **Chrome Web Store -** Register as a Chrome Web Store developer
   https://chrome.google.com/webstore/devconsole
4. **Publish your extension -** Publish in the Chrome Web Store
   https://developer.chrome.com/docs/webstore/publish/

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ANY QUESTIONS ?

Slides & Source Code Available on:
https://github.com/Nisar-99/Salesforce-Chrome-Extension

in nisar99 @Nisar_999

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Thank You!

Let's succeed together!