CSCI4140 - Tutorial 12
Assignment 3 Part 2
Simplified iReserve Bot

Week 13

Calvin, Kam Ho Chuen (hckam@cse)

9 Apr 2015

Outline

- Points to note about assignment.

- How to get iReserve Sample Code.

- Brief Flow of the extension.

- Debugging methods.

- How to submit it

- (Specification is coming 😫 and still updating too..

iReserve Bot

iReserve

Background Script

jQuery(if neccessary)

Manifest.json

Action Script

ocrad.js
*Include them into your extension source

popup.html

popup.js

Points to Note.

- Beware of "Content Security Policy" (CSP)

  - Some of the features do not work:

    - Inline Javascript will not be executed.

    - Only local script and and object resources are loaded

  - More Details: https://developer.chrome.com/extensions/contentSecurityPolicy

iReserve Page

- The Source can be found at:
  https://github.com/calvinkam/CSCI4140-iReserve

- You can Download or git clone it to your local machine and test it.

- Default Username/Password is (csci4140@cse.cuhk.edu.hk/opensource)

iReserve Page

- The Source can be found at: https://github.com/calvinkam/CSCI4140-iReserve

SSH clone URL
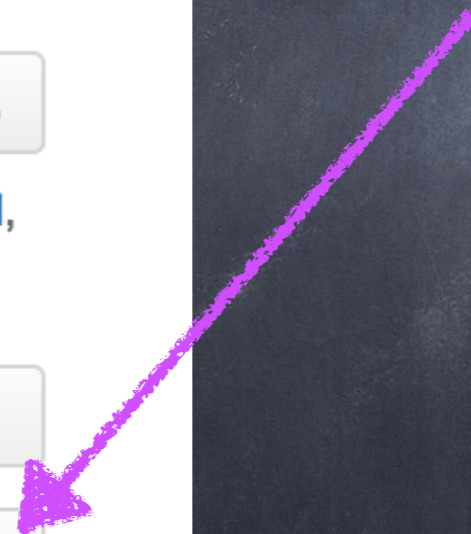
git@github.com:calv:

You can clone with HTTPS, SSH, or Subversion. ?

🖥 Clone in Desktop

☁ Download ZIP

iReserve Page

- The Source can be found at: https://github.com/calvinkam/CSCI4140-iReserve

```
Calvins-MacBook-Pro:CSCI4140 Calvin$ git clone git@github.com:calvinkam/CSCI4140
-iReserve.git
Cloning into 'CSCI4140-iReserve'...
```

Points to note...

- In Assignment's demo the iReserve Code may not be the same!

- We will change the text field's ID, username, password and etc..

- Never Hardcode the above things.

Flow of iReserve Bot Extension

- Load the Extension.

- Icon should be shown next to the address bar. (Browser Action).

- Initialize the storage space if it runs for the first time.

- Inject the content script if the target URL is matched*

- Allow user to modify settings in popup page.

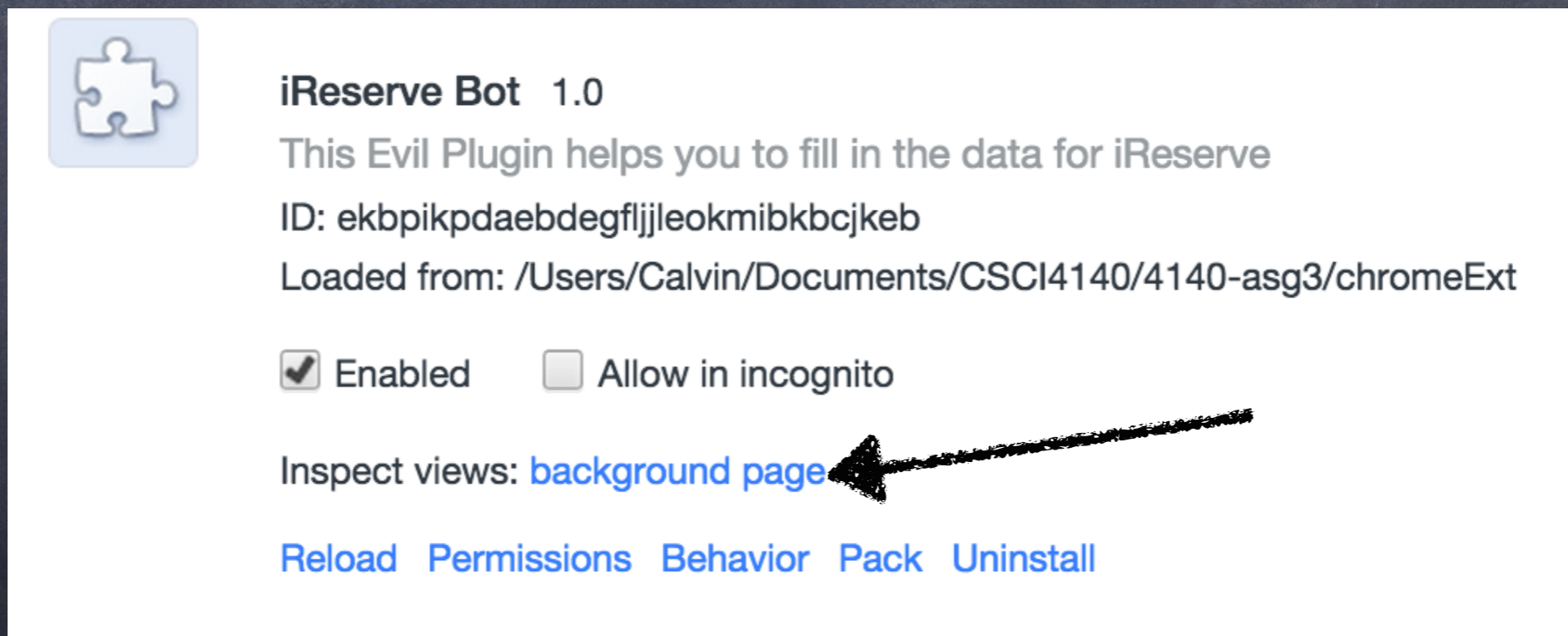- Fill the form with stored data, run the OCR Engine.

- Submit the form.

*Injection Target

- Please specify "http://*.rhcloud.com/*" in your manifest to allow wildcard injection to any openshift application.

Debugging

- Tool: Chrome App & Extensions Developer Tool
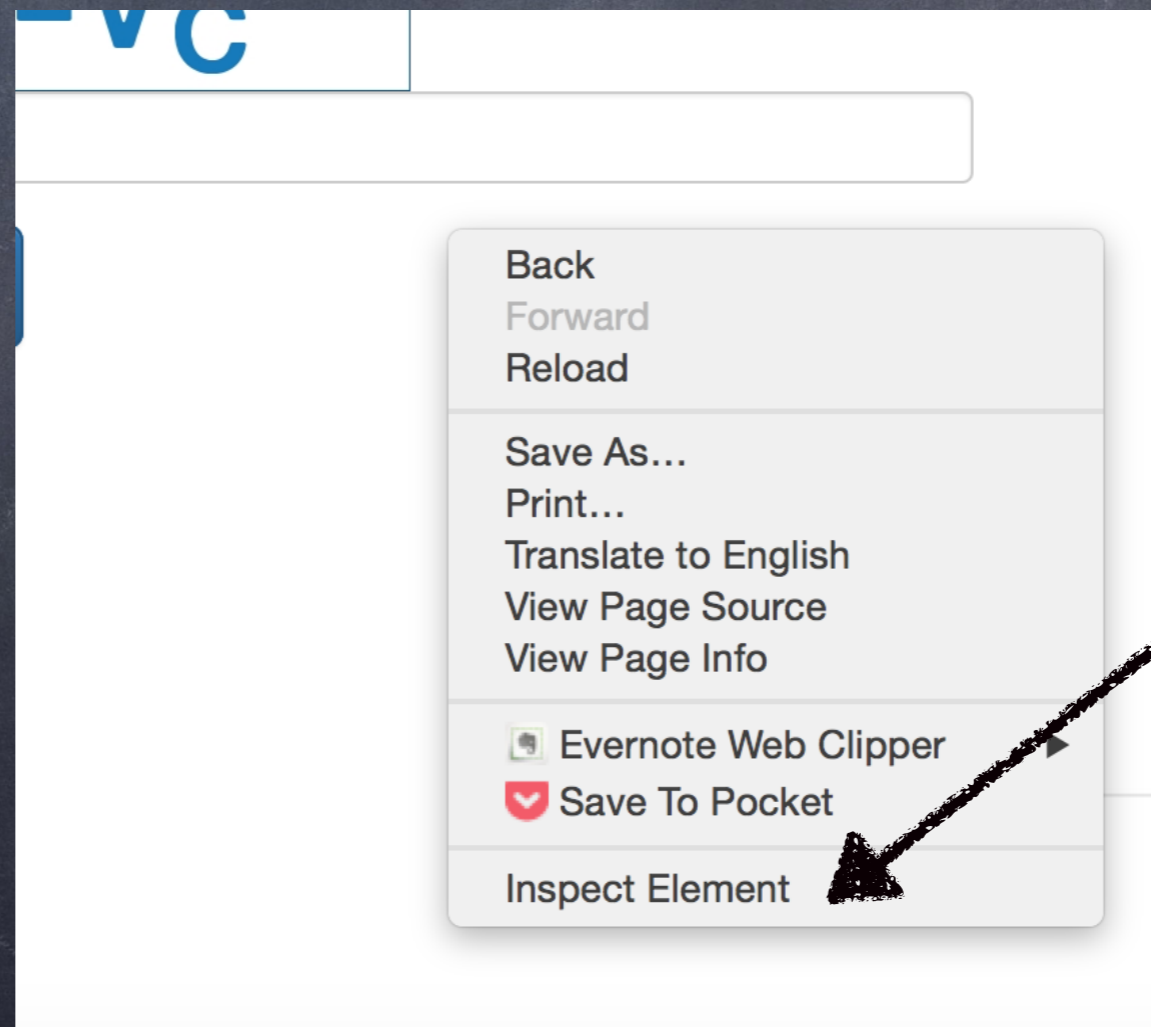
- Background Script:

Debugging

- Tool: Chrome App & Extensions Developer Tool

- popup script: right click on browser action.
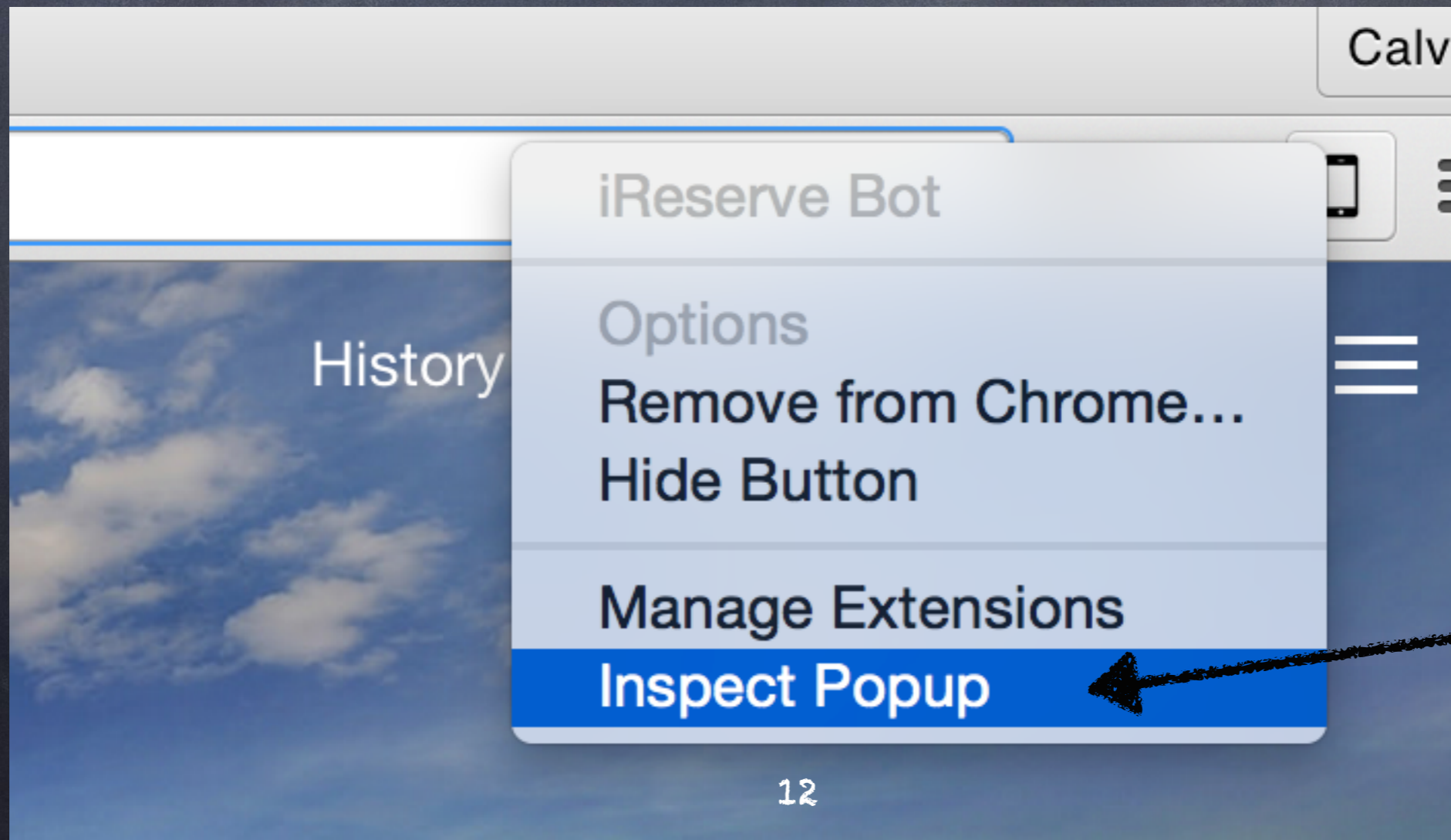
Debugging

- Tool: Chrome App & Extensions Developer Tool

- content script: inspect directly from the webpage.

CheckList

- How do I define a Chrome Extension? [Tut 1].

- How do I save data locally? [Tut 2].

- How do I access the DOM Object? [Tut 1].

- How do I manipulate the webpage object? [Tut 1].

- How do I recognize the character? [Tut 2].

Submission

- Submit your extension to the gitlab just like before.

  - git push to asgn3 repository in GitLab.

- No need to submit the iReserve Page.

Good Luck :)

- Free free to find me if you have any question.

- Drop me a line at hckam@cse.cuhk.edu.hk

- or Facebook Group.