# HAR Parser for Express Apps

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### Introduction:

- Chrome DevTools is a set of web developer tools built directly into the Google Chrome Browser.
- DevTools can help us diagnose problems quickly, which ultimately helps you build better websites, faster.

## **Need for HAR Parser**

- In the existing "Performance Profiling A Developer's Guide", we are currently following a manual approach to get the page load and API response times using chrome dev tools.
- · Using this HAR Parser Tool, reduces lot of manual efforts and leaves more space for analysis and optimisations.

#### Features:

- 1. Supports both angular and LWC framework.
- 2. Multiple HARs can be parsed at once, which can be viewed in different tabs of the HTML report

### **HAR Parser Tool:**

1. The tool, takes HAR files captured from Chrome Dev tool as an input Parses the HAR contents Displays the information in HTML format, for the further analysis.

## **Prerequisites for HAR Parser Tool**

- 1. Python installation Link Python3
- 2. Pip installation link pip
  - a. curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py
  - b. sudo python3 get-pip.py
- 3. Additional dependency installations: pathlib, dateparser
  - a. pip3 install pathlib
  - b. pip3 install dateparser

# **HAR Parser Implementation:**

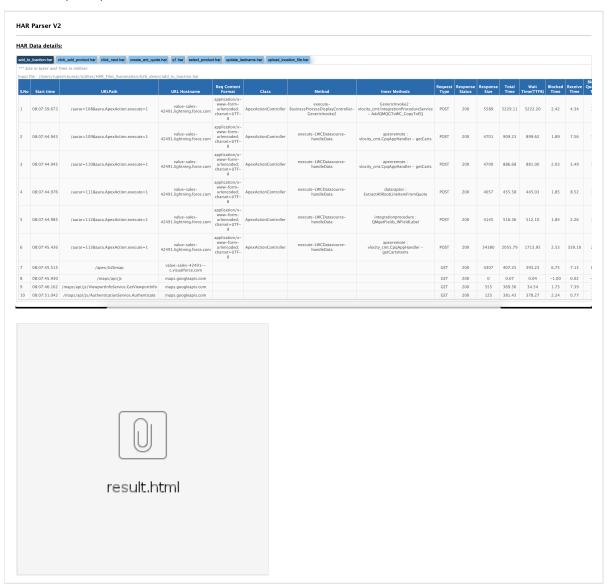
# 1. HAR Files Extraction:

- a. Navigate the business flow twice to get the browser warm.
- b. Download the HAR files of the business flow transactions (page load) on the 3rd iteration
- 2. HAR Parser usage:
  - a. Do the required installations as mentioned above.
  - b. Download the program code from Bitbucket from the below path.
    - Script location: https://bitbucket.org/vloc/psr/src/master/Utilities/SingleUserAnalysis/ExtractionOfHARfiles/
    - or you can use the latest Script (as of 29 Oct 2020): here
  - c. Store the folder containing the code in a location  $% \left\{ 1\right\} =\left\{ 1$ 
    - i. Folder Name ExtractionOfHARfiles
      - 1. README file
      - 2. run\_har\_parser.sh file (HAR Parser Code)
  - d. Open the terminal at the "ExtractionOfHARfiles" folder.
  - e. Run the below code,
    - i. bash ./run\_har\_parser.sh -i <<HAR file or derectory path>> -o <<Output Directory name>>

- 1. bash ./run\_har\_parser.sh command to run the ".sh" file. ( where the harparser code resides)
- 2. -i <<HAR file or derectory path>>
  - a. Takes the input directory where the HARs are stored.
  - b. Individual har file can be provided separated by ,
- -o <<Output Folder name>> The command outputs details of the HARs in the HTML & CSV format( | separated ). We just need to give a name, the command creates a folder automatically on the mentioned name. If an Output File Name with given name exists, the script will show following error and exit

mkdir: <<Output Folder name>>: File exists

# 1. Sample Output:



# **Demo Recording:**

HAR Parser Demo (2020-10-28 at 02\_03 GMT-7).mp4

**Attachment** 

