Smart Bookmark Sorter

# Background

The World Wide Web is a big place. Most web surfers have experienced the use of bookmarks. A bookmark is a link stored on the local machine for quick access to the website. Due to the ease of which bookmarks are made, they tend to grow in number very quickly. The problem is then how to best organize bookmarks so that the user may access them quickly, but make it such that they are always neatly archived.

# Purpose

Sort bookmarks intelligently and with minimal user intervention.

# Functional Requirements

## User Requirements

1. Bookmark Sorter shall Archive bookmarks into folders based on Category of content.
2. Bookmark Sorter shall Prioritize folders based on Frequency of use.
3. Bookmark Sorter shall not noticeably affect the performance of the Browser.
4. Bookmark Sorter shall perform most of its functionality in the background without any user intervention.
5. Bookmark Sorter shall be available on the Chrome Web Store.

# Nonfunctional Requirements

## Use Cases

1.

## Security

As with all Chrome extensions, the user must trust that the extension is not sending sensitive data to the outside world.

# System Architecture

## System Requirements

1. Categorization shall be done using an external API that when queried with a link, returns its category.
2. Prioritization shall be done based on the browser’s history and local counters for each bookmark.
3. Bookmark Sorter shall support

## Subsystem Requirements

### Categorization Subsystem

1. Categorization Subsystem will use proxies to send requests to the Yahoo Search API.
2. Prioritization Subsystem will move bookmarks in an O(1) operation.