# SNPPR

**What is SNPPR?**

SNPPR is a web application that users can utilize to quickly share multiple images and links with contacts and to create a permanent page with this content.

**Things to do to set up the project:**

* Create a new repository in Github
* In Terminal, clone this new repository (git clone [https://github.com/charlespark/”new\_repository\_name”.git](https://github.com/charlespark/\”new_repository_name\”.git)
* cd into the “new\_repository\_name”
* Create the new rails project (rails new “new\_repository\_name” --database=postgresql
* Add this project in git (git add .)
* Commit this project in git (git commit –m “Commit message”)
* git push origin master
* Set up the models
  + User
  + URL
  + Image
  + Personal
  + Web

**Application setup**

* When users go to any web site that has pictures, they can copy the link and then paste it directly into a text box on the SNPPR page.

**Right-click Functionality**

* They’ll be able to right-click on the image/link and add it to a clipboard or auto-populate the SNPPR page. This right-click functionality will be accomplished via a Chrome extension.

**Drag and Drop Functionality**

* If users are logged in, they’ll be able to share their personal images stored on their local machine via Drag-and-Drop functionality (similar to Gmail and Yahoo! Mail). In this instance, images will be stored on the SNPPR database, in order to provide hosting and provide a thumbnail for each image.
* NOTE: all images and links will have thumbnails of the image (or screenshot of the page in-question). “Image Magick” will provide a fair amount of this functionality.

**Authentication**

- Users can log in and access their saved pages as well as have the ability to upload pictures from their own personal computer (locally-stored images)

* Two pages
  + Page 1
    - Empty text-entry boxes are on the page, for users to fill in so that a new link will be created to house the permanent page of content.
  + Page 2
    - This is where the permanent page of content will reside.

Areas of Research

* Shortened URLs
* Scraping Data from Links
* How to Distinguish between Personal and Image (web link images versus offline)
* Drag and Drop functionality (i.e. Yahoo! Mail)
* Chrome Extensions
* Shortened URLs and APIs
  + Google Search
    - <https://www.google.com/search?q=how+to+shorten+urls&oq=how+to+shorten+urls&aqs=chrome..69i57j0l5.6657j0j7&sourceid=chrome&es_sm=91&ie=UTF-8#q=URL%20shortener%20API>
  + <http://www.programmableweb.com/news/71-url-shortener-apis-bit.ly-google-url-shortener-and-tiny-url-open/2012/10/31>
  + Google URL shortener (<https://goo.gl/>)
    - API Documentation (<https://developers.google.com/url-shortener/libraries>)
  + <https://bitly.com/> (API <http://dev.bitly.com/links.html>)
  + TinyURL.com
    - API information (<http://tiny-url.info/open_api.html>)
    - Creating a TinyURL via JQuery/AJAX

<http://stackoverflow.com/questions/1414145/create-tinyurl-via-jquery-ajax-call>

* + - Creating a TinyURL via JavaScript

<http://stackoverflow.com/questions/17395063/getting-tinyurl-in-javascript>

* + Yourls.org
    - API Information (<http://yourls.org/#API>)
  + Readability.com
    - API Information (<https://www.readability.com/developers/api/shortener>)
  + Documentation
    - <http://www.webopedia.com/quick_ref/20-ways-to-shorten-a-url.html>
* **Scraping Data from Links**
  + <http://stackoverflow.com/questions/15284594/scraping-data-from-multiple-links-within-a-site> (there’s no guarantee this is good information)
  + <https://www.youtube.com/watch?v=gDWYtXr8Fhg>
  + Mechanize Gem
* **Adding Right-Click options to Chrome**
  + <http://superuser.com/questions/179347/can-i-add-right-click-options-in-google-chrome>
  + <http://stackoverflow.com/questions/5927072/how-to-customise-google-chrome-to-add-search-options-on-a-right-click>
  + <https://developer.chrome.com/extensions/contextMenus>
  + <https://chrome.google.com/webstore/detail/context-menu-search/ocpcmghnefmdhljkoiapafejjohldoga?hl=en>
  + <https://productforums.google.com/forum/#!topic/chrome/5Gv38YFpTKs>
* Drag and Drop functionality (i.e. Yahoo! Mail)
  + Dropzonejs.com