# SNPPR

**What is SNPPR?**

SNPPR is a web application that users can utilize to quickly share multiple images and links with contacts and 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/\)~~)~~
* ~~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 home/input page.

**Right-click Functionality**

* Users can 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

**Updated Calendar**

As of Friday, October 3, Ian continues his work on the API. The slight hurdle he overcame today is that he changed the name of the URL class to be Links, in an effort to eliminate confusion with the term URL being called as an object in Ruby.

For the weekend, we will make some small progress

Ian – Ruby / API / Back-end

Satinder – JavaScript / Update Drag-and-Drop functionality / Front-End

Charles – RSpec tests scripts / PivotalTracker update / Documentation / Schedule