

CS 349 Web Widget Proposal: News Feed from Various UW Sources

By: Wei-En Wong and Rebecca Thomson

Overview:

The purpose of this web widget is to provide a “one-stop shop” for people on UW Campus to find relevant news about the University. The news will be categorized based on its sources.

News sources would include:

- UW Imprint
- UW’s News Page
- Reddit (UW Subreddit)
- The Chevron
- Waterloo Daily Bulletin

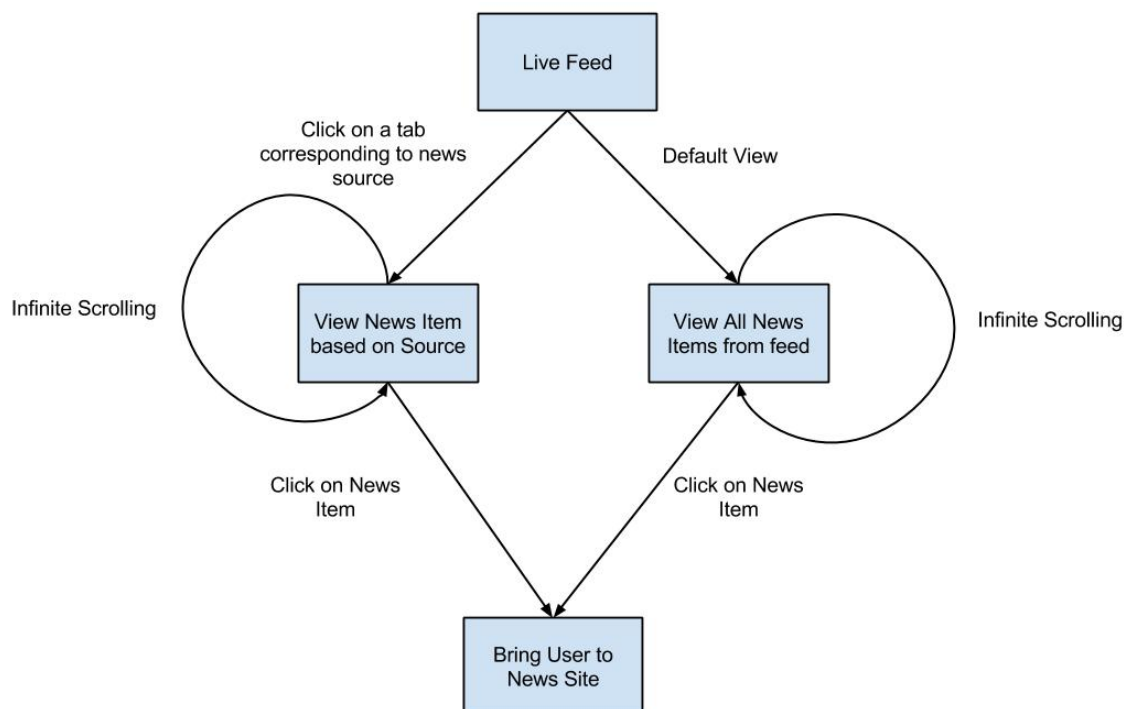
Web Services Used:

The web services we will use will include:

- The UW News Open JSON API
- The Reddit JSON API
- Waterloo Daily Bulletin RSS Feed
- UW Imprint and The Chevron: Extract data by parsing their HTML

External Librar

Interaction Sequence Diagram:



Interface Schematics:

Name of widget	
All news	news 1 news 2
Headline of News Item Author site link	
Headline of News Item Author site link	
Headline of News Item Author site link	
Headline of News Item Author site link	
Headline of News Item Author site link	

Challenges that we may run into:

- Size restriction of the widget may limit the amount of content displayed to the user, as well functionality (less space means smaller, fewer buttons)
- Filtering data from outside sources that are relevant to UW, ie: the data retrieved from the Reddit API may be contain more than just news
- Getting data from sources that do not provide a web service: this means we will need to write a web scraper, specific to the website, that will retrieve the data for us