

## FemFinder – Design Document

**Objective:** The objective of FemFinder is to aggregate news about women and women's issues in a centralized place so that users do not have to scour the web to find the articles they are interested in. Since FemFinder is an RSS reader, users can add all of their favorite news websites, and it will filter out anything that does not pertain to women.

### Actors:

- User: This generic user represents any person who is interested in more easily consuming news about women and women's issues.

### Use Cases:

- User adds a news feed
  - Actors: User, Application
  - Pre-conditions:
    - User has the Mac OS X operating system
    - User has the URL of the news feed they want to add
  - Trigger Action: User clicks plus button to add a news feed
- User refreshes all news feeds
  - Actors: User, Application
  - Pre-conditions:
    - User has the Mac OS X operating system
    - User has already added news feeds to the reader; it is not empty
  - Trigger Action: User clicks the refresh button
- User searches for articles relating to a specific topic
  - Actors: User, Application
  - Pre-conditions:
    - User has the Mac OS X operating system
    - User has already added news feeds to the reader; it is not empty
  - Trigger Action: User types query into search bar
- User opens an article using the internal browser
  - Actors: User, Application
  - Pre-conditions:
    - User has the Mac OS X operating system
    - User has already added news feeds to the reader; it is not empty
    - User has internet access
  - Trigger Action: User double clicks on an article title

## **Workflow:**

- User adds a news feed
  - User clicks the plus button to add a new RSS feed
  - Application modal pops up
  - User inputs the URL of the news feed and clicks OK
  - Application analyzes articles in feed for relevance to women and will display only those
  - New RSS feed appears in the sidebar
- User refreshes all news feeds
  - User clicks refresh button
  - Application analyzes any new articles for relevance to women
  - New articles related to women appear in the feed
- User searches for articles relating to a specific topic
  - User types query into search bar
  - Application fetches those articles in the feed relating to the search query and displays them
- User opens an article using the internal browser
  - User double clicks on an article title
  - Application opens internal browser displaying the webpage of the article

## **Requirements:**

- Functional
  - Application must be able to extract plain text from HTML to be analyzed
  - Application must be able to accurately determine if an article is related to women using a machine learning algorithm
- Non-functional
  - Application shall run on the Mac OS X operating system
  - Application shall be open source
  - Application shall be intuitive and easy to use, taking the user only an hour at the most to learn