

Functionality and Design Decisions

Functionality *provided* in final submission:

- Picture caching of the stories related to a feed.
- Caching stories.
- Summarizing stories.
- Like/Disliking stories.
- 'Favoriting' stories.
- Viewing favorites of other members.
- Commenting on stories.
- Viewing member profiles.
- Profile statistics.
- User Authentication.
- Search.
- Automatic Categorization.
- Search suggestions.
- Resizing of cached images.

Functionality *not provided* in final submission:

- Complete test suite.
- HTML5 and CSS3 compliance.
- User respect or achievements.
- Scalability
 - The website as it is doesn't scale very well due to caching to disk, doing a lump update of the feeds (cron job).

Weighty design decisions bearing on final functionality:

- Authentication subsystem
 - Using devise for the authentication subsystem was a valuable decision as it fast tracked much of the learning revolving around implementing an authentication system. Devise is also fast because it acts without loading the whole rails stack.
- HAML for creating views
 - HAML has significantly reduced our prototyping time by removing the redundancies when writing html.
- Extensive use of plugins
 - The use of significant plugins available in the rails community reduces the utility code required from the start of a project and offloads the maintenance to other developers.
- View hierarchy re-use
 - By creating generic aspects of the site such as footers and headers in separate views it helps maintain a DRY methodology.

Review and Further Development

Knowledge Development

- Teamwork and communication skills.
- RSS under rails.
- Feed fetching with e-tags for efficient updating.
- Pismo keyword extraction for categorization (as used on coder.io).

Issues and Problems

- Query efficiency
 - For example the front index page has a query complexity of n+1 where under load the site would probably become unusable in its current state.
 - Because we chose to use a premade library for dealing with likes and dislikes this has already implemented this problem within it.
 Because we were trying to fast track development we chose to use it anyway.
- Unexpected time for implementation of aspects of site (underestimation of time required).
- Time management.
- Being attacked by zombies.

Further Development

- 'Ajaxify' the site.
- Real-time comments.
- Respect or adding a game aspect for users.
- Profile integration with github or other code related sites (stack overflow).
- Improve Scalability.
- Integrate push requests for updating of feeds.