08

**Fall**

**Darcy Laycock | Nicholas Barret | Robert Gillman | Sam Winterton**

CITS4230 - Project Documentation

# 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
* User Authentication

## Functionality *not* *provided* in final submission:

* Complete test suite

## 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

## 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.

## Further Development