



CITS4230 - Project Documentation

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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