Links

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Objectives and scope of project

- "Links" is a website offering bookmarking services with the specific requirement being that it should be deployable on a private server within an organization.
- The purpose is to enable people in an organization to share bookmarks with each other.
- The specific benefit delivered by "Links" is that sharing/publishing of bookmarks can be controlled at the required level of granularity.
- At a design level, "Links" is intended to be an extensible, modular system with an exposed API. Third parties must be able to write plugins and applications using this API.
- It is envisioned to seemlessly fit into the "share" motto of the net community, be it through simple email or through popular social platforms like facebook and twitter.

Functionalities

- Provide for user accounts/signup.
- Provide for website bookmark management.
- Provide for management of user groups for sharing bookmarks.
- Provide for options to share website bookmarks amongst users and groups.
- Provide options to push website bookmarks onto popular social media and via email.
- Provide an api interface for third party clients.
- Provide an api interface for plugins to hook in and extend the functionality.

Technology

- Ruby
- Rails
- Javascript
- Mysql, Redis, and one data store.
- Debian(Wheezy) OS

Architecture and design

- Architecture diagram
- Low level DB design
- Plugin architecture diagram

Standards to be followed throughout the project

The project conforms to the following standards:

- Separation of Concerns as laid down by MVC framework.
- Conventions over Configurations as laid down by Rails framework.
- DRY Don't Repeat Yourself as laid down by Rails framework.
- Mapping resource to the URLs as laid down by REST architecture.

Brief summary of work done

- Requirements collection SRS document
- Design
 - HLD
 - LLD
- Learning of relevant technology Sample blog application
- Prototype for links

Plan for remaining work

- Design for DB-decoupling Before 5th May
- Implementation 10th May to 25th May 2014
- Testing 26th May to 29th May 2014
- Reviews 30th to 1st June 2014
- Re-work and debugging 2nd June to 22nd June 2014

Software engineering process/tools/methods

- Version control through git
- Author and feature branching
- Testing scenarios
- Proof of concept for REST API's by developing an android client for "Links"
- Proof of concept for Plugin API's by developing sample plugins
 - Share through social media
 - Share with groups through email
 - Tag suggestions
 - Bookmark suggestions