Portal_Documentation

This is an outline of information relevant to the architecture and maintenance of the portal, with links to further documentation where appropriate.

1. Portal architecture
   ♦ Essential support services / servers
     1. Git code repository
     2. Sourceforge repository
     3. Redmine project management / wiki for the portal
     4. NEMO wiki (this site)
     5. Master spreadsheet that lists all portal form fields and has development notes. Check out from sourceforge svn:
       ```
       $ svn co
       https://nemoontologies.svn.sourceforge.net/svnroot/nemoontologies/RDFdata/working/DataAcquisProv2RDF_spreadsheet
       ```
   ♦ Three application server environments
     1. Local development on a laptop/desktop
     2. Development server: http://dev-portal.nemo.nic.uoregon.edu
     3. Production server: http://portal.nemo.nic.uoregon.edu
   ♦ Components required in all environments
     1. Database: PostgreSQL 8.x
     2. Language support: Ruby 1.9.2p180
     3. Web application framework: Rails 3
     4. Version control: Git client
     5. Deployment: Capistrano
   ♦ Additional components required in dev/prod environments
     1. nginx web server
     2. Web app implementation details
       2. Authorization with CanCan
       3. Field wrappers
     4. Nav bar
     5. CSS styles
     6. Object hierarchy

2. Administrative tasks in the portal
   ♦ Adding a portal user in conjunction with [new NEMO user steps](http://www.nemo.nic.uoregon.edu).
   ♦ Managing existing users: add "/users to base server URL, whether on dev, prod, or local server. User roles.
   ♦ When ontology is updated: Refreshing ontology terms, db-onto-maps, and field annotations in the portal.
   ♦ Managing field annotations

3. Development tasks
   ♦ Check out code from git repository to a local dev environment and work on it locally. Includes checking back in and other git workflow.
   ♦ Deploy code to dev/prod servers with Capistrano.
   ♦ Perform database dumps and loads
   ♦ Change database schema with migrations