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
`
   ♦ Three application server environments
     1. Local development on a laptop/desktop
     2. Development server: [http://dev-portal.nemo.nic.uoregon.edu](http://dev-portal.nemo.nic.uoregon.edu)
     3. Production server: [http://portal.nemo.nic.uoregon.edu](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].
   ♦ **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**