IT 475: Open Source Software Lab
Final Assignment List
1. **Study of Various Linux Distributions and there purpose with comparisons:**
   Goal:- To know Various Linux Distrobutions and theit Purpose
   Stduent Must study atleast 2 Linux Distro, with their comparisons and installation on Virtual
Box.
   In Journel they have to write information of that distro, such as:-
   i.   Various verions of that distro with condename
   ii.   Default desktop GUI
   iii. Main purpose of that
   iv.   Package managemnt of that distro
   v.   List of Default Packages
   vi.   ScreenShots of that distro

   Reference :-
   i.   List of Linux Distros:- http://distrowatch.com/
   ii.   For installation on Virtual Box:- http://www.psychocats.net/ubuntu/virtualbox

   Deadline For Submition:- 08/02/13

2. **Study Of Various Open Source tools and their Comparisons:**
   Goal:- To know various open source softwares that we use in day to day life
   Students have to study atlaest 3 various open source tools / softwares that they uses and their
day to day life, with their instalaltion and configuration on their system
   In journel, they have to write information about that tool such as:-
   i.   Purpose behind that tool
   ii.   Various versions of that tools
   iii. Installation and Configuration of that tool
   iv.   How to use that tool

   Refernce:-
   i.   Wikipedia List Of Softwares:- http://en.wikipedia.org/wiki/List_of_free_and_open-source_software_packages
   ii.   Open Source Software Mega List :- http://www.datamation.com/open-source/open-source-software-the-mega-list-1.html
   Deadline For Submition:- 08/02/13

3. **Study of Version Control System used in Open Source Software Development**
   Goal:- To know about Version Controll System in Open Source
Students have to study GIT or SVN and their working, with example on both Windows and Linux
Platform
   In Journel, They have to write Basic Information about GIT or SVN and their working with
   Commands
   Reference:-
        i. GIT Official Documentation:- http://git-scm.com/documentation
        ii. SVN Official Documentation:- http://svnbook.red-bean.com/en/1.7/index.html

   Deadline For Submition:- 08/02/13

4. **Study of CMS softwares**
    Goal:- To know Content Management System and their Uses
    Students have to study atleast 1 CMS such as, Moodle, Drupal, Joomala, MediaWiki, etc
    In Journel, They have to write,
    - *i.* Installation On Linux Platform
    - *ii.* How to Use
    - *iii.* ScreenShots

    References:-
    - *i.* Drupal Tutorials:- http://drupal.org/documentation/customization/tutorials
    - *ii.* Moodle Tutorials:- http://docs.moodle.org/22/en/Moodle_video_tutorials

    Deadline For Submition:- 08/02/13

5. **Study of Open Source Software Developemnt for Ubuntu (Topic 3rd in Syllabus):-**
    Goal:- To know open source software developmentin Brief
    In this studnet have to study open source software development process in brief. They can choose any Linux tools for understnading,
    Below is sample of Ubuntu Developemnt:-
    - i. Development Communities:- http://www.ubuntu.com/community/
    - ii. Mailing List:- https://lists.ubuntu.com/
    - iii. IRC channels:- https://wiki.ubuntu.com/IRC/ChannelList
    - iv. Ubuntu Wiki:- https://wiki.ubuntu.com/
    - v. Ubuntu Version Controll:- https://code.launchpad.net/ubuntu
    - vi. Ubuntu Bug Tracking:- https://bugs.launchpad.net/ubuntu
    - vii. Ubuntu Localization :- https://translations.launchpad.net/ubuntu
    - viii.   Ubuntu Documentation:- https://help.ubuntu.com/community
    In Journel you have to write the process of any tool in Brief.
    Deadline For Submition:- 15/02/13

6. **Compilation and installation of various Linux Kernel Version:**
    Goal:- To know how to compile and install Linux Kernel on own System
    In this student have to leran compilation and installation of Linux Kernel on their machines (Fedora 17 in Lab).
    Each batch have install separate Linux Kernel Version,
    For B1 = v3.8, B2 = v3.7 B3=v3.6 B4=3.5 B5=3.4,
    Refernce:-
    - i. Installation Of Linux Kernal on Fedora:-
      http://www.howopensource.com/2011/08/how-to-install-compile-linux-kernel-3-0-in-fedora-15-and-14/
    - ii. Lates kernel installtion on Fedora and Cent OS:- http://www.tecmint.com/kernel-3-5-released-install-compile-in-redhat-centos-and-fedora/
    In Journel you have to write the process in Brief.

    Deadline For Submition:- 22/02/13

7. **Study Of RPM/DEB package building:-**

   Goal:- To know package building process in Linux

   Student have to study RPM or DEB package building for their simple C, C++ or JAVA codes. They must build an rpm or deb and install it through package manager such as YUM or APT-GET

   Refernce:-
   i. Build Simple rpm pakcage:- http://rhce.dposs.org/index.php?title=Build_a_simple_RPM_that_packages_a_single_file
   ii. Fedora rpm doc:- http://fedoraproject.org/wiki/How_to_create_an_RPM_package
   iii. Simple DEB package for your C code:- http://linuxconfig.org/easy-way-to-create-a-debian-package-and-local-package-repository
   iv. Simple DEB build guide:- http://askubuntu.com/questions/90764/how-do-i-create-a-deb-package-for-a-single-python-script
   v. DebPackage Build Youtube:- http://www.youtube.com/watch?v=nhoRyd2CEVs

   In Journel you have to write the process in Brief.
   Deadline For Submition:- 01/03/13

8. **Various Server Installation and their Uses**

   Goal:- To know server instalations and Configurations on Linux Platform

   Student Must install and configure atleast 2 servers, such as FTP, HTTP, TELNET, NFS, etc. All configuration must be done on Linux Platform

   In Journel, they have to write installations, Configurations and Screenshots of server on which they worked

   Refernces:-
   i. Server World:- http://www.server-world.info/en/
   ii. Yolinux :- http://www.yolinux.com/
   Deadline For Submition:- 15/03/13

9. **Developement of Open Source Software**

   Goal:- To know how actuly open source softaware is developed with Licesing

   Develope a simple software for basic needs such as Calculator.
   Student Must follow following ruls:-
   i. Language:- C, Python or Perl
   ii. Version Control :- GIT or SVN
   iii. Package Building:- deb or rpm
   iv. Translation:- Marathi or Hindi
   v. Documentation:- Use Mallard for your Help pages
   Refernces:-
   i. GIT version control Tutorial:- http://git-scm.com/documentation
   ii. SVN :- http://michael-zamir.blogspot.in/2012/01/svn-tutorial.html
   iii. Transltion :- http://www.tuxamito.com/joomla/index.php/es/component/content/article/60-gettext-tutorial
   iv. Using Malarad:- http://projectmallard.org/about/learn/tenminutes.html
   In Journel you have to write the process in Brief.
   Deadline For Submition:- 05/04/13

Note:-
   i. All Experminets Must Be in softform, created using Lyx or Bacoma
   ii. Submit all assigments to http://10.10.13.38 on time