Project Activity Report-5

Project Title: “Build a GNU/Linux Distribution”

Team members: Faculty Guide:

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* This time, We are focusing on debian package management.
* Debian Package management is to produce packages for developed software in linux system.

**WHAT IS DEBIAN PACKAGE?**

Packages generally contain all of the files necessary to implement a set of related commands or features. There are two types of Debian packages:

* Binary packages, which contain executables, configuration files, man/info pages, copyright information, and other documentation. These packages are distributed in a Debian-specific archive format; they are usually distinguished by having a '.deb' file extension. Binary packages can be unpacked using the Debian utility dpkg (possibly via a frontend likeaptitude); details are given in its manual page.
* Source packages, which consist of a .dsc file describing the source package (including the names of the following files), a .orig.tar.gz file that contains the original unmodified source in gzip-compressed tar format and usually a .diff.gz file that contains the Debian-specific changes to the original source. The utility dpkg-source packs and unpacks Debian source archives; details are provided in its manual page. (The program apt-get can get used a frontend for dpkg-source.)

**WHY TO BUILD?**

* As per above explanation, We can redistribute our software to other people so that they can also use to it in their system.

**WHICH PACKAGES?**

* We are going to build debian packages for following software or utilities.
  + Gujarati Dictionary:
    - English-Gujarati dictionary is default dictioanary in opengujarat but if other people want to install in their system then they can install via downloading debian files from following repository.
      * <https://github.com/codejar-lab/oguj-dict-pkg>
  + Gujarati Transtaltion Packages:
    - Opengujarat OS is developed in Gujarati. We have translated it component vise.If others want this translations into their system then they can install via downloading debian files from following repository.
      * <https://github.com/codejar-lab/oguj-trans-pkg>

Other packages are going to be explained in next PAR after completion of its development.

**ENHANCEMENT TO DMLINUX**

* This time we are focusing on dmlinux distribution also.
* Following enhancement is done to cop up with latest releases and development of linux packages.
  + Firefox update to latest version 19.0.1
  + Android SDK is going to be pre-installed so Android programmers can do direct programming after installing setup.
  + Aptana Studio 3 is going to be pre-installed for web developers.
  + Linux kernel updated to 3.8.2
  + GNOME Shell updated to 3.6.4
  + Liberoffice update to latest version 4.0
  + Some icons are updated because its not visible in some format.

**References**