

Preliminary Project Information Report(PPR)

Project Information

Objective:

- To develop a free and open-source GNU/Linux distribution for developers(mainly coders,programmers,software engineers) and other distribution(Optional) as per requirement of BISAG for Gujarat in regional language(Gujarati).

About hosting of project:

DMLinux : Project hosted on [Github Link](#)

OpenGujarat : Project hosted on [Github Link](#)

Scope:

- Scope for DMLinux:
 - Developers,Coders,Programmers,Software engineers
- Scope for OpenGujarat:
 - BISAG,Offices of Govt. of Gujarat, and other regional people of Gujarat

Project schedule



Software testing/Quality assurance arrangements

- For live testing or quality assurance tools:
 - Hardware : LAPTOP,PC as live disc
 - Software : VirtualBox,qemu

Detail specification of project

DMLinux:

- Development of GNU/Linux distribution for Developers,Coders,Programmers,Software Engineers.

Features of DMLinux:

- Productive GUI(DE)
- Language support like python,perl,ruby,etc.
- Inbuilt essential IDEs like eclipse,netbeans,Qt
- Inbuilt android development SDK support with eclipse
- Markdown support
- Inbuilt Hardware based programming IDE like Arduino,Logisim

- Customized DE with Eye-candy theme and icons
- Inbuilt Web server (Apache,tomcat and Glassfish)
- Aptana studio IDE for web developers
- Customised Firefox with FirefoxOS application development toolkit for mobile phones
- Linux app development utilities like quickly toolkit
- ISO size : around 3 GB

System modules of DMLinux :

Core Module:

- This module contains all core files means Kernel,device drivers,network utilities,etc. This will be available in Ubuntu minimal disc(27 MB). We are not going to touch this files for development.

Application module:

- This module contains all necessary applications needed for software developers.
- All inclusion of application is based on our analysis and reviews of some developers working in some companies and our alumni.
- We will try to develop following application after completion of system build.
 - Auto ON Utility : Boot PC at given user time when PC is already in shutdown.
 - LAMP front end : Apache MySQL and PHP front end to manage this running services
 - Repo-cloner : Local server package management utility
 - Multi Document converter : source markdown to multiple document format conversion

Desktop Environment module:

- This module contains desktop environment provided in DMLinux. We have choosen GNOME Shell 3.6 as Desktop environment for DMLinux.
- We will customize gnome shell to make more usefull and productive then its original version.

OpenGujarat:

- A development of Gujarati GNU/Linux distribution as per requirement of BISAG.

Features of DMLinux:

- Developed in Gujarati
- Very lightweight
- can run with 256mb RAM
- Inbuilt Gujarati dictionary(developed by us) support
- Simple Desktop Environment having Windows type mock-up
- ISO size : around 900mb

System modules of OpenGujarat :

Core Module:

- This module contains all core files means Kernel,device drivers,network utilities,etc. This will be available in Ubuntu minimal disc(27 MB). We are not going to touch this files for development.

Application module:

- This module contains all necessary applications needed for simple tasks.

- All inclusion of application is based on requirement of BISAG.
- We will try to develop following application after completion of system build.
 - English to Gujarati Dictionary

Desktop Environment module:

- This module contains desktop environment provided in DMLinux. We have chosen XFCE 4.1 for OpenGujarat.

Detail of tool-sets

- Common tool-sets for developing system
 - UCK toolkit, Remastersys toolkit, chroot commandline utility, shell-scripting, python libraries,
- Tools sets for developing applications
 - Quickly development toolkit, Zenity framework, YAD framework, Glade for GUI

Information about student

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