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GUI Based Linux Re-mastering Tool

Greetings!

I wish to take on the development of a GUI based tool for Linux re-mastering as a part of Linux's participation in Google Summer of Code.

This would greatly increase the open source distribution ability of the Linux Operating System. It would enable the non tech users to create mini versions of the operating system to suite there specific needs.

Deliverables

Required

1. Create a GUI application for adding the Linux modules that are needed.
2. Tool to create an image file of the selected modules.
3. Provide the user with the ability to make mini versions of the Linux such as :
 - Internet Linux – The operating system with a web browser and the bare minimums to make the user access the internet.
 - Multimedia Linux – Include the multimedia tools and also log-in scripts to switch on the graphic card and other hardware required to run the resource hungry applications.
 - Office Linux – Will contain only applications required for office usage.
4. The “mini Linux” given the ability to be stored on a USB based storage device and also booting capabilities from the USB device.

Optional

5. Give the user freedom to name and create his/her own default operating system types.
6. Non code deliverables include documentation and tutorials that will elaborate on the usage of the tools developed.

Project Details

Currently there is no way available for non-tech users to exploit the “open source” concept of Linux. The tool will aim to bridge this gap and make give proper meaning to the term.

The first step in implementing the project will be to create a package that will bring together the files and folders that are critical for the operating system to work i.e. the kernel of the system. Those files and folders with in addition to the customized packages will comprise of the mini OS.

Another important front-end tool will be to create drag and drop facility for the user to import required programs into the OS. The application will also have the ability check for updates whenever connected to the Internet.

There is an almost unlimited list of additions possible for this tool and I would like to work on them even after the Google Summer of Code program concludes.

Bio

I am a third year undergraduate student at Sardar Patel Institute of Technology, Mumbai, India. I am pursuing my B.E. in Information Technology at that institute. I have been passionate about computers and electronic gadgets since my childhood.

I have been tinkering around with python and Google Android for a few months. Although I do not have professional experience with python I am sure that I will learn fast.

I have a strong foundation in C, HTML and XML. I am sure I will be able to apply my programming fundamentals for the project and I don't think you will find me lacking any of the technical skills required for the project.

I have been a keen user of the Linux operating system for the past one year or so. This gives me the ability to perceive things as a developer as well as an end-user.

Lastly I would like to express my deep commitment to this project, the Linux community and free software philosophy. I would love to continue providing my services to the community even after the Google Summer of Code program commences. I guarantee that I take full responsibility of maintaining the modules and tools that I create during the program.

Please don't hesitate to contact me if any part of the proposal is not clear to you.

Thank you for considering my proposal!