This page is an open list for ideas related to Pardus

Timeline:

March 18-23: Would-be student participants discuss application ideas with mentoring organizations.

March 23: ~12 noon PDT / 19:00 UTC Student application period opens. [at Google]

April 3 Student application deadline

Mailing list and IRC:

You can ask more detailed questions about projects to our GSoC list: [1]

We're also on IRC: **#pardus-devel** in Freenode network. Just drop in and ask your questions.

Google's Summer of Code IRC channel ist **#gsoc** in Freenode.

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Project Ideas

Pardus

KDM Face Recognition Support

Description: Most modern laptops have webcams now. Face recognition authentication support could be integrated into KDE4. A pam plugin called pam-face-authentication is developed for GSoC 2008 as OpenSuse project. A trainer module needs to be written for KDE4 system-manager. Also face recognition support has to be integrated into KDM.

Requirements: C, Python, KDE, OpenCV, PAM knowledge

Mentors: Gökmen Göksel, Onur Küçük

Resources:

- http://code.google.com/p/pam-face-authentication/
- http://opencv.willowgarage.com/wiki/
- http://www.kernel.org/pub/linux/libs/pam/

OpenOffice.org Turkish Grammar Support

Description: Pardus integrated zemberek for Turkish spell checking wherever possible but there is no project to support grammar checking for Turkish language. This is also very needed for an Office Suite. There is a project called LanguageTool that can be used for this purpose.

Requirements: XML, Java

Mentors: Gökçen Eraslan

Resources:

- http://www.languagetool.org/
- http://code.google.com/p/zemberek/

KDM Fingerprint support

Description: Most of the modern notebooks come with a fingerprint detection peripheral attached. These devices can be used for authentication in KDM and other areas of KDE. A program for identification to store user ids and and some patches to KDE to support this authentication system will be needed.

Requirements: C, Python, KDE, PAM knowledge, Fingerprint backend

Mentors: Gökçen Eraslan

Resources:

- http://en.wikipedia.org/wiki/KDE_Display_Manager
- http://www.reactivated.net/fprint/wiki/Main_Page

Pulseaudio Manager for KDE4

Description: Fully KDE4 integrated Pulseaudio controlling system that can replace paprefs and pavucontrol applications.

Mentors: Ozan Çağlayan, Onur Küçük, Gökçen Eraslan

Resources:

- http://www.pulseaudio.org/
- https://fedoraproject.org/wiki/Features/VolumeControl

Bugzilla Applet for KDE4

Description: Bugzilla is a bug tracking system widely used by Pardus and several open source project like Mozilla, RedHat, KDE, etc. It would be nice if we have a simple KDE4 application which will popup after an application crashed and provide a way to send bug reports with needed tracing informations attached.

Mentors: Ozan Çağlayan, Gökçen Eraslan, Gökmen Göksel

Resources:

- http://bugs.pardus.org.tr
- http://bugzilla.org
- https://wiki.ubuntu.com/Apport
- https://fedoraproject.org/wiki/Features/CrashCatcher
- background check

Web based image creation tool for Pardus

Description: The aim of this project is to create a web based application for building customized CDs and ready-to-run images for VMs. Web based UI and services can be built with Python. For image building backend, Pardusman - Pardus' own CD image creator which uses PiSi and COMAR frameworks - can be used as a starting point. Virtual machine (may be Parallels, VMware, Xen, Microsoft Virtual PC, QEMU, Usermode Linux, CoLinux, Virtual Iron, VirtualBox or other virtualization technology) image building parts are to be developed from scratch, while most of the installation or live media creation features are complete in Pardusman.

Requirements: Python, web based application development knowledge, general package management and virtualization knowledge

Mentors: Ekin Meroğlu, Ozan Çağlayan

Resources:

- http://svn.pardus.org.tr/uludag/trunk/pardusman/
- http://www.nongnu.org/qemu/qemu-doc.html#SEC15 (QEMU image creation)

Mentors

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