

Proposal Summer of Code 2008.

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Summary: First I'll finish the generic syncing framework by implementing category syncing. After that I'll port the record based conduits to the generic syncing framework, starting with the PIM based conduits using Akonadi. Finally I'll polish KPilot as much as possible so that it is ready for the 4.2 release.

- Who are you? What are you studying?
I'm Bertjan Broeksema a 24 year old master student at the university of Groningen (<http://www.rug.nl/informatica>). My specialization is software engineering and distributed systems.
- What exactly do you intend to do? What will **not** be done?
Last year I implemented a generic syncing framework for KPilot (<http://www.kpilot.org>). This was a great success but due to lack of time after the SoC I was not able to do the finishing touch. Therefore my proposal is as follows: In this summer I'll implement and test category syncing¹ in the generic framework. After that I'll port the the conduits, starting with the PIM oriented conduits (address book, calendar, todo). Taking in account that the feature freeze for 4.1 is already in the beginning of April, the aim of this project is to make KPilot functional for the 4.2 release. Therefore these conduits will make directly use of Akonadi.
If there's time left I'll start working on porting the other conduits which are record based (memofile, notepadconduit). I won't start working on conduits that cannot be based on the generic framework unless there's still enough time left.
- Why are you the right person for this task?
Because I have a palm m515 myself I'd really like to see KPilot up and running somewhere in the KDE4 series. I really like the integration of my handheld and the PIM applications of KDE. Also we decided previous year that we wanted KPilot for the KDE4 series and did a great amount of work to get this done. The previous SoC was part of this work, the code is ported to Qt4 and I already started on the category syncing (which is a long wanted feature).
- To what extent are you familiar with the software you're proposing to work with? Have you used it? Have you read the source? Have you modified the source?
As mentioned before I worked earlier on KPilot, and therefore I'm very well known with the code base. I also started working on a test framework for category syncing.
- How many hours are you going to work on this a week? 10? 20? 30? 40?
In June I'll be finishing a full time internship so the first 3 to 4 weeks will be partly used for the Summer of Code (around 10 hours). After I finished my internship I'll be able to work 30 hours a week on the project.
- Do you have other commitments that we should know about? If so, please suggest a way to

¹ Sync category of the hand held record with the categories on the pc side. This needs some thinking because a hand held database only supports 16 categories at most and only 1 category per record. While most pc applications support more than one category per record.

compensate if it will take much time away from Summer of Code.

First commitment is the internship (see above). There will also be a one or at most two week holiday included in the period. If this leads to serious time shortcoming I'll make longer weeks (Hours ~40) in Juli and August to finish the stated goals above.

- Are you comfortable working independently under a supervisor or mentor who is several thousand miles away, not to mention 12 time zones away? How will you work with your mentor to track your work? Have you worked in this style before?
I'm perfectly comfortable working independently under a supervisor at any part of the world. Previous year I had a mentor who lives in the USA and we had really no problems with the communication. I prefer contact via IRC.
- If your native language is not English, are you comfortable working closely with a supervisor whose native language is English? What is your native language, as that may help us find a mentor who has the same native language?
I don't mind to work with an English speaking mentor. However, my native language is Dutch. I live in the Netherlands.
- Road map:
 1. Finish the already started test framework and implement category syncing.
 2. Investigate Akonadi and compare that with the old conduit code to see if I can reuse some or most of the old code.
 3. Port and test the PIM based conduits (Calendar, Todo, Contacts).
 4. Port and test the other record based conduits.
 5. Polish the code.