

MEDFLOSS & Open Source Software Components

Database of medical Open Source Softwares and
promotion of more collaborations

See

<http://www.chos-wg.eu/Projects/main-MEDFLOSS.html>

Open Source working group of the IsfTeH, International
Society for Telemedicine

Etienne Saliez

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Medfloss.org

- We assume here you are already familiar with Medfloss.org
- A large inventory of several hundred Open Source medical software projects.
- However collaborations remain relatively poor between Open Source projects.
- Could any project as GNUHealth alone make everything needed ?

Objectives

- Promotion of the reuse of shared software components.
- The potential benefits of the Open Source philosophy is mainly based on know-how exchanges and on sharing development efforts.

Approaches

- Trying to install large software "packages" in any new site remains difficult.
- The approach is here to share at least selections of smaller "software components".

Requirements analysis

- The first question is to try to define what we ideally need.
- Try to make a clear distinction between what is of “common” interest and what are “additional” adaptations. Some discussion material:
<http://www.chos-wg.eu/Modules/Modules-Overview.html>
- The next question will be to find what we can achieve in the coming year.

Technical objectives

- Review of integration architecture available in the public domain.
- Allow collaborations between components in different programming languages.
- Allow collaborations between different servers.
- Resilience to poor internet communications.
Non blocking communications.
- Easy maintenance.

Considered approaches

- "Event based", as ReactiveX, <http://reactivex.io/>
- A component emit an "event",
- The event contains a payload, data type identification, data and "callback" request.
- Other modules acting as "Observers" can get the event, process it and create new event(s).
- These new event can be observed back by the inial actor.
- Modules remains largely independent.
- Events are "non blocking" the sender.

Medfloss as a graph ?

- Of course Medfloss has already excellent search functions, but could graph technology be useful to navigate in this large database of OPEN Sources projects ?
- Seek the interrelated functionalities I need.
- Check the dependencies.

Call for partners

- Call for partners willing to try this perspective and to provide evaluations.
- Existing medical software projects need only to add interfaces with well defined messages and according to <http://reactivex.io/languages.html>
- <http://www.chos-wg.eu/Projects/main-MEDFLOSS.html>
- Contacts: etienne@saliez.be and tkaropka@gmail.com