

Health and hospital information system

Country of origin | Spain

Health problem addressed

Health centers in resource poor locations have deficiencies in the management of patient and hospital information. This solution provides a platform that optimizes and improves the patient and hospital information management using free software.

Solution description

It is free software and is designed to be multi-platform, so it can be installed in different operating systems (GNU/Linux, FreeBSD, MS Windows). It uses Python as the programming language, PostgreSQL as the Database engine and Tryton as the development framework.

Functionality

The health documentation portal explains how the solution works and is available at:

http://en.wikibooks.org/wiki/GNU_Health

Developer's claims of solution benefits

It is an eco-friendly solution (100% paperless). Its free software policy is a warranty of cost reduction and sustainability - basic features needed in emerging economies

Future work and challenges

The main challenge of the project is to continue raising awareness for the use of free software in public health.

User and environment

User: Physician, nurse, midwife, self-use/patient, family member, technician

Training: United Nations University IIGH will deliver training in a 5-day duration course.

Settings: Rural, urban, at home, ambulatory, primary (health post, health center), secondary (general hospital), tertiary (specialized hospital)

Reviewer's comments

This solution is applicable for low-resource settings as it is free; works in different operating systems, and with the modular approach is customizable to the local needs of hospitals and health centers. It is available in English, French, Spanish and can be easily translated to local languages via the tryton module translator.

Solution specifications

Solution is used to support: Decision support systems, Diagnosis and treatment, Electronic Health Record/ Electronic Medical Record, Geographic Information System, Management of patient information, Management of hospital information, Public health surveillance

Standards: ICD10, ICD10-PCS

Country used in: partial list of government portals, organizations and health centers involved with GNU Health: <http://health.gnu.org/community.html>

Software/Hardware requirements: Server and client workstation, laptop, mobile devices and stable continuous supply power supply. Free Software licensed under GNU Public License.