

- SPECIFICATIONS OF ANNUAL FEE FOR HARDWARE/SOFTWARE/SERVICES

SERVER (HARDWARE)

Brand and model: Dell PowerEdge R210

Cpu: Intel Xeon L3426 1.86 GHz Quad Core

RAM: 8 GB DDR3-ECC

Hard disks: 2x 1 TB SATA 7200 rpm Controller RAID Hardware 0,1

Additional backup device: 2x Pen Drive USB3, 32GB

Operative System: Windows Server 2012 R2 Standard 64bit

Connection: 1 Gbit/s (guaranteed 100%, max 25 TB/month)

SECURE SOCKETS LAYER (SSL)

Authority: DigiCert SHA2 Secure Server CA

Electronic algorithm signature: sha256RSA

Validity: 2016-04-05 14:00:00

HARDWARE SUPPORT

Installation

Test

Parts substitution

Optimization

Hardware migration when needed

Controlled physical access

Humidity controlled environment

Temperature controlled environment

Redundant connectivity

Redundant electricity

fire prevention and fire fighting system

SOFTWARE SUPPORT

O.S. installation

O.S. test

O.S. updates

O.S. migrations for major releases

Application installation

Application test

Application updates

Application migrations for major releases

Daily backups of database and application

DOMAIN

Annual renew of rettdatabasetwork.org **domain registration**

- DATABASE SOFTWARE IMPROVEMENTS:

a) **improvement of management interface to obtain an increase of data coverage**

- add specific instructions in the entire system and in particular in each fields of the insert/modify form

- improve the compatibility of application with the latest browsers

- improve the UX (user experience) of the application and, in particular, the usability of the GUI (graphical user interface): to ease in learning and to make it more effective

ANALYSIS, DEVELOPMENT AND TEST

ESTIMATED WORK: **ABOUT 45 HOURS**

ESTIMATED COST: **ABOUT 2500 € VAT INCLUDED**

b) implementation of patient's longitudinal data management

- analysis of database structure
- selection of fields involved in longitudinal data
- planning of longitudinal data management
- planning of longitudinal data mining system
- development of new database schema compatible with longitudinal and non longitudinal data
- development of a database migration procedure
- development of new GUI form tools to manage longitudinal data
- development of new application procedures able to manage longitudinal and non longitudinal data
- development of new data mining system to retrieve longitudinal and non longitudinal data
- global application test with the new database, the new GUI and the new procedures

PLANNING, ANALYSIS, DEVELOPMENT, MIGRATION AND TEST

ESTIMATED WORK: **ABOUT 250 HOURS**

ESTIMATED COST: **ABOUT 13700 € VAT INCLUDED**

c) data mining system improvement

- improve the search tools of the GUI
- improve the functionality of the database mining system
- add filter to the results pages to refine the search
- add patients' subset selection system at the beginning of the search procedure

ANALYSIS, DEVELOPMENT AND TEST

ESTIMATED WORK: **ABOUT 70 HOURS**

ESTIMATED COST: **ABOUT 3800 € VAT INCLUDED**