

123 en-rbdd

Research networks

Private database information : (for Eurordis only) - code : 123

Keywords : european network for rare bleeding disorders database

Summary :

Database application and security for the EN-RBD Project

Text :

The aim of the EN-RBD application is to give out a tool to collect information on Rare Bleeding Disorders patients, by editing and viewing patients' data, and performing data extraction through a query system, thus giving particular care to data security and privacy, through authentication, authorization and tracking.

We are using a web client-server technology: a database server (MySQL, a free RDBMS) and a web server to run the application (Apache, with PHP scripting, SSL encryption and authentication certificates), in order to enable any browser on any platform as a client. The application has a navigation style based on the web standard, and a contextual on-line help manual can be used at any point in the application.

Application data are aimed on the patient, but, according to European privacy laws, the main form contains limited personal data (city of origin, date of birth and an ID number), in order not to allow a direct identification of the patient. Other linked tables contain specific data about deficiency type, phenotype analysis, genetic analysis, samples collection, a template for calculating the "Bleeding Score", bleeding symptoms, surgery management, and other diseases. To update or insert new data, the user is required to perform an action (by clicking on a webpage button), in order to avoid accidental data modifications.

Some caption tables support these data, by listing the available choices. Some caption tables can be expanded by adding options to these lists.

Administration data are managed by the database administrator and contain users and operators data, password management, queries management, and contextual on-line help guide editing.

To view and extract data, a list of queries is available to the user. According to the user's need, the administrator can create new specific queries.

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