

Technical specifications for the database applications

1. System requirements

1.1. Server system:

- Apache Webserver 2.2.16
- PHP 5.3.3
- MySQL Database server 5.1.49

Why Apache?

The Apache Webserver is a free of charge, platform-independent, widely used and tested, safe application.

Why PHP?

PHP (Hypertext Preprocessor) is a widely used, open source code, general programming language with excellent web-development support and good ability for embedding into HTML.

Why MySQL?

MySQL is a free of charge, platform-independent, widely used and tested, safe application, an ideal tool for managing small and medium sized databases.

Advantages of the chosen components:

- free of charge use
- years of experience in development
- product support
- further developments expected
- independent operational system

We work with the latest, generally accepted, well-tested, stable versions of the components.

1.2. Client system:

- Browser

The application runs well under all known browsers (Internet Explorer, Opera, Mozilla, Safari, Chrome). For best appearance, Internet Explorer or Mozilla is recommended.

2. The server system in general

Queries made towards the server are received by the webserver, which forwards it to the PHP programs. The PHP program processes the parameters of the received query, and launches an operational procedure towards the database (select, insert, upgrade, delete).

The database handles data through Sql (Structured Query Language) instructions. The response given by the database is further transformed by the PHP program, then forwarded towards the browser.

3. The admin surfaces of the system

Content is uploaded in the system through admin surfaces, which ensure the user-friendly handling of the system. No programming knowledge is required for data input.

The following operations can be performed on the admin surfaces:

- Input, alteration, deletion of data on the work of art
- Input, alteration, deletion of images, files, references related to the work of art
- Input, alteration, deletion of glossary entries
- Linking of related items and glossary entries
- Authorisation and editing of comments and questions related to the work of art

Logging into the system requires a username and a password in order to avoid unauthorized entries, or “accidents” due to incompetency in using the system. It is possible to create different log-in levels, with clearly defined scopes of authority. Creating a new item in the database requires the creation of a new datasheet. The datasheet includes general information, images, links and related glossary entries assigned to the item.

After completing data input, the new item in the system becomes immediately visible for users on the search page.