

Executive Summary

D4.6: Programmer's guide for data management and service invocation

The CrossCult project has developed the CrossCult platform, which provides all underpinnings for data management and advanced functionalities needed by cultural heritage applications. Deliverable D4.6 constitutes a comprehensive guide on the following issues:

- How CrossCult data and knowledge can be accessed and managed.
- Which data sources and databases are available in the CrossCult platform and how they can be extended.
- Which services are available in the CrossCult backend, what functionalities each one offers and how each service may be accessed.
- How new services that will be integrated in the CrossCult platform can be developed and how these services can exploit the fundamental features of the CrossCult platform for interoperability, logging and monitoring.
- How new applications can be developed using the data retrieved from the CrossCult data sources and services, and how existing applications can be tailored with different datasets.

The information provided within D4.6 reflects the state of the CrossCult knowledge base and deployed services at project milestone 2 (April, 2018) and is targeted to:

1. Developers of frontend application, including developers of apps for visitors and developers of apps for other CrossCult platform stakeholders (museum curators and experts, data scientists, administrators and experience designers).
2. Developers of additional modules that will be incorporated as microservices into the CrossCult platform. For these developers, a style guide is also included to be followed in the service API design phase, to promote API uniformity and ultimately facilitate the work of API end-users.
3. Data scientists, which may use data management interfaces to access and analyze the data within the CrossCult knowledge base.

In the service API presentation section, services are grouped by functionality type, allowing developers to quickly identify the available functionalities and access the relevant API details.

Since the CrossCult platform will continue to be used in numerous contexts (the project pilots; the Living Lab; new applications that will be developed for clients), it is expected that requirements for new or enriched functionalities will emerge. These requirements will then be assessed regarding the feasibility and the cost/benefit ratio of incorporating them into the platform, and appropriate actions will be taken. Documentation on services and functionalities that will be further developed will be made available online for use by pilot app developers & Living Lab stakeholders.