



Collaborative grant scheme for innovative project ideas

Interactive cultural digital map of Montenegro (*CultDMap*)

EuropeAid/162457/ID/ACT/ME

DELIVERABLE 2.4: REPORT “ARCHITECTURE AND DESIGN OF WEB SERVICES FOR DIGITIZED CULTURAL HERITAGE”

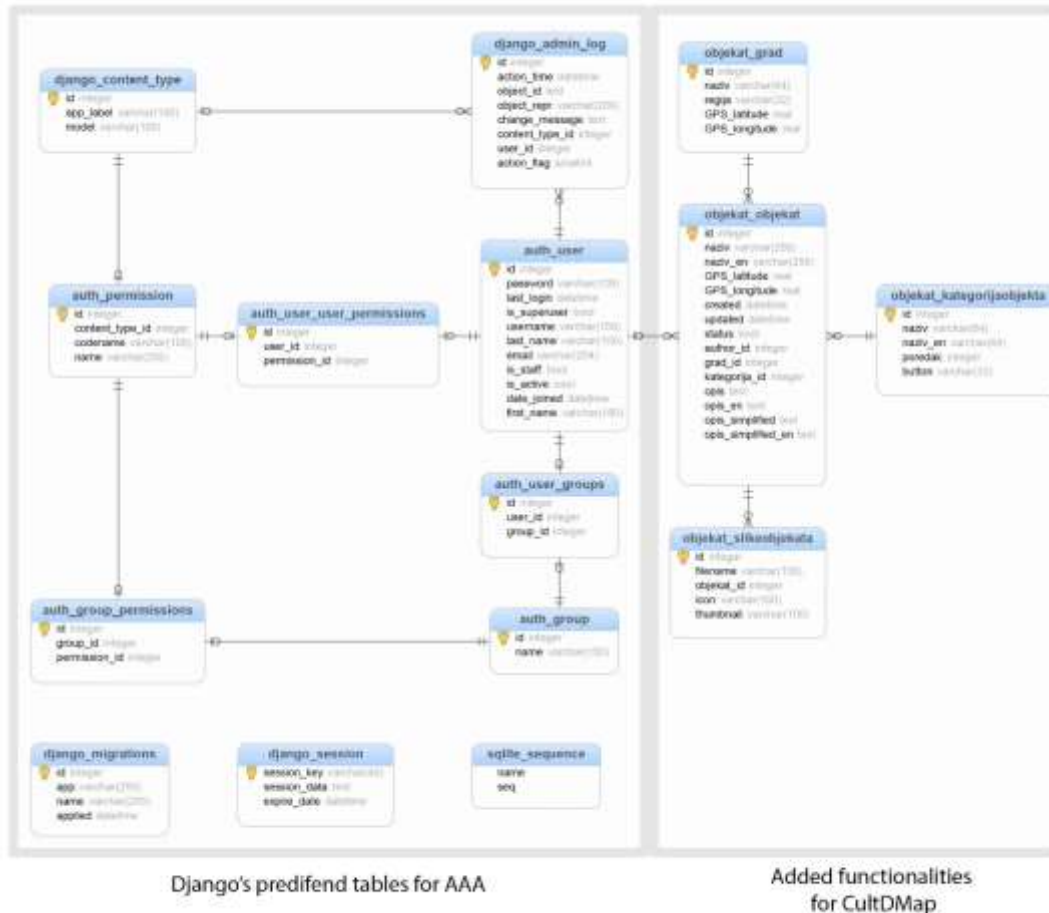
Interactive Cultural Digital Map of Montenegro CultDMap

- web portal and digital repository -

Repository and web portal for CultDMap project is developed as one of (main) goals of project. Portal development is divided into several categories:

1. backend development
2. fronted development
3. mobile development

Backend side of portal will be developed using Python programming language, Django framework and SQLite DB, Mysql or Postgresql(img 1).



Img 1. Database schema

Portal will use Django's implemented methods for AAA for users, groups, permissions and logs. Database is improved with added functionalities for project's portal: objects (title, description, GPS data), object categories and object images.

Backend of portal will consist of protected part and REST API side. Protected part will be used by portal administrators for administration of properties repository. REST API part is planned for communication with mobile applications.

Portal frontend is developed using HTML, CSS and JavaScript. They will present and visualize repository data from backend: all information about objects, their categories and interactive map with GPS positions of objects. Every object will have unique URL which can be used for QR code generation and their later use in printed material.

Mobile application will be developed in second part of project