

Abstract

The aim of the thesis is design of a spatial database and development of web application that enables graphical overview and data retrieval. The source of data is the continuous data monitoring of natural processes carried out by KFGG PŘF UK. The solution is implemented on top of PostgreSQL/PostGIS database platform and Django framework. The thesis includes an overview of tools, concepts and standards suitable to achieve the goal.

Keywords: Spatial database, Database structure design, Web application, PostgreSQL/PostGIS, Django, API