GeoNode

OSGeo
Project

GeoNode is a web-based application and platform for developing geospatial information systems (GIS) and for deploying spatial data infrastructures (SDI).

It is designed to be extended and modified, and can be integrated into existing platforms

GeoNode is a geospatial content management system, a platform for the management and publication of geospatial data. It brings together mature and stable open-source software projects under a consistent and easy-to-use interface allowing non-specialized users to share data and create interactive maps.

Data management tools built into GeoNode allow for integrated creation of data, metadata, and map visualizations. Each dataset in the system can be shared publicly or restricted to allow access to only specific users. Social features like user profiles and commenting and rating systems allow for the development of communities around each platform to facilitate the use, management, and quality control of the data the GeoNode instance contains.

It is also designed to be a flexible platform that software developers can extend, modify or integrate against to meet requirements in their own applications.

Core features

Special data recovery
- Powerful spatial search engine
- Federated OGC services
- Metadata catalogue

Interactive Mapping
- GeoExplorer GIS client
- Graphical style editor
- Create multi-layer interactive maps
- Share and embed maps in web pages

Import and Manage
- Publish raster, vector, and tabular data
- Manage metadata and associated documents
- Securely or publicly share data
- Versioned geospatial data editor

Implemented Standards

- Catalogue Service for the Web (CSW)
- Web Coverage Service (WCS)
- Web Feature Service (WFS)
- Web Map Service (WMS)

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http://geonode.org/