

ABSTRACT

The NESDI is founded by Department of Science & Technology. Govt. of India is being developed in close coordination with NESDI and NEC. North Eastern Spatial Data Infrastructure (NESDI) portal aims at facilitating the North Eastern States to make use of Geospatial technology and Geospatial Data for better local level planning and better governance. The natural resource data can be published in this portal and can be assisting through internet in this web portal.

In this major project, further work was undertaken by us, which are summarized below.

Some kind of open-source tools consisting of PostgreSQL, PostGIS, GeoServer, and GeoExt was downloaded as a freeware. This was explored and we came to conclusion that there were new and additional features compared to the GeoServer which was used in the previous version of the portal.

Earlier work content publishing and visualizing maps only with data stored in data directory of GeoServer. We have successfully completed the implementation of PostGIS table for storing and publishing of shape files using open layers facilities in the GeoServer and then publishing the map from the web portal using GeoExt.

Some data we have collected from the IT Dept. Of Meghalaya viz. Shapefile for state boundaries and district boundaries and publishing of them was successfully done by storing data in PostGIS table and publishing data using GeoServer.

WMS service facilities like GetCapabilities, GetMap; GetFeatureInfo has been successfully implemented using VECTOR data. Web service provides the ability to cross platform, architecture and language, the most important advantage of web service is the multi-platform, multi-architecture and multi-program-language interoperability on the web. Therefore, it is a good path for realizing GIS interoperability.

All these necessary pages and codes have been written to get this information searched/visualize/published by the users of the portal.