

Name of the Project	Client side Web mapping Framework
Technology	Javascript, PHP Mapsript, PostgreSQL, OpenLayers

Business

Client profile was to provide various web mapping solutions to their customers. The project demanded generation of a client side web mapping framework with rich GUI features to provide ease of navigation and data display without any server side dependencies.

Client

Client is a leading GIS Solution and data analytics provider located in Chicago North America.

Challenge

One of the key requirements of the system was to provide rich GUI features with ease of navigation similar to that of desktop based GIS systems. This posed a huge challenge in designing the client side API of web mapping framework.

The other key challenge posed was that the framework should not have any server side dependency and the map display and navigational features had to be totally separated from the server side which required a complex design of the system.

Solution

Client side web mapping framework API was built on top of OpenLayers. OpenLayers is very flexible to integrate it in any web page for web map display and is developed using pure Javascript library which supports any modern web browser.

Wrapper classes were provided for geographic data access and has support for Web Mapping Service (WMS) and Web Feature Service(WFS).

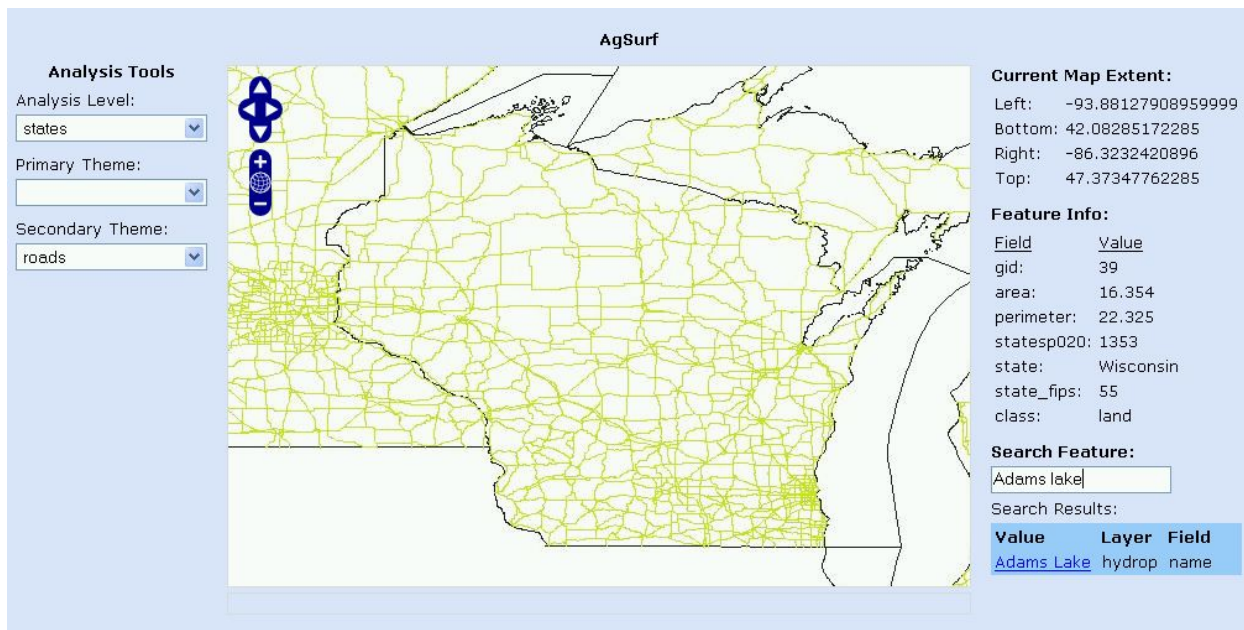
One of the key functionalities is the abstraction of map tools and navigation functionality with map data so that the client framework can operate on all data sources.

Benefits

Client side web mapping framework APU provides the following benefits

- Enhances user experience by providing dynamic and smooth panning functionalities. Smooth panning is one of the key requirements of web mapping solutions.
- Provides high speed performance as the framework is written on client side which enables faster loading of map display
- Provides API's to retrieve maps from any data source with flexibility

Snapshot of the Application



Analysis Tools

Analysis Level:
states

Primary Theme:

Secondary Theme:
roads

Current Map Extent:

Left: -93.88127908959999
Bottom: 42.08285172285
Right: -86.3232420896
Top: 47.37347762285

Feature Info:

Field	Value
gid:	39
area:	16.354
perimeter:	22.325
statesp020:	1353
state:	Wisconsin
state_fips:	55
class:	land

Search Feature:

Adams lake

Search Results:

Value	Layer	Field
Adams Lake	hydrop	name