Application Running Environment

OS: Ubuntu 16.04
Web Server: Apache 2.4
Mid-ware Server: Node.js, Express Framework
Database Server: MySql 7.8

Programming Language involved

Client Side: HTML5/CSS/DOM/JQuery/Ajax
Server Side: Node.js

Key Interactive Features

Event Trigger
Event trigger plays key role to interactive with user operation. It improves user experience a lot. The event triggers in our applications include:
Continent Menu
Country Menu
Continent Toggle
Search Box
Placemark Click
Dialogue Window

Auto Suggestion
Auto suggestion is a powerful function to allow user type less to search, and format data input for better search result. The dynamic suggestion is generated by database connection.

Country Button Jumping
A specific country button will jump on top of all buttons when it is clicked by user. This feature will help user to quickly identify which country is chosen at the time.

Placemark Dialogue
A thousand of place marks are available in our application. Each place mark has its own summary, site picture, and etc. The dialogue function has the capability to show dynamic content selected by users. This is completely relied on server side programs.

Server Side Programs
Server side programs, also called mid-ware application, make interactive communication between user browser and database. Server side programs help Javascript function customized be more powerful. Any event triggered by user, will make a specific data request to server side programs, and then server side programs will initiate a database connection and then send query instead of user request to database. Once the query result sent back to server side programs, server side programs will process a certain logic analysis and process to a readable response data to send back to clients side programs for further processing.

Features Overview

User Friendly Features	Interactive/Functional Features
Dialogue Box Auto Size/Location	Auto Suggestion
Country Menu/Button Jump	Event Trigger
Country Menu Scroll Bar	Placemark Display
Globe Location Fly-to Navigation	Layer Control Button
Banner Auto Size	Placemark Dialogue Box
	Toggle Switch