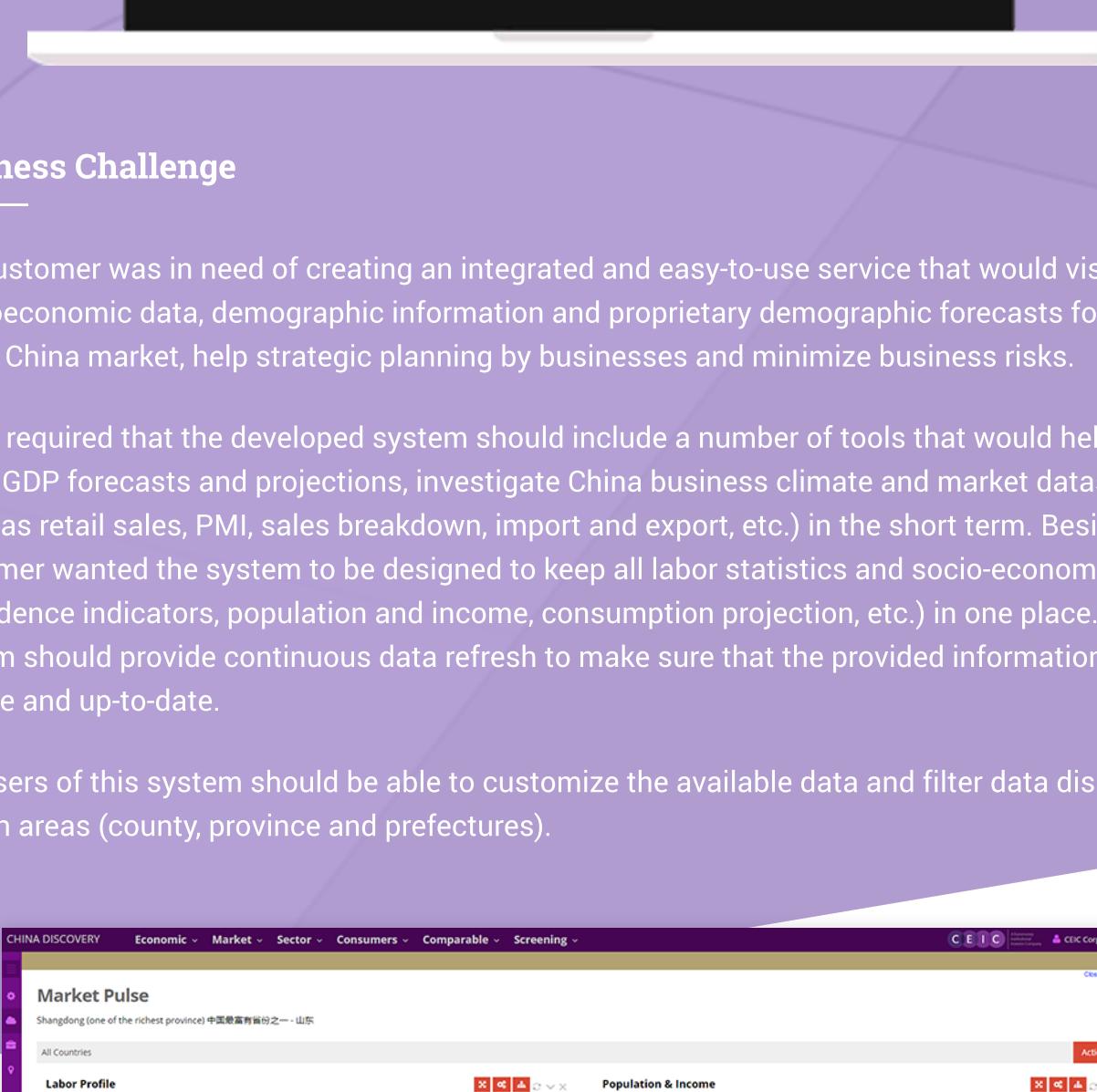


## Web-based Macroeconomic Forecasting Service

A web-based solution that gives a deep insight into Chinese market by providing accurate key macroeconomic data to facilitate decision making by economists and strategic planning professionals.



### Business Challenge

The customer was in need of creating an integrated and easy-to-use service that would visualize macroeconomic data, demographic information and proprietary demographic forecasts for the whole China market, help strategic planning by businesses and minimize business risks.

It was required that the developed system should include a number of tools that would help analyze China GDP forecasts and projections, investigate China business climate and market datasets (such as retail sales, PMI, sales breakdown, import and export, etc.) in the short term. Besides, the customer wanted the system to be designed to keep all labor statistics and socio-economic data (confidence indicators, population and income, consumption projection, etc.) in one place. The system should provide continuous data refresh to make sure that the provided information is reliable and up-to-date.

The users of this system should be able to customize the available data and filter data display by certain areas (county, province and prefectures).



### Solution

XB Software web developers team was challenged to create a web based system with a big data load (around 2 millions series in the database).

The created system was integrated with the customer's API developed in .NET to retrieve macroeconomic data provided by China state and province organizations.

Visualization and analytical tools were added to simplify data research. In addition to visualization of different macroeconomic values, our developers enabled creation of clusters to forecast future development in certain business clusters. Also, they added cluster ranking to facilitate the peer comparison of indicators across clusters.

Besides, the created service allows simple data customization by region, macroeconomic values (GDP, GDP per capita, average household income, etc.) and creation of personal dashboards. Graphics, schemes and charts can be pinned to a

dashboard for each user individually. Besides, they can be printed out as is, or downloaded as Data in Excel, PDF, JPEG or PNG.

The client side of the system was implemented with the use of Backbone, Bootstrap, Highcharts, jQuery and Underscore, Node.js, Phantom.js.

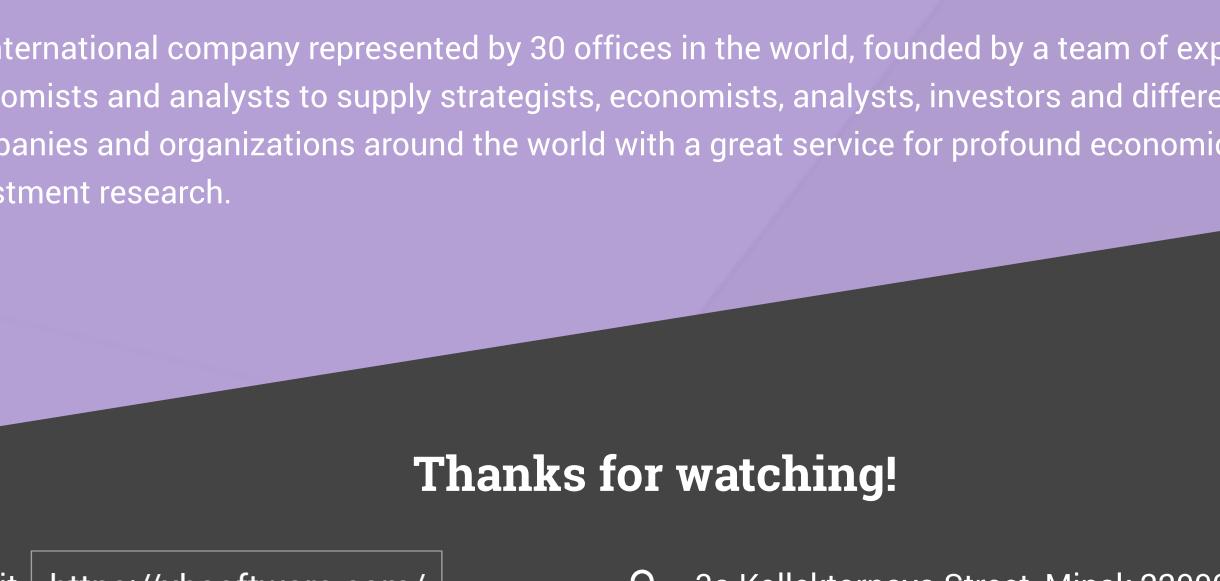
The server side was build with the use of MongoDB, MongoJS and Redis.

### Applied Technologies

BACKBONE.JS HIGHCHARTS PhantomJS

node.js mongoDB UNDERSCORE.JS

jQuery write less, do more. redis Bootstrap



### Result

Our developers' fruitful work resulted in creating of a web based macroeconomic service that allows visualization of a large amount of economic and social statistical data all over China.

The service provides up-to-date information on key macroeconomic indicators and also forecasts necessary for economic and investment research by economists, analysts, investors, corporations, etc. around the world.

The created service is user-friendly and touch-responsive. It works flawlessly on iOS and Android devices.



### Customer

An international company represented by 30 offices in the world, founded by a team of expert economists and analysts to supply strategists, economists, analysts, investors and different companies and organizations around the world with a great service for profound economic and investment research.

Thanks for watching!

Visit <https://xbsoftware.com/>

© 2018 XB Software Ltd. All rights reserved

3a Kollektornaya Street, Minsk 220004, Belarus

+375 17 200 03 40

[info@xbsoftware.com](mailto:info@xbsoftware.com)