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OTTO QUANT

App for Financial Predictions Based on Unique Mathematical Models

Development service An app for economic forecasts generation based on product owner's mathematical models Business niche Finance analytics and economic forecasting

Time spent on the project 1600 hours Technologies we used Docker, React, R, Django, AWS S3, Kubernetes

My Portfolio

CHALLENGE

Children Children

There are not many software solutions on the market that can independently generate financial forecasts

In addition, many niche professionals use outdated mathematical models, thereby producing incorrect results that do not benefit or even harm companies.

Financial analysis plays an important role in making management decisions. In particular, it helps to make management decisions related to strengthening the financial and economic condition of the enterprise. The main purpose of financial analysis is to obtain information that gives an objective assessment of the financial condition of the enterprise. At the same time, the head of the company is most often interested not only in the current financial situation of the enterprise but also in its future.



Client/Target audience

The owner of this solution is a scientist who has been engaged in statistics of various economic indicators all his

life and has his own mathematical models for predicting various indices based on his own scientific works. The application is designed for those who need a high-tech tool for financial forecasts.





Product overview

Product owner, within their scientific activities, develop effective mathematical models that allow automating tasks that previously were solved manually by financial departments of companies, relying only on their own (and often irrelevant) experience.

In turn, we received the task to transfer the obtained mathematical calculations to the software environment and create a full-fledged application in which each user could use readymade algorithms for forecasting, or build our own and share them with other users.

Our approach

We have built a user-oriented application where each of the users can create own projects. Each project in this service is a separate Docker container deployed on Amazon web servers. All mathematical calculations are written in R - the programming language.



Our development team

Our development team consisted of 10 specialists. Despite the small team, we managed to implement the project within established deadlines.



Solution overview

As a result, we received a comprehensive solution for economic forecasting. This app is based on the principles of terminal functioning. Here users can create separate accounts, with their own tariff plan (Free or Premium). This is very convenient if the particular user is engaged in economic or scientific activities.



If the user works for several companies at once, the terminal acts as a separate workspace for the user.

PM at Owlab Ivan Selivanov



Users can view research results both in their personal

 accounts and in their mails - at a selected interval, in the form of tables and graphs;

2 types of forecasts: popular predictions(e. g., the Dow
Jones index), and custom forecasts that the user can build on the basis of available data;

Premium account users can submit APIs with their own
custom predictions for third-party services. This is a very
useful feature that gives others real-time access to the
user's own research;

Two user-friendly themes (light and dark);

OttoQuant		light 🤄 dark
Main ~		
my custom projects my schedule	ed projects in house projects	indexes API access
Title	Last Update	Last Update by
MyOwnForecast	2019-06-30	kris.davion@morgan.info
CustomForecast	calculating	gisselle.cormier@maggio.co.uk
MyCustomForecast	2019-06-28	wilber.mayer@stephanie.tv
My New Forecast	2019-06-27	maynard_watsica@yahoo.com
One More Custom Forecast	draft	schulist.kaci@mayer.us
MyOwnForecast	2019-06-30	ankunding.don@hotmail.com
CustomForecast	calculating	declan.dickinson@balistreri.org
MyCustomForecast	calculating	raymundo.abbott@celine.net
My New Forecast	2019-06-27	stark.royce@mills.name
One More Custom Forecast	2019-06-26	roberts.gabriella@daphney.com
MyOwnForecast	processing	jada.mcclure@kiehn.me
CustomForecast	2019-06-29	reilly.donnell@gerlach.com



Features of the constructor of mathematical models:

In UI we have created a convenient menu for mathematical models building. It includes a huge number of indicators (region, time period, degree of approximation, etc.);

The system remembers the settings of the forecast at all
stages of building, by creating a draft. Thanks to this, the
user can close the app window in order to return at any
time convenient for him/her and continue working;

Also, users have the opportunity to download their own script in the form of a table.



Talk to us and get your project start

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