

Creation of a WEB-application for searching a vehicle for cargo transportation

Vladyslav Nikolskiy, PhD Vladislav Khotunov

Kiev National University of Technology and Design

Corresponding author's e-mail: nikolskiyv77@gmail.com, vkhotunov@gmail.com



Abstract

Nowadays, various activities of different companies do not do without very close cooperation with companies that are engaged in cargo transportation for many companies, high-quality, fast, timely delivery of various cargo is one of the most important factors that affect the development and stability of this company. For private companies, a high level of transport services is no less important, because it is a guarantee of confidence and complete peace of mind during the transportation of property. As a result, every year the interest and demand for various cargo transportation is growing and growing.

The service offered by companies engaged in cargo transportation, in addition to the actual transportation of goods, also includes insurance of transported objects, preparation of a full set of documents for this product or cargo (consignment note, invoice, certificates of conformity), as well as, if necessary, its customs clearance.

1 Introduction

“A WEB-application for searching a vehicle for cargo transportation” - this is a web application used by a PC user or any gadget on which you can install the application. The advantages of this proposal: Initially, the path of the goods or cargo originates with the design concept and the best route on which to move the load, compute, and calculate the entire cost of this delivery, preparation of all necessary documentation. Then the transport and loading facilities required for this product are determined. Then the necessary permits are issued, and the movement of goods is monitored from the beginning of the journey to the moment when the cargo is delivered. The client who will use these applications receives:

- The ability to easily choose the right transport for transportation to any city;
- Ability to track the movement of the sent cargo on the map;
- Guarantee of delivery of the goods to the recipient, since payment is made after receiving the goods.

At the same time, you are freed from the long process of agreeing with logistics departments, concluding contracts, bidding with company representatives for the cost of services, and so on. The app will allow you to transport cargo that matches existing vehicles; ability to select the most interesting and profitable orders; guaranteed payment upon completion of delivery.

Using the service, you can organize any transport services – after all, the services are provided by carriers with a variety of trucks

2 Overview

This product makes it easier to find possible vehicles by selecting transport for cargo transportation in Ukraine.

Collects the necessary data for further analysis and automatically generates operational reports in accordance with the client's requirements. Automatically plans delivery routes based on existing orders and vehicles, taking into account various restrictions (time Windows, vehicle type, weight, volume, and other cargo parameters). Users can be sure that the cargo will leave the recipient on time, or that the equipment will not be idle. This product can help you transport goods by road without wasting time and effort. And it doesn't matter whether you are the carrier or the customer – both parties benefit from using the service.

With this app you can:

- Free and prompt placement of orders by the shipper.
- Free and convenient cargo search by the carrier via the app for any gadget. Selecting a carrier based on cargo parameters.
- Real-time tracking of cargo location.
- Automatic calculation of optimal routes based on road quality. Recommended fare for transportation with the ability to adjust the rate. Database of qualified carriers.
- Transparent rating of customers and carrier.

3 Decision

Unfortunately, web applications also have weaknesses, which, of course, do not overshadow the advantages. But the latter look less attractive against their background.

For a start, the Internet is now available, unfortunately, not everywhere. And in many areas, the cost of traffic and the width of the Internet channel leave much to be desired.

In addition, there are a huge number of applications that cannot be replaced by browser-based ones (at least in the near future). For example, you can't create complex three-dimensional models in the browser.

Finally, the main disadvantage of web applications is that many users are confused by the fact that their data will be stored and processed somewhere on someone else's server. After all, this can potentially lead to leakage, loss or distortion of information (and in some cases it will certainly lead).

Not everyone will risk posting personal information online.

And one more significant detail. If all programs will work exclusively on a remote server, in the work of which you, of course, can not interfere in any way, then you will probably have to forget about all sorts of "quacks", patches and "left" serials. For any desired commercial software will have to spread "their blood" or look for free options. And this probably won't suit many people.

4 Conclusion

In the process of writing the first stage of the thesis (master's thesis), all the pros and cons of the future product were analyzed, as well as examples of using the application for users, and the main tasks of the product. This product must compete well in the market. To do this, it must be created without drawbacks, so that it wins primarily from its competitors with its plus:

Automatically plans delivery routes based on existing orders and vehicles, taking into account various restrictions (time Windows, vehicle type, weight, volume, and other cargo parameters).