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Problems of Intercity Transportation

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The transport sector is an important part of the industrial and social infrastructure of the Republic of Belarus. Over the past 30 years, there has been a steady decline in the volume of passenger traffic and passenger turnover carried out by public transport. The demand for passenger transportation services by automobile, urban electric transport and metro largely depends on the total population, the number of citizens using bicycles to travel to work and cultural and domestic purposes.

In the article there must be raised the topic of intercity transportation on the territory of Belarus and its problems. We have set a goal to meet the socio-economic needs of the population. And also, some tasks: meeting the social needs of citizens, reduce the costs of transport companies.

Since the problem of intercity transport consists of the uneven use of vehicles, the unpopularity of some destinations and low passenger turnover, we hope that our work, or rather its practical significance - the created application / website - will solve the current problems.

One of the methods of the analysis was a survey of real consumers of transport services. This survey was created in order to find out how much passengers are satisfied with the quality of services provided. The questions were given to the students of the automotive faculty, since a large percentage of the guys are nonresident, that is, regular consumers.

The questionnaire consisted of three questions. The first question was about the choice of the type of transport (road or

rail) and the reason for the choice. This was followed by the question of how much passengers like the quality of service. According to the results of the survey, out of 78 people, only 21 were completely satisfied, 14 said “no” (as it turned out later, these students live in small villages where transport is not easily accessible).

In the last paragraph of the survey, it was necessary to indicate what problems passengers notice. Most often, consumers were dissatisfied with the following: the intervals between the departure of route vehicles, insufficient number of seats.

We live in the 21st century, in the age of information technology, in which everything can be solved with the help of a phone. There are a huge number of websites and applications that facilitate the operation of the transport complex. And it is this direction that we consider necessary in solving the tasks we have set.

Therefore, we propose to create an application that will make it as easy as possible for people to access route vehicles. Compared to existing websites and applications, we will add some features of well-known products from Yandex: Yandex. Transport and YandexTaxi. Criteria that will be present in our application: number of available seats, geolocation of the vehicle, data and communication with the driver

As an example for the need of these criteria, we will consider the route "Novogrudok-Minsk". This route includes the following main stops: Novogrudok - Korelichi - Mir – Minsk.

The number of available seats is a rather urgent problem right now. We can offer our own alternative to this. The application specifies from which point passengers get to their destination (since only the driver has this information). So, everyone will be able to see the vacant number of seats to a

certain destination. In this way, we can increase the company's profit and meet the needs of passengers.

Geolocation – we would like to divide this item into 2 sub-items. Firstly, this function can be embedded, both in the self-transport and route vehicle and in the driver's phone. Thus, people can track online what time the route vehicle will arrive, and also about what time the passengers will be at their destination. That is, based on all the delays during the trip and the speed of the route vehicle, the application will approximately calculate and show in how many hours the car will arrive at this or that location. The second point does not apply for the passengers themselves, but for the people who are waiting for them. For example, parents will know where the vehicle is located, as well as their child. Therefore, this application will be convenient not only for us, the younger generation, but also for the older ones.

The passenger needs to know which vehicle will come for them. As in the applications that we indicated earlier, in ours there will be information about the car: the make and number of the vehicles, as well as the color. Also, you can find out the driver's full name and the number in the application

We live in the 21st century, in the age of information technology, in which everything can be solved with the help of the phone and Internet resources. Thus, thanks to the application we proposed, we decided to fulfill the tasks assigned to us, such as: meeting the social needs of citizens, reducing the costs of transport companies and adjusting the traffic flow on a certain route.

Thanks to the survey of real passengers, we found out that 73% of passengers are not satisfied with the quality of service of route transport facilities (17% of them are from small towns that are difficult to reach). The main problems after the survey were: the number of available seats, the geolocation of the vehicle and communication with the driver,

which are also solved using our application. Thus, if we create this application, intercity travel will become more convenient and accessible for all people who have and know how to use a mobile device.

What is the probability that our application will be a success? Our opinion is the following: the application makes it much easier to order and view route vehicles. It makes trips with comfort, and ordering a route vehicle will become easier and faster as we give a lot more opportunities. Thus, with the help of the application, we achieved the goal set at the beginning of the scientific work "to meet the socio-economic needs of the population" and also completed all the tasks set.

References:

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