

Find your petrol

We live in a very hectic world where you need a lot traveling to get any job done. That means, we all need vehicles, and, all of them need to be powered by some kind of oil. The petrols are the only places which give us that necessary supply and help us create that flow we need in order to live a normal life. That being said we think that most citizens don't have enough information about the petrols like their location, types of oils they have, working hours and, general more general information about them (information about the employees, owners - general stuff etc...) even though they have to use them very often.

This is the reason we chose this topic as our main project. We hope to help everyone who needs more information about petrols in his surrounding environment, and even more important, everyone that needs information about petrols in the area that he will travelling to, so a lot less time is spent on researching for that matter.

We will elaborate on the whole petrol map throughout our country "North Macedonia".

There are couple of main functionalities which the application consists of:

- **Filtering out petrols by address**
- **Filtering out petrols by city**
- **Filtering out petrols by name**
- **Filtering out petrols by types of oil**
- **Filtering out petrols by working hours**
- **Gathering other information about the selected petrol once filtered**
- **Sorting out petrols by every attribute they have once filtered**

In order to make this possible we extracted the details about the petrols from OpenStreetMap as our main source of information. Mapped it and filtered it all into a PostgreSQL database in order to have a reliable data for processing. The filtering was done through Bash '.sh' scripts which was using python interpreter. And finally all functionalities and front-end design of the user interface was done in Visual Studio with the help of ASP.NET.

Our group consists of 3 members:

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In order to provide the best user experience possible, we have built in all the information needed to use the software. The user interface is also very handy and intuitive. You could also leave a feedback for the application, and, contact us through the media that is left on the user interface. We would be grateful if you let us know that our time was spent on a good cause.