

## **ABSTRACT**

**The structure and scope of the work.** Guidance note of the diploma project consists of five sections, 6 pictures, 40 tables, 1 application and 3 sources.

Diploma project is dedicated to WEB-service development to support the process of selecting filtration equipment. Two options of choosing the demanded equipment were implemented. By using the first option the client chooses some criteria on his own and the service showing the equipment matching it only. By using the second option the client is able to set the particular results of water analysis and the service chooses the optimal equipment due to it.

In the general section objective environment has been described, existing analogues have been examined and statement of the problem have been presented.

In the information support section the input and output data was determined and the database scheme has been presented.

Mathematical section is dedicated to development of the algorithm for filtering equipment selection in order to water analysis results. Balashov algorithm has been taken as a basis.

Software development tools section describes the main service architecture.

In the technology section the user manual and the results of the research have been presented.

**WEB-SERVICE, FILTERING EQUIPMENT, PRODUCTS, CRITERIA**