

# Vision

## Geovolt

We are going to develop an application for students of Geology and Geophysics department in Novosibirsk State University. Our system should test student's skills of analyzing Vertical electrical sounding (VES) data.

The student will be supposed to do a task using some set of tools and send it to the teacher's account and the teacher will be able to approve or comment on the solution.

Process of doing task:

1. Student gets the data (generated or from teacher)
2. Student doing task using this data
3. Student sends his solution to teacher
4. Teacher approving or commenting student's solution
5. If teacher didn't approved solution, student makes changes and sends again

In our system, there are 2 types of users: student and teacher. The teacher will have the opportunity to assign tasks to the student.

The purpose of these tasks is to teach Department of Geology and Geophysics students to analyze seismic and electromagnetic VES data and test their skills.

The main types of tasks include:

- determine the type of soil strata using VES data.
- determine the vertical resistivity profile from VES data.
- simulate VES data from vertical resistivity profile data.

Shapovalov A. I.  
Bayusov A. S.  
Olekh L. A.