МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ  
РОССИЙСКОЙ ФЕДЕРАЦИИ

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**Отчет по лабораторной работе №4**

Дисциплина: «Project Management   
(Менеджмент разработки ПО)»

Тема: **«Scalability»**

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**ЗАДАНИЕ**

Frequent situation when the customer persistently asks to reduce the price. Or, even worse, ask to cut the budget in the middle of project. For such cases, it is worth to put an offer "with an extra margin".

So imagine the situation. Suppose you have a project described in PM Lab1, and the customer requests to reduce the total development costs by half. For some reason, it is impossible to refuse. Reducing the quality of work by hiring cheaper, but less qualified professionals is also impossible. It is necessary to reduce the functionality, reduce the scale of the project.

Describe what reductions in the scale of your project will allow you to reduce initial budget in 2 (or around it) times.

**ХОД РАБОТЫ**

In order to reduce the stated budget by 2 times, I decided to do the following. First, reduce the time for analytics and data collection for the further development of the neural network. To do this, we will need to remove some performance, for example, remove all dentists from the database and some other narrow specialists. It will also help reduce work in the second stage of development. I also decided to reduce the time for testing the application, but not to remove it completely. But even so because of this there is a risk of releasing a "raw" application.

Reducing the cost of project development by stages (like in LR1).

**Fist stage:** research, technology analysis, search, collect and data analysis. 1 month.

Number of employees, skills: 2 employee, analytical skills, experience of analysing big data.

2 employees, 5 days/week, 4 weeks, 8 hours, $8/hour => 2\*5\*4\*8\*8 = $2560

Stage budget: $2560

**Second stage:** creation and training of the neural network. 1.5 month.

Number of employees, skills: 2 employee, ability to build and train neural networks.

2 employees, 5 days/week, 6 weeks, 8 hours, $9/hour => 2\*5\*6\*8\*9 = $4320

Stage budget: $4320

**Third stage:** web and mobile interface development. 2 month.

Number of employees, skills: 3 employee, Software engineers, Mobile developer.

3 employees, 5 days/week, 8 weeks, 8 hours, $8.5/hour => 3\*5\*8\*8\*8.5 = $8160

**Fourth stage:** testing, fixing bugs. 0.5 month.

Number of employees, skills: 2 employee, QA engineer, Software engineer.

2 employee, 5 days/week, 2 weeks, 8 hours, $8/hour => 2\*5\*2\*8\*8 = $1280

Stage budget: $1280

Total time duration: 6 months

Total budget: $16320

**ЗАКЛЮЧЕНИЕ**

In this assignment I tried to reduce initial budget in 2 times by reducing the functionality of the project.