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, create mobile application only for Android in the third stage. It will also help reduce work in the first 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. For the second stage, we will choose one of the methods and implement it for our application without choosing the best method - this will reduce the development time.

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

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

Number of employees, skills: 2 employees, analytical skills.

2 employees, 5 days/week, 4 weeks, 8 hours, $4/hour => 2\*5\*4\*8\*4 = $1280

Stage budget: $1280

**Second stage:** implementation of spectral analysis based on the data of visual inertial odometry. 4.5 months.

Number of employees, skills: 2 employees, spectral analysis and visual inertial odometry skills.

2 employees, 5 days/week, 18 weeks, 8 hours, $7/hour => 2\*5\*18\*8\*7 = $10080

Stage budget: $10080

**Third stage:** Development of a mobile application and server. 1 month.

Number of employees, skills: 2 employees, Software engineers, mobile development experience.

2 employees, 5 days/week, 4 weeks, 8 hours, $7/hour => 2\*5\*4\*8\*7 = $2240

Stage budget: $2240

**Fourth stage:** testing, fixing bugs. 1 month.

Number of employees, skills: 1 employee, QA engineer.

1 employee, 5 days/week, 12 weeks, 8 hours, $4/hour => 1\*5\*12\*8\*4 = $2304

Stage budget: $2304

Total time duration: 7.5 months

$1280+$10080+$2240+$2304---->

Total budget: $15904

**ЗАКЛЮЧЕНИЕ**

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