МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ  
РОССИЙСКОЙ ФЕДЕРАЦИИ

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**Отчет по лабораторной работе №4**

Дисциплина: «Project Management

(Менеджмент разработки программного обеспечения)»

Тема: **«Scalability»**

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**ASSIGNMENT**

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.

**COMPLETED TASK**

If it is impossible to reduce the salary for the staff, then I see the only way out - to cut the project deadlines. In a shorter period, it will not be possible to have time to implement all the functionality, so you have to give up some features. You can also shorten the testing period.

In my project I decided to abandon the concept of “framework - studio”. Studio will not be implemented. The development of this part of the project takes about half of the resources invested in it. Therefore, I believe that the refusal to develop a studio is a good solution.

Next, I present a shortened commercial offer.

**Author's first, last name**

Nikolay Artamonov

**Project name**

Development of an aggregator of entertainment places with a built-in system of recommendations and an advertising platform.

**Project scientific part**

**Scientific objectives of the project**

The goal of the project is to create a quick tool for collaborative data filtering.

The goal of the project is the universal open source tool that provides recommendations based on collaborative filtering of thematic data.

**Scientific novelty of the project**

Most recommendation services use closed-source commercial code. Also, such services are not universal.

The proposed project is conceived as an easy to set up universal library for deploying your own service on almost any subject that provides recommendations to users.

**Project commercial part**

**Project results application, potential consumers**

The service provided is not just an application with a recommendation system. This is a whole customizable library that is very easy to use. Even an ordinary administrator can customize the service to fit his needs. The scope of application is limitless. Employees of bars, libraries, sections will be able to customize this service in a convenient paid studio with a user-friendly interface.

**Existing analogs, competitors**

Recommendation web-services. For example internet portal www.kudago.com

**Implementation plan by stages, time to implement, cost**

*First stage:* Writing a demo version of the library. 1 month

Number of employees, skills: 1 full-stack developer; 1 data-scientist.

2 employees, 5 days/week, 4 weeks, 8 hours, $6/hour = $1620

Stage budget: $1620

*Second stage:* Release the first version of the product. Continued development. Attracting customers through a one-month free trial period of use. Self-PR on sites for developers. 1 month

Number of employees, skills: 1 full-stack developer; 1 data-scientist; 1 PR-manager.

2 employees, 5 days/week, 4 weeks, 8 hours, $6/hour = $1620

1 employee (PR-manager), 5 days/week, 4 weeks, 8 hours, $5/hour = $800

Stage budget: $2720

*Third stage:* Continuing development. Collecting feedback from the first customers. Finalization of the framework. Testing a running library. 1 month

Number of employees, skills: 1 full-stack developer; 1 data-scientist; 1 PR-manager; 1 tester

2 employees, 5 days/week, 8 weeks, 8 hours, $6/hour = $1620

2 employee (PR-manager, tester), 5 days/week, 8 weeks, 8 hours, $5/hour = $1600

Stage budget: $3520

*Fourth stage:* Continuing development. Collecting customers. Including discount to customers who using more then ten licenses for library. 2 months

Goal: Project free floating.

Number of employees, skills: 1 full-stack developer; 1 data-scientist; 1 PR-manager; 1 tester

2 employees, 5 days/week, 6 weeks, 8 hours, $6/hour = $2880

2 employee (PR-manager, tester), 5 days/week, 6 weeks, 8 hours, $5/hour = $2400

Stage budget: $5280

**Total time duration: 5 months**

**Total budget: $13440**