МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ  
РОССИЙСКОЙ ФЕДЕРАЦИИ

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**Отчет по лабораторной работе №1**

Дисциплина: «Project Management   
(Проектный менеджмент)»

Тема: **«Application»**

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**ЗАДАНИЕ**

To come up with a project. Imagine that this is an application for an investor who needs to be persuaded of the success of the project. Project should have some scientific part. Duration of the project is not more than 2 years (before reaching financial self-sufficiency). The budget of the project is not more than $30 000.

To make application, send it for verification.

**РЕШЕНИЕ**

1. Author's first, last name: Maxim Mikheev
2. Project name: Development of an automated stock trading service with the paid subscription possibility
3. Project scientific part:

Scientific objectives of the project: The goal of the project is reducing the number of wrong decisions, as well as reducing the time for making decisions when making trading operations. The goal of the project will be achieved by creating a web service that performs forecasting and drawing the price chart, simulating the execution of trading operations with the storage of history.

Scientific novelty of the project: Currently, the most common are trading robots - systems that trade according to a predetermined algorithm. Also companies and funds develop robots for their own purposes and the results are a trade secret. The service developed under the project is public and is based on a recurrent neural network.

1. Project commercial part:

Project results application, potential consumers: The results of the project will be useful to anyone who is interested in trading on the stock exchange, is engaged in speculation or investment, as well as those who study the functioning of financial markets.

Existing analogs, competitors: Companies providing capital management services and publishing their own market analytics.

Implementation plan by stages, time to implement, cost:

First stage: research and analysis of tools indicators, collection of historical data of the auction, creation of a prototype neural network, its training. 1 month

Number of employees, skills: 2 employees, financial analyst and Deep Learning Engineer.

2 employees, 5 days/week, 4 weeks, 8 hours, $10/hour => 2 \* 5 \* 4 \* 8 \* 10 = $3200

Stage budget: $3200

Second stage: improvement of the neural network model; creation of a prototype web application. 2 weeks

Number of employees, skills: 3 employees, financial analyst, Deep Learning Engineer, Software engineer

3 employees, 5 days/week, 2 weeks, 8 hours, $10/hour => 3 \* 5 \* 2 \* 8 \* 10 = $2400

Stage budget: $2400

Third stage: creation of the Internet portal, creation of the mobile application. 2 months

Number of employees, skills: financial analyst, Software engineer, Mobile developer, QA

4 employees, 5 days/week, 8 weeks, 8 hours, $10/hour => 4 \* 5 \* 8 \* 8 \* 10 = $12800

Stage budget: $12800

Fourth stage: start, maintenance, refinement of the prediction model, testing. 4,5 months

Number of employees, skills: financial analyst, Software engineer, QA

3 employees, 2 days/week, 18 weeks, 4 hours, $10/hour => 3 \* 2 \* 18 \* 4 \* 10 = $4320

Stage budget: $4320

Total time duration: 8 months

Total budget: $22720