МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ  
РОССИЙСКОЙ ФЕДЕРАЦИИ

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**Отчет по лабораторной работе №1**

Дисциплина: «Project Management

(Менеджмент разработки программного обеспечения)»

Тема: **«Составление проекта для инвестора»**

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**ASSIGNMENT 1**

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.

Application contains the following info:

1. Author's first, last name
2. Project name
3. Project scientific part
   1. Scientific objectives of the project
   2. Scientific novelty of the project
4. Project commercial part
   1. Project results application, potential consumers
   2. Existing analogs, competitors
   3. Implementation plan by stages, time to implement, cost

**ASSIGNMENT 5**

Add a completed SWOT (Strengths, Weaknesses, Opportunities, Threats) analysis table to your project description.

**APPLICATION**

**Author's first, last name**

Evgeniy Avdeev

**Project name**

Development of the international Internet-collection of opensource numerical modeling project templates with online sales possibility.

**Project scientific part**

**Scientific objectives of the project**

The goal of the project is to accelerate processes modelling and development of mechanisms, to reduce the time and costs on numerical modeling and analysis.

The goal of the project will be achieved by creating a single library of template-projects of physical processes numerical modeling based on opensource software products.

**Scientific novelty of the project**

Mostly the results of calculations and the 3D models used in calculations are usually a commercial secret of enterprises. But is some cases calculation models can be shared without any restrictions.

There are currently no Internet portals containing an ordered archive of such projects templates, which allows users to share their projects.

**Project commercial part**

**Project results application, potential consumers**

The results of the project will be useful to anyone who deals with the design of complex technical devices or work with physical processes modelling: product design companies, scientific laboratories.

**Existing analogs, competitors**

Consulting companies, Official documentation internet portals, Unofficial documentation internet portals (for example http://openfoamwiki.net)

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

*Fist stage:* Search for the analysis of existing projects of numerical modeling on the Internet. 1 month

Number of employees, skills: 2 employee, open CAE (Computer-aided engineering) skills

2 employees, 5 days/week, 4 weeks, 8 hours, $15/hour => 2\*5\*4\*8\*15 = $4800

*Stage budget:* $4800

*Second stage:* Structuring and cataloging the results. 1 month

Number of employees, skills: **???**

*Stage budget:* **???**

*Third stage:* Creation of the Internet portal, based on MediaWiki engine. 1 week

Number of employees, skills: **???**

*Stage budget:* **???**

*Fourth stage:* Adding project templates, filling out library pages, translating and formatting materials.

*Stage budget:* **???**

Goal: 1000 pages of documentation. About 50 projects. 11 months

Number of employees, skills: **???**

**Total time duration: 1 year**

**Total budget: ???**

SWOT analysis table

|  |  |  |
| --- | --- | --- |
|  | S – Strength  1. Low initial fund investment, due to the use of free open tools  2. The ability to use cheap workers with a minimum set of skills - translators | W – Weakness  1. Potentially slow return of investments  2. Potentially difficult return of investments |
| O – Opportunities  1. Opportunity to popularize like-minded people and get free helpers  2.  3. | SO – strategy  1. Plan of promotion to find free authors.  2.  3. | WO – strategy  1. Search for cheap promotion and advertising  2.  3. |
| T – Treatment  1. The risk of getting too little interest from consumers to developed collection of information  2. The risk of copying information to another site  3. | ST – strategy  1. Monitor the materials so that they are of sufficiently attractive quality. | WT – strategy  1. Look for what categories of users are willing to pay and for what: paid consultations, paid examples? |