Steerway

System Request and Feasibility Study / Planning Phase   
(Homework No.1B)

Project team: Team 09

Instructor: Dr. Araz Yusubov

Submitted in partial fulfillment of the requirements of the INFT 2303: Systems Analysis and Design course project

|  |  |
| --- | --- |
| GitHub repository | https://github.com/ADA-SITE-INFT2303-2023-Spring/sys-dev-project-team-09 |
| 02/17/2023 | Introduction first part & product functions added. |
| 02/17/2023 | Initial draft |
| <Date> | <Version description> |

|  |  |  |
| --- | --- | --- |
| Team member | Contribution to this homework (NOT the project) | Estimated % |
| Manaf Aghazada | <Description of the work contributed> | <X>% |
| Rauf Rasulzada |  |  |
| Sabina Veyisli |  |  |
| Zaur Khudiev |  |  |

# Table of Contents

<Automatically generate here using Microsoft® Word menu References🡪Table of Contents>

# Introduction

This is part of the System Proposal for a hypothetical project Steerway submitted for partial fulfillment of the requirements of the Systems Analysis and Design course in the School of Information Technologies and Engineering at ADA University, Baku, Azerbaijan.

< **Submit your assignment** through the course website:

* **Use your GitHub** repository to keep all your project files and make sure all team members update it regularly. The teams are expected to submit their homework through Blackboard, at the same time their work must be traceable through the GitHub Classroom.
* **Submit** to the grader the following files (separately) before the deadline:
  + System Request and Feasibility Study (this document) as a **Microsoft© Word document**.
  + Any additional files of other types e.g. diagram and charts will usually be inserted to this document as embedded images or tables. At the same time, the source files e.g. Excel .xlsx files or Diagrams.Net .drawio files should also be submitted inside a **single .ZIP archive** file.
* **Do not forget** to inform your team mates, to avoid multiple submissions.

>

<Briefly describe the project selection by the team. List here the individual System Request Statements that were submitted. Describe the factors for selecting this one project over all others e.g. size scope, cost, purpose, length, risk, impact scope, and economic value.

Briefly describe the content of the document and work done to prepare it.>

The project selection is the initiation of Steerway in Azerbaijan, which aims to provide a convenient and reliable method for online shopping in the country.

The following are the individual System Request Statements:

* Improve access to online shopping in Azerbaijan
* Reduce shipping costs, funding problems
* provide a platform for sellers and buyers to transact online in Azerbaijan
* Increase economic value in Azerbaijan by promoting trade

Several factors likely played a role in selecting this project over all others. These factors may have included:

Scope: The project has a broad scope, as it aims to provide an end-to-end online shopping platform in a country where such services are limited.

Economic value: The project has the potential to increase economic value in Azerbaijan by promoting local manufacturing and trade. This could have a positive impact on the country's economy, as well as on the livelihoods of individual business owners and workers.

Overall, the project was likely selected due to its potential to provide a much-needed service in the country, promote economic growth, and have a positive impact on people's lives, while also being a feasible and worthwhile investment.

<This section is accounting for about 6% of your assignment grade.>

## Definitions

<Every time you come across a project-specific term (which can be interpreted differently e.g. “terminal”), add a short description of it to the table below. Insert here any technical word for which the meaning may not be known. DO NOT assume that the readers have specialized knowledge. Use a table format for these.>

<This section is accounting for about 4% of your assignment grade.>

|  |  |
| --- | --- |
| Term | Definition |
| <Term> | <Detailed term definition> |

# Overall Description

<Based on the raw individual System Request Statement for the selected project, in this subsection:

* Identify the system to be produced by name.
* Explain what the system will, and, if necessary, will NOT do.
* Describe the application of the system being specified, including relevant benefits, objectives, and goals.
* Be consistent with similar statements in higher-level specifications if they exist

This should be an executive-level summary. DO NOT enumerate requirements list here.

You may want to include the revised and updated/expanded System Request Statement that includes the following sections:

* Business need
* Business requirements
* Business value
* Special issues or constraints

Feel free to interview any relevant people, give full reference with specifying their name and position.>

<Describe the general factors that affect the system and its requirements. This section does not state specific requirements. Instead, it provides a background for those requirements and makes them easier to understand. In a sense, this section tells the requirements in plain English for the consumption of the customer. Subsequent documents will contain a specification written for the developers.>

<This section is accounting for about 7% of your assignment grade.>

## Product Perspective

<Put the system into perspective with other related products. In addition, compare its similarity and differences to other systems in the marketplace. What related research compares to the system you are planning to build.

If the product is a component of a larger system, as frequently occurs, then this subsection relates the requirements of the larger system to functionality of the product and identifies interfaces between that system and the product.

A block diagram showing the major components of the larger system, interconnections, and external interfaces can be helpful. This is NOT a design or architecture picture. It is more to provide context, especially if your system will interact with external actors. The system you are building should be shown as a black box. Let the design document later present the internals.>

<This section is accounting for about 10% of your assignment grade.>

## Product Functions

1. **Product Management:**

* Displaying products.
* Managing inventory.

1. **Order management:**

* Placing orders.
* Tracking order status.
* Viewing order history.
* Fulfilling orders.
* Generating invoices.

1. **Search:**

* Search functionality for products.
* Browsing products by category and subcategory.
* Sorting and filtering.

1. **Product details and images:**

* Detailed product information, including description, specifications, and features.
* Product images
* Product reviews and ratings.

1. **Cart and checkout:**

* Adding items to cart.
* Modifying cart contents.
* Applying discounts.
* Shipping and billing address management.

1. **Payment processing:**

* Secure payment processing.
* Multiple payment methods.

1. **Customer support:**

* Email support.
* Live chat support.
* Phone support.

1. **Vendor management:**

* Vendor registration and approval.
* Product management.
* Order management.
* Payment and commission management.

1. **Marketing and promotions:**

* Discounts.
* Coupon codes.
* Special offers.
* Plan subscriptions.

1. **Analytics and reporting:**

* Sales tracking.
* Customer behavior analysis.
* Market trend analysis.
* Support and training:
* FAQs.
* User manuals.

1. **Feedback management:**

* User ratings, reviews, and comments.
* Feedback moderation by system administrator.
* System administrator responding to user feedback.
* User account information management & viewing of order history and feedback.

1. **User account management:**

* User registration and login.
* User profile management.
* Password reset and recovery.
* Payment method management.

1. **Privacy and security:**

* Ensuring privacy and security.
* Implementation of data protection measurements.
* Secure transmission of user information.

## User Characteristics

<Describe those general characteristics of the intended users of the product including educational level, experience, and technical expertise. DO NOT state specific requirements but rather provide the reasons why certain specific requirements maybe specified in subsequent documents.

What is it about your potential user base that will impact the design? Their experience and comfort with technology will drive user interface design. Other characteristics might actually influence internal design of the system.

For example:

The target user must:

• Have basic experience using computers and browsing the internet. Has filled out online forms or surveys and may have purchased or sold a product

• Have a computer with access to the internet

• Be willing to share information such as home address and contact information >

<This section is accounting for about 10% of your assignment grade.>

## Constraints

<Provide a general description of any other items that will limit the developer's options. This section captures non-functional requirements in the customer’s language. A more formal presentation of these will occur later.>

<This section is accounting for about 7% of your assignment grade.>

## Assumptions and Dependencies

<List each of the factors that affect the requirements stated in the document. These factors are NOT design constraints on the system but are, rather, any changes to them that can affect the requirements. For example, an assumption might be that a specific operating system would be available on the hardware designated for the product. If, in fact, the operating system were not available, the document would then have to change accordingly.

This section is catch-all for everything else that might influence the design of the system and that did not fit in any of the categories above.>

<This section is accounting for about 6% of your assignment grade.>

# Feasibility Analysis

<On this stage, develop a basic feasibility study that includes the following:

Technical feasibility: can we build it?

* Familiarity with application(s) or technology: Less familiarity generates more risk.
* Project size: Large projects have more risk.
* Compatibility: The harder it is to integrate the system with the company’s existing technology, the higher the risk will be.

Economic feasibility: should we build it?

* Development costs
* Annual operating costs
* Annual benefits (cost savings and/or increased revenues)
* Intangible benefits and costs
* Necessary calculations

Organizational feasibility: if we build it, will they come?

* Is the project strategically aligned with the business?
* Project champion(s)?
* Senior management?
* Users and other stakeholders?>

<This section is accounting for about 30% of your assignment grade that is 10% for each of the sub-sections.>

# References

<Insert here any document referred to in the document. An example might be articles or Web sites that you consulted during the literature search. This is not just a list of used materials, so do not forget to clearly MARK the exact points(s) of reference in the main text.>

<This section is accounting for about 5% of your assignment grade.>