FINAL PROJECT

ANALYSE AND BUILD/IMPROVE AN MANAGEMENT INFORMATION SYSTEM

Your Task for this Project

Your team is required to consult, analyze and build an information system for a fiction business organization. To perform this task effectively, you need to investigate and analyze well about that organization before implementing the design of the proposed system using the knowledge you have learned from the MIS course and the specialized skills you have.

The information systems you build should ensure that they advance the organization's competitive strategy and support them in their direction.

Note: you need to come up with new ideas/use new technology to make a difference from the old system in operation.

Project Submission Instructions

Submission Requirements:

I.   **Report (word file): (6 points)**

The structure of the report includes:

1. About the organization you approached (0.5 point)

    1.1 Objectives and mission (0.125 point)

    1.2 Industry and history (0.125 point)

    1.3 Size and organization chart (0.125 point)

    1.4 Business area/function (0.125 point)

2. Analyze your existing information system (1 point)

    2.1 Analyze the industry structure and target market share pursued by the organization (0.25 point)

2.2 Competitive strategy of the organization in each period from the present to the next 10 years (0.25 point)

2.3 Value chain of the system, identify and analyze the main activities/support activities in the value chain that you consider most important (0.25 point)

2.4 Analyze organization structure of 5 components of an information system: hardware, software, people, processes, and data (0.25 point)

3. Organizational issues (1.5 points)

3.1 Indicate the existing problems of the old system and the expected goals of the new system.

3.2 Clearly analyze in which components/structures of the system these problems arise (e.g. from which process, data, hardware...)

4. Proposal of a new system (2.5 points)

Explain the new system structure:

4.1 General usecase diagram, ERD (1 point)

4.2 Describe the changed/improved processes of the new system (0.75 point)

4.3 Analyze and evaluate what new changes/proposals meet/support for the organization's competitive strategy (0.75 point)

5. Evaluation, conclusion (0.5 point)

Pros and cons

Your review

Lessons learned from the project

II. Your Source code (2 points)

III. Your group meeting minutes (0.5 point)

IV. Your presentation and demo (in class) (3.0 point)

(Note: The presentation will be held in the form of a project proposal defense session)

V. Evaluate the members' contribution (group roster)

REGULATIONS ON PRESENTATION AND SUBMISSIONS

-        This is a group project. Only one student submits a one-time report file in pdf format

-        File name [MIS]Ho_Ten_SV1_MSSV1_Ho_Ten_SV2_MSSV2.zip (Note: Unmarked Vietnamese) that including:

+ Report file (word/pdf): Format: font: Times New Roman, size: 13pt, line space: 1.5, after: 0pt, before: 0pt, justify. Top: 0.5cm, Bottom: 0.5cm, Left: 1.0cm, Right: 0.75cm. Language of report: English and the maximum number of pages is 50 (Excluding covers, table of contents, categories, references, annexes according to the TDTU form).

+ Hyperlink of source code

+ Meeting minutes

+ Group's roster

-        Deadline Submission: 26November2023. Presentation & Interview start from 27November2023

-        Each student asked to make a PowerPoint file and present his or her work. Examiner will evaluate and score each member's performance based on their contribution and work quality.

-        Any cheating or violation of University regulations regarding Ethical Academic will get 0 points.

RUBRICK

Criteria	Level 4 (80% - 100%)	Level 3 (60% - 79%)	Level 2 (30% - 59%)	Level 1 (0% - 30%)
Report (6 pts)				
Describe your business (0.5pts)	Describe in detail, clearly the fiction company by using professional visualization approaches.	The description is missing less than 1/3 requirements or the description has some points that are not reasonable and logical.	The description only meets less than 1/2 of the requirements	Incorrect description of most components or failure to fulfill this requirement
Analyze the current state (1pt)				
Industry structure (0.25pts)	The analysis uses actual data, describes clearly an overview of the industry structure and appropriately applies Porter's 5 forces model.	The analysis provides complete data on industry structure but only analyzes in detail less than 4 forces in the Porter model.	The analysis does not provide actual data on the industry structure or only analyzes less than 3 forces in the Porter model.	The analysis does not provide actual data on the industry structure or only analyzes less than 1 forces in the Porter model.
Strategy (0.25pts)	Identify and properly explain the organization's competitive strategy. Point out the advantages and disadvantages of this type of strategy and the relationship between industry structure and enterprise strategy.	Identify and properly explain the organization's competitive strategy. However, the advantages and disadvantages of this type of strategy or the relationship between industry structure and enterprise strategy have not yet been pointed out	Identify and properly explain the organization's competitive strategy. However, the advantages and disadvantages of this type of strategy and the relationship between industry structure and enterprise strategy have not yet been pointed out	Inaccurate determination of the business's competitive strategy and/or unreasonable explanation
Value chain (0.25pts)	Identify and accurately describe the most important activities in the business's value chain	Accurately identify the most important main activities in the value chain but do not describe the detailed processes of those activities	Incompletely identifying important key activities of the enterprise value chain or failing to describe the processes of those activities	Inaccurately identifying the most important key activities in the value chain that are consistent with the enterprise's competitive strategy

Information structure (0.25pts)	Fully and reasonably describe the components of the existing information system using a visual and vivid method	Describe in detail less than 2/3 of the components of the existing information system or do not use appropriate visual representation methods.	Describe in detail less than 1/2 of the components of the existing information system or do not use appropriate visual representation methods.	Poorly or inaccurately describe the components of the existing information system
Organizational issues				
Existing problems (0.75pts)	Accurately identify more than two problems of the old system and the expected goals of the new system and provides a reasonable explanation	Accurately identify two problems of the old system and the expected goals of the new system and provides reasonable explanation	Accurately identify only one problem of the old system and the expected goals of the new system or not provides reasonable explanation	Correctly identifies a problem but not provides reasonable explanation or fails to correctly identify any problem
Inducement (0.75pts)	Clearly and complete analyze in which components/structures of the system these problems arise	Only analyze in detail less than 2/3 of the problems that arise in which components/structures of the system	Only analyze in detail less than 1/2 of the problems that arise in which components/structures of the system	Poor, unreasonable analysis or failure to accurately determine the causes of problems
Proposal of a new system (2.5pts)				
Usecase Diagram (0.5pts)	UC Diagram are complete with functions, accurate and clear. The specification is complete, easy to understand and concise.	The diagram describes less than 2/3 functional with few syntax errors. The specification is not detailed enough or is too lengthy	The diagram describes less than half of the functions with a few syntax errors	The description drawing is missing more than half of the functions or has too many syntax errors. The specification is not accurate
ERD (0.5pts)	ERD are accurate and clear. The specification is complete, easy to understand and concise.	ERD are incorrect/missing less than 1/3 of entities or relationships or contain some syntax errors	ERD are incorrect/missing less than 1/2 of entities or relationships or contain some syntax errors	ERD are incorrect or contain too many syntax errors
Improvements (0.75pts)	Reasonably describe more than 3 new features that solve the problems of the old system	Reasonably describe more than two new features that solve the problems of the old system	Reasonably describe 1 or 2 features that solve the problems of the old system	The new points of the solution are not reasonable or do not describe the solution's relationship to the problem of the old system.

Analyze the improvements (0.75pts)	Clearly analyze and reasonably explain proposals that impact the organization's competitive strategy	Explains less than 2/3 of the proposals and their impact on the organization's competitive strategy	Explains less than 1/2 of the proposals and their impact on the organization's competitive strategy	Provides an unreasonable explanation of the solution's impact on the organization's competitive strategy
Evaluation, conclusion (0.5pts)	Conclusions and judgments are clear, reasonable and concise. Explain clearly the suitability of the proposed system with the problems analyzed.	Some comments are still unreasonable or do not explain the consistency between the solution and the problem identified in the above sections.	The comments are not detailed enough and are inconsistent with the sections above.	Comments are sketchy, inconsistent, or fail to draw the group's judgments
Source code (2 pts)	Realizing most of the proposed solutions. The system runs completely and professionally	Source code is provided but only 2/3 of the proposed solution are implemented	Source code is provided but only 1/2 of the proposed solution are implemented	The solution is only at a basic level, the proposed solutions have not yet been realized or the source code is not complete
Meeting minutes (0.5 pts)	Provide complete meeting minutes documents for each phase of the project. The content of the documents are detail and presented professionally	The meeting minutes are complete. However, the content of the meeting minutes is not detailed enough or has some format errors.	The meeting minutes are incomplete and the content of the meeting minutes is not detailed enough or has some format errors.	Minutes are sketchy or do not provide records to demonstrate the group work process
Presentation and Demo (3 pts)				
Slide (0.5 pts)	Presentation slide is clear, complete, intuitive and vivid. Use appropriate illustrations, do not use too much text, and have a balanced layout	Use appropriate illustrations, do not use too much text, and have a balanced layout but The slide has some spelling and formatting errors.	The slide is full of information but does not use images, the keywork is well visualized, there are errors in spelling, presentation, and text size is small to view.	The slide is sketchy, does not meet basic layout and visualization requirements, or the slide is not prepared
Script (0.5 pts)	Reasonable script, good preparation and good team coordination	The script is reasonable but there are a few errors in preparation or group	The script is reasonable but there are a few errors in preparation and group	Bad script or no specific script, poor preparation, poor team coordination

		coordination is not completely compatible	coordination is not completely coordinated	
Presentation (1pt)	Presentation on time, complete, attractive presentation, good script, good group coordination	The presentation is clear and attractive, but it's too time-consuming, or some parts are still readable or don't follow the script well	Presentation is not fluent, script is not reasonable, presentation skills are not good or time is not guaranteed	The presentation was not good, had many errors, no script, and no time control
Demo (1pt)	Describe in detail and clearly the process and successful implementation.	The description or the implementation did not go smoothly with some steps or only completed 2/3 of the requirements	The description or the implementation did not go through most of the steps or only completed less than 1/2 of the requirements	The description or the implementation does not meet requirements or cannot be performed