

FINAL PROJECT

Your Task for this Project

Your team is required to analyze, design and develop an information system for a fiction business organization.

Project Submission Instructions

Submission Requirements:

I. Report (word file): (6.0 points)

The structure of the report includes:

1. Determine requirements (1.0 point)
 - 1.1 Describe the organization (0.25 point)
 - 1.2 Investigate situation (0.25 point)
 - 1.3 Analyze stakeholders (0.25 point)
 - 1.4 List and classify the requirements (0.25 point)
2. Functional modelling (2.0 point)
 - 3.1 General Usecase (0.5 point)
 - 3.2 Decomposed usecases and UC specification (0.5 point)
 - 3.3 Activity Diagrams (1 point)
3. Structure modelling (0.75 points)
 - 3.1 Class Diagram (0.5 point)
 - 3.2 Class diagram specification (0.25 point)
4. Behavior modelling (0.75 point): sequence diagrams
5. Database Diagram (0.75 point): ERD and Relational Model

6. User Interface Design (0.5 point)

7. Conclusion and your review (0.25 point)

Lessons learned from the project

II. Your Source code (2.0 points)

III. Your presentation and demo (in class) (2.0 points)

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

REGULATIONS ON PRESENTATION AND SUBMISSIONS

- This is a group project. Only one student submits a one-time report file in pdf format
- 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: 15May2024. Presentation & Interview start from 17November2024
- 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 (6.0 pts)				
<i>Determine requirements (1pts)</i>				
<i>Describe the organization (0.25 point)</i>	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
<i>Investigate situation (0.25 point)</i>	There is a description of the method and results of the current situation investigating process with clear evidence	There is a description of the method and results of the current status survey but there is no detailed evidence	Only describes the investigating method or results, does not provide evidence	Poor description or no mention of the investigating process and results
<i>Analyze stakeholders (0.25 point)</i>	List and interview relevant parties with complete evidence	Stakeholders are listed and interviewed but do not provide complete evidence	Stakeholders are mentioned but the interview process is not described and there is no evidence	There is no mention of interviews with stakeholders or a sketchy description
<i>List and classify the requirements (0.25 point)</i>	Completely identify and properly classify the collected requirements	Provide a list of requirements that is incomplete or not classified completely	Identify 2 or more missing requirements or there is no clear classification of requirements	Identify and classify 50% or more of the requirements missing or incorrect, or there is no requirement listing and classification section
<i>Functional modelling (2.0 points)</i>				
<i>General Usecase (0.5 point)</i>	The general use case is accurately drawn and fully matches the functional requirements provided.	The general use case is clear and complete but has syntax errors (under 3 errors) or does not fully conform to the provided functional requirements (under 2 errors).	The general use case contains many errors including syntax and logic errors (from 4-6 errors) or does not completely conform to the provided functional requirements (from 3-4 errors).	The general UC drawing has more than 8 syntax or logic errors; or there is no synchronization with the list of identified functional requirements (5 or more errors)

Requirement Analysis and Design Course

Semester 2 – 03.2024

Decomposed usecases and UC specification (0.5 point)	UC decomposes fully, accurately and in accordance with general UC (less than 3 syntax errors); UC specifications are accurate, detailed, and in the prescribed format	The UC decomposes fully, and is reasonably accurate or in good agreement with the general UC (less than 6 syntactic and logical errors); The UC specification is relatively accurate, detailed, and in the correct format (there are a few errors related to pre-conditions, post-conditions or steps to perform UC that are not fully defined).	The decomposed UC is not complete or accurate or does not match the general UC (from 7-10 errors); or the UC specification is incomplete/not detailed/not in the required format	The decomposed UC contains more than 10 errors/ is not consistent with the general UC; UC specification is sketchy or not provided.
Activity Diagrams (1 point)	The diagrams provided are complete, accurate and in accordance with the respective UC specification (less than 3 errors)	The diagrams provided are relatively complete, relatively accurate and consistent with the corresponding UC specifications (from 3-6 errors).	The diagrams are not accurate and do not conform to UC specifications (there are 7-10 errors)	Diagrams with too many errors/incomplete or contradictory/do not depict the corresponding UCs (11 or more errors) or not provided
Structure modelling (0.75 points)				
<i>Class Diagram (0.5 point)</i>	Correctly and completely identify classes and relationships between classes, and reasonably describe the structure of the system (less than 2 errors)	Determine relatively correctly and completely the classes, relationships between classes, describe the system's structure relatively reasonably (from 3-4 errors)	Identifying missing classes or wrong class relationships and not properly describing the system's structure (from 5-7 errors)	The class diagram is drawn with significant errors in syntax or logic, causing the drawing to fail to reflect the system structure (8 or more errors) or not provide.
<i>Class diagram specification (0.25 point)</i>	Complete, detailed, accurate specification in accordance with the diagrams provided and in the required format (less than 2 errors)	Specifications are relatively complete, detailed, accurate or relatively consistent with the diagrams provided and in the required format (from 3-4 errors)	The specification is incomplete, does not comply with the required format or does not match the provided drawing (from 5-7 errors)	The specification is sketchy, not in the right format, does not match the drawings or is not mentioned at all

Behavior modelling (0.75 point)				
<i>Sequence Diagram (0.75pts)</i>	The diagrams provided are complete, accurate and in accordance with the respective UC and AD (less than 3 errors)	The diagrams provided are relatively complete, relatively accurate and consistent with the corresponding UC and AD (from 3-6 errors).	The diagrams are not accurate and do not conform to UC and AD (there are 7-10 errors)	Diagrams with too many errors/incomplete or contradictory/do not depict the corresponding Ucs and ADs (11 or more errors) or not provided
Database Diagram (0.75 point)				
<i>ERD (0.25 point)</i>	Correctly and completely identify entities and relationships between entities, and in accordance with the respective class diagram and sequence diagrams (less than 2 errors)	Determine relatively correctly and completely the entities and relationships between entities, and in accordance with the respective class diagram and sequence diagrams (from 3-4 errors)	Identifying missing entities or wrong relationships and not be suitable properly with the respective class diagram and sequence diagrams (from 5-7 errors)	The ER diagram is drawn with significant errors in syntax or logic, not be suitable properly with the respective class diagram and sequence diagrams (8 or more errors) or not provide.
<i>Relational Model and specification (0.5 point)</i>	RM is accurately and completely converted to ERD, providing a detailed database specification (less than 2 errors)	RM is converted relatively accurately and completely compared to ERD, providing a relatively detailed database specification (from 3-4 errors)	The converted RM is not accurate or does not match the ERD, the database specification is not detailed enough (from 5-7 errors)	The RM is significantly wrong (7 or more errors), the database specification is sketchy or not mentioned
User Interface Design (0.5 point)				
<i>User Interface Design</i>	Interface designs are provided that are complete, reasonable and consistent with the sequence diagram (less than 3 errors)	The interface designs provided are relatively complete, reasonable and appropriate compared to the sequence diagram (from 4-6 errors)	The interface designs are incomplete or do not match the sequence diagram (from 7-9 errors)	Interface designs that are sketchy, incomplete or incompatible with the sequence diagram or not provided (10 or more errors)
Conclusion and your review (0.25 point)				
<i>Conclusion and lesson learned</i>	Conclusions and judgments are clear, reasonable and concise.	Some comments are still unreasonable	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 (2.0 pts)				
<i>Source code (2.0 pts)</i>	Realizing most of the proposed solutions. The system runs completely and professionally	Source code is provided but only 2/3 of the proposed functional are implemented	Source code is provided but only ½ of the proposed functional 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
Your presentation and demo (2.0 pts)				
<i>Slide (0.5 pts)</i>	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 keyword 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
<i>Script (0.5 pts)</i>	Reasonable script, good preparation and good team coordination	The script is reasonable but there are a few errors in preparation or group coordination is not completely compatible	The script is reasonable but there are a few errors in preparation and group coordination is not completely coordinated	Bad script or no specific script, poor preparation, poor team coordination
<i>Presentation (0.5pt)</i>	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
<i>Demo (0.5pt)</i>	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