System Analysis Project Requirements

Project Introduction:

The System Analysis Project is a critical component of the curriculum designed to provide students with practical experience in analyzing, documenting, and designing a system in a real-world context. This project will challenge students to apply theoretical knowledge to real-world issues, encouraging the development of key analytical and technical skills necessary for a successful career in technology and business analysis.

Choosing a Topic:

Students are free to choose a system analysis project topic that interests them, provided it is complex enough to demonstrate their analytical and problem-solving abilities. The chosen system can be an existing business process, a software application, an information system, or any other complex system that requires thorough analysis and offers room for improvement.

Project Requirements:

1. *Project Proposal (5% of total grade):*
   - A brief description of the chosen system/topic.
   - The objectives and scope of the analysis.
   - The primary stakeholders of the system.
   - The problems or deficits the project seeks to address.

2. *System Documentation (20% of total grade):*
   - A comprehensive description of the current system.

- Visual diagrams to illustrate system dynamics (e.g., data flow diagrams, ERD, etc.).

- A summary of the strengths and weaknesses of the current system.

3. *Stakeholder Analysis (10% of total grade):*

- Identification of all stakeholders related to the system.

- An assessment of stakeholder needs and priorities.

- Examination of stakeholder impact on the system.

4. *Requirements Specification (20% of total grade):*

- A detailed list of system requirements (functional and non-functional).

- Prioritization of requirements based on stakeholder needs and resource constraints.

5. *System Design (15% of total grade):*

- A proposed design for an improved system. “Prototyping”

- Design diagrams showing the new or modified system structure and processes.

- Justification for design choices including technologies and methodologies selected for the development.

6. *Implementation Plan (10% of total grade):*

- A step-by-step plan for implementing the new system design.

- Resource allocation (time, budget, personnel).

- Risk assessment with mitigation strategies.

7. *Evaluation (5% of total grade):*

- A set of criteria for evaluating the success of the system post-implementation.

- Methods for gathering user feedback and performance data.

8. *Presentation and Report (15% of total grade):*

- A formal presentation to the class outlining the project.

- A final report that details everything from the proposal to the evaluation plan.

Deliverables:

- Project proposal

- Documentation of the current system

- Stakeholder analysis report

- Requirements specification document

- System design details

- Implementation plan

- Evaluation framework

- Final report and presentation