

# IFSM300 - Final Project

## Summary

For this project you will experience the Systems Analysis and System Design activities of the system development life cycle. By considering a business activity and applying the concepts learned in the course. The content will be presented to the class in a 15-20 minute presentation using PowerPoint slides or you may create website pages that describe your project development and present in class. You will need to create supporting graphics that may include: Entity Relationship Diagrams, Flowcharts, Data Flow Diagrams, and Critical Path Method.

## Requirements:

Upload all documentation as PDF files, and also powerpoint slide show, excel spreadsheets, or access database content prior to the last class. I will then download all content from LEO before class.

You will need to create a summary of your system in the **Feasibility Study**, and **System Design** documentation. The system can be anything for which you intend to improve the processes using an Information System design. You may select any worthy project to include your workplace related business process, mentioned case studies, or some project you would like to do. For smaller projects, the Feasibility and Design documentation will be less but you would need to actually do the implementation using Microsoft Excel or Microsoft Access or create a website on GitHub.

## Analysis Phase:

The **Feasibility Study** will describe analysis performed on an existing system to include descriptions, a DFD or Flowchart figure, and analysis of a current system. It should contain the following headings.

1. Introduction
2. Description of current systems
  - 2.1 System objectives and constraints
  - 2.2 Problems with current system
3. Expected impact of a new system
  - 3.1 Impact on the firm's organization structure
  - 3.2 Impact on the firm's operations
  - 3.3 Impact on the firms resources
  - 3.4 Economic and Noneconomic return
4. The scope of recommended system design project
  - 4.1 Tasks to be performed
  - 4.2 Human resource requirements
  - 4.3 Schedule of work
  - 4.4 Estimated cost
5. Identify end-user information needs
6. Summary

## Design Phase:

The **System Design** document will be created after analysis of current system. You will create a design that will utilize information systems to improve business processes. In some cases the business processes will be reengineered. Determine the processing and data that is required for the new system, and recommendations for the hardware and software to transform the data into information. You will need to produce a well documented design with figures. These could include spreadsheet charts and tables, Entity-Relationship Diagrams, Data Flow Diagrams, Project Schedule describing Critical Path Analysis, and a written description of what they represent.

Relationships and data flow should be clearly documented using ERD and DFD figures. Alternative solutions, evaluation of each solution, and selection of the best solution will be stated clearly in project report.

The **System Design** document should contain the following headings:

1. Introduction
2. System objectives and constraints

3. Possible system alternatives
4. The recommended design project
  - 4.1 Tasks to be performed
  - 4.2 System Specifications
  - 4.3 System Design to include: DFD's, ERD's, Flowcharts as needed.
  - 4.4 Human resource requirements
  - 4.5 Schedule of work
  - 4.6 Estimated cost - Create Excel spreadsheet evaluating costs
5. Expected impact of the system
  - 5.1 Impact on the firm's organization structure
  - 5.2 Impact on the firm's operations
  - 5.3 Impact on the firms resources
6. Summary

## **Implementation Phase:**

The **Implementation Phase** is when you actually implement your design is not required for this final project. However, for smaller projects that require a simple website or can be done with Microsoft Excel or Access, then I would expect less for the Feasibility Study and Design documentation. If you chose this path then you would need to actually do the implementation using Microsoft Excel or Microsoft Access or create a website on GitHub.

## **Project Submission:**

Upload all project content before the last class so that it will be available on the instructors computer for presentation. Bring a PowerPoint slide show describing your efforts stored on a USB drive in the event that we have slow Internet that inhibits download. If you chose to utilize a video in final presentation it must not exceed 20% of available time (3 – 4 minutes) for your presentation.