

# Community College of Rhode Island

## Systems Analysis and Design

### **COMP-1230**

#### Case Study Project

#### Assignment #3

From the needs analysis and the discussion in class you gathered a great deal of information. Your next task is to analyze the information at hand and respond back to the users using a “*Preliminary Investigation Report*”; essentially an executive summary detailing the main issues you have found thus far (see layout specifications in Problem section below). A more efficient method of capturing, maintaining and organizing data pertaining to gaming licenses appears to be the focal point of your analysis. In the development of your scope you should address at least one of the following issues as well: search capability for reference, manpower analysis, and secure reporting to external agencies.

Once the “*Preliminary Investigation Report*” has been presented and a potential course of action has been agreed upon, your next task will be to begin developing a logical model to represent the information flow for this area. To help your transition to modeling, organization of your information is a critical factor. In a classic system’s model you would utilize one of the various UML models such as Functional Decomposition, Timeline, or Use-Case to do this. For this particular project you need to create a “*Rough Systems Flow*” instead (see layout specifications in Problem section below). A “*Rough Systems Flow*” is a substitute for the traditional UML models but nonetheless still requires you to choose a point of view for your organization; this “*Rough Systems Flow*” will serve as a critical tool when you begin to construct Data Flow Diagrams.

## Activities:

1. Prepare a “*Preliminary Investigation Report*” as a means of formally reporting back to the users you interviewed.

This document should be organized as follows:

➡ Introduction:

- why you are undertaking this investigation (goals, scope, etc.)

➡ Systems request summary:

- general summary of what current system does, and the environment it operates in

➡ Your findings:

- list main issues you have found and where applicable include any contributing factors to these issues

➡ Your recommendations:

- your expected contribution to resolving the issues delineated above

➡ Expected benefits:

- what your contribution will provide for the present and future benefit of the department

2. Prepare a *Rough Systems Flow* (using either an Activity Diagram or a BPM), to document the current processing. Choose one or a combination of the following methods to organize your collection of documentation and interview information.

➡ Chronological:

- best when system exists in a cyclical environment; pick a starting point and detail activity throughout the cycle returning to the starting point

➡ Functional:

- based on *Functional Decomposition*, take the major activities that occur within the system and break them into sub-components moving from a system down to a detail level

➡ User:

- organize the system activities based upon who is doing what; best used in a system that is predominately people-based rather than process-based