Assignment 2—SRS Preparation
CptS 322—Software Engineering
Assigned: 8 February 2005
Due: 14 February 2005

Objective:
Define and demonstrate several key terms and concepts that are used when writing a Software Requirements Specification (SRS). This assignment is worth 60 points.

1) Use Cases: (15 pts)
1a) Define the term “use case.”
1b) Write one “use case” for your project.

2) Data Flow Diagrams: (15 pts)
2a) What is a data flow diagram (DFD).
2b) When is it appropriate to present a DFD in a SRS?
2c) Draw a DFD for your project.

2) State-Transition Diagrams: (15 pts)
2a) What is a state-transition diagram (STD).
2b) When is it appropriate to present a STD in a SRS?
2c) Draw a STD for your project.

2) Sequence Diagrams: (15 pts)
2a) What is a data flow diagram.
2b) When is it appropriate to present a DFD in a SRS?
2c) Draw a sequence diagram for Question 1’s use case.