Project Specification and Design Considerations

Requirements Specification

System description
    Gives an overview and functional description of the system
    Written from a client's point of view
Provides the interface between the client and the design documents
Identifies system requirements
For all classes, includes a textual description of the
    Responsibilities
    Operation
    Public interface
    Attributes or properties
Specifies any environmental considerations
    Speed
    Memory requirements
    Host requirements
    Display requirements
Cost
Test requirements
    Acceptance - The customer's acceptance requirements
    Verification - Simulated environment (as appropriate)
    Validation - Actual environment (as appropriate)

Design Specification

System
    Description
        Written from the designer's point of view
    System architecture
    Block diagram if appropriate
System behavior
    State diagrams
    Control flow
    Data flow
    Timing requirements
Classes
    Identify the classes
    Textual description for each class
        Header describing what the class is, its behavior, and any restrictions
        Data members
        Function members
        Access specifications(s)
        Initialization requirements

Exports
Relational description
Class hierarchy
Class composition