# SRS and Prototype Grading Metric, Rev1

## SRS (100 points)

### SRS Contents (80 points)  80

1. Introduction  10
   - Overview of SRS subsections
   - Introduction of topics
   - 1.1 Purpose
     - Purpose of SRS
     - Intended Audience
   - 1.2 Scope
     - SW products to be produced
     - Benefits of SW
     - Objectives of SW
     - Application domain
     - What SW will do
     - What SW will not do
     - Consistent with Customer Spec
   - 1.3 Definitions, acronyms, and abbreviations
     - All terms defined
   - 1.4 Organization
     - Describe the rest of the SRS
     - Give organizational structure of SRS

2. Overall Description  10
   - Overview of this section
   - 2.1 Product Perspective
     - Context for the product
     - Pictorial representation of bigger system
     - Complete description of product specified
     - Describe how product fits
     - Constraints
   - 2.2 Product Functions
     - Major functions
     - All functionality specified by customer
     - Diagram high-level goals
   - 2.3 User Characteristics
     - User expectations
   - 2.4 Constraints
     - All constraints specified
     - English descriptions safety critical properties
     - English descriptions other properties
   - 2.5 Assumptions and Dependencies
     - All assumptions documented
     - All dependencies documented
   - 2.6 Appropotioning of Requirements
     - Requirements outside scope of project
### 3. Specific requirements

- Requirements logically ordered
- Hierarchy when appropriate
- Hierarchy easy to understand
- No conflicting requirements
- No ambiguous or implicit requirements
- Testable requirements
- Clearly, concisely, and unambiguously stated requirements
- No unnecessary design or implementation detail

### 4. Modeling Requirements

#### Use case diagrams
- Every goal should be addressed
- Each goal is satisfied by one or more use cases
- Each use case refers to one or more requirements

#### Class Diagram
- Representative scenarios of system
  - English description
  - Use instances of class names from class diagram
  - Sequence diagram
  - Objects are instances of classes in class diagram

#### State diagram
- For key classes that participate in scenarios
  - Scenarios validated state diagram
  - All events, actions modeled in class diagram
  - Variables are attributes in class diagram

### 5. Prototype

- Describe what prototype will show of system functionality

#### 5.1 How to Run Prototype
- Describe what is needed

#### 5.2 Sample Scenarios
- Provide a sample scenario

### 6. References

- List of all documents referenced
- Sources where references can be obtained
- Link to website

### SRS Writing (20 points):

#### Paragraph Structure

- thesis sentence
- body supports thesis sentence

#### Grammar errors

- Terms / acronyms used before definition
- Terms and concepts used consistently

### SRS Total: