SYST699

SPEC Innovations InnoSlate™

System Requirement Specification (SRS)

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## Functional Requirements

During this phase the functional aspects of the software will be evaluated.

### entity creation and persistence

The creation, persistence, and lifecycle management of the following entities will be tested:

1. Requirements
2. Assets
3. Artifacts

### modeling and simulation capabilities

During this phase, an action diagram model of the sample project will be created and the model will be run in Simulator to evaluate the modeling and simulations capabilities of Innoslate.

### Analyzer tool

The Analyzer tool helps to extract information from Adobe Acrobat and Microsoft Word files into the database. It can be used to extract information into any class of artifacts. Function of this tool will be tested using both MS Word and PDF documents containing artifact definitions for the following classes:

1. Requirements
2. Assets, and
3. Artifacts

### reporting and diagramming capabilities

Innoslate can generate various reports on the project database and the results can be displayed both textually and graphically. Both text based and graphical reports like hierarchy charts will be tested during this phase.

Six different types of diagrams are currently supported by Innoslate. They are:

1. Action Diagram
2. Hierarchy Diagram
3. N-Square Diagram
4. Risk Matrix
5. Sequence Diagram
6. Timeline Chart

Our testing will focus on the followingthree diagram types:

1. Action Diagram
2. Hierarchy Diagram
3. Sequence Diagram

### project management, import, and export capabilities

Innoslate promotes team work and collaboration by adding a project sharing, import, and export options. Currently Innoslate supports importing or exporting of whole projects only – not individual elements. These features will be evaluated problems (if any) will be identified and documented.

## Non-Functional Requirements

The non-functional aspects of the software will be evaluated during this phase. Mainly the following two aspects of the software will be evaluated.

### Usability

The usability aspects of Innoslate will be evaluated. The team members will individually grade the following aspects on a 1 to 10 scale:

1. GUI: Appearance
2. GUI: Organization of Screens and Input Elements
3. Overall Ease of Use

### Performance

Innoslate will be tested against a set of predefined performance benchmarks using a large project database (e.g. the sample project FireSAT).

## Comparative Evaluation

This will involve a critical evaluation of Innoslate tool compared to other similar tools in the market for SE modeling. The pros and cons of each tool will be analyzed and results tabulated. A list of similar tools

## Feature Recommendations

Create a wish-list of functionalities that need to be added or recommend modifications to existing functionalities to make it more user-friendly and efficient.