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DEPARTMENT OF COMPUTER SCIENCE

COS 301 - SOFTWARE ENGINEERING

Not Like This Functional Requirements

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SOFTWARE REQUIREMENTS SPECIFICATION AND TECHNOLOGY NEUTRAL PROCESS DESIGN

NETWORK VISUALIZATIONS INTERFACE FOR LARGE SCALE NETWORKS/MAIN PROJECT

Version: Version 1.0 Beta For further references see [gitHub](#). May 25, 2016

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1 Functional requirements

1.1 Introduction

This is the Software Requirements specification document for a network visualization system for Amazon web services. Amazon web service customers have hundreds of inter-connected networks with tens-of thousands of networked resources of many types and uses. The Network Visualizations interface for large scale networks (NVI, for short) will be used to create a display of a customer's networks, so that they can have a better understanding of their network. In short a visualization system to capture the virtual connections between a customer's instances within their Amazon Virtual Private Cloud. The purpose of this document is to capture the functional and architectural requirements of the system as well as other issues. The document is divided into the following sections:

1. Vision for the system
 - This includes the projected vision and outcomes of the system and what AWS aims to achieve with this project.
2. Background to why the system is being developed
 - This includes a discussion of the problem which AWS has decided upon to address with this project. How this system is intended to solve the problem and why this system is needed.
3. Architecture Requirements
 - This includes the software architecture requirements which include the access and integration requirements, quality requirements and architectural constraints for the NVI. Additionally to the quality requirements of the system the external systems which will be incorporated into the system will be discussed. Lastly it will include any constraints that the client has specified with regard to technologies used in and by the system.
4. Functional requirements and application design
 - This will include the functionality of the system that is required by the users of the system.
5. Open Issues
 - This section will discuss any requirements of the system that may be unclear or has not been specified. It will also include any inconsistencies that have been discovered in the requirements.