Visualizing the Software Vulnerabilities based on different significant scopes

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Nov. 24th

Version 1.1

**Risk Management Plan**

**1. Introduction**

This Risk Management Plan outlines the approach for identifying, analysing, and managing risks associated with the Software Vulnerability Data Analysis project. It provides a structured methodology to minimize the impact of potential risks on project objectives.

**1.1 Purpose**

The purpose of this Risk Management Plan is to:

* Identify potential risks that could affect the project
* Assess the likelihood and impact of these risks
* Develop strategies to mitigate or respond to risks
* Establish a framework for ongoing risk monitoring and control

**1.2 Scope**

This Risk Management Plan covers all aspects of the Software Vulnerability Data Analysis project, including:

* Data collection from NVD, CVE, and OSV sources
* Database design and implementation
* Data processing and analysis
* Dashboard creation and visualization
* Project timeline from November 11 to November 29, 2024

**1.3 Definitions, Acronyms, and Abbreviations**

| **Term** | **Definition** |
| --- | --- |
| Risk | An uncertain event or condition that, if it occurs, has a positive or negative effect on project objectives |
| Probability | The likelihood of a risk occurring |
| Impact | The potential effect of a risk on project objectives |
| Mitigation | Actions taken to reduce the probability or impact of a risk |
| Contingency | A plan of action to be taken if a risk occurs |
| NVD | National Vulnerability Database |
| CVE | Common Vulnerabilities and Exposures |
| OSV | Open Source Vulnerabilities |
| API | Application Programming Interface |