

2) Project 2: SecureAgent - Web Based Expert System

localhost:8080/SecEvalWebAppD2/

SecureAgent - Security Evaluation Expert System

Security Budget Impact Evaluation

Q1. What is the total information security budget across all agency systems? 45

Q2. What is the total information technology budget across all agency systems? 44

Vulnerability Efficiency Evaluation

Q1. Number of high vulnerabilities identified across the enterprise during the time period? 56

Q2. Number of high vulnerabilities mitigated across the enterprise during the time period? 23

Access Points Efficiency Evaluation Evaluation

Q1. Does the organization use automated tools to maintain an up-to-that identifies all remote access ☒ Yes ☐ No

Evaluation Results

Performance Evaluation Measure	Evaluation Result	Evaluation Percentage (%)	Desired Percentage Range (%)
Security Budget Impact	Cannot generate evaluation result. (Security Budget cannot be greater than total information technology budget.)	0.0	90 to 100
Vulnerability Efficiency	Bad	41.1	90 to 100
Access Points Efficiency	Cannot generate evaluation results. (Unauthorized access points cannot be greater than remote access points.)	0.0	0 to 5
Personnel Security Implementation	Good	91.7	90 to 100
System & Service Acquisition	Medium	75.6	90 to 100
Overall Security	Bad	41.7	90 to 100

Recommendations

Should consult a information security analyst on high priority and reconstruct new security plan and start implementing it.

Employ and regularly check security sensor equipments.

Enforce standardized rules for security practices ate organization and program level.

Use password managers for accessing critical software system.

Conduct training session for security awarness in the organization.

Figure 2: Web Application GUI