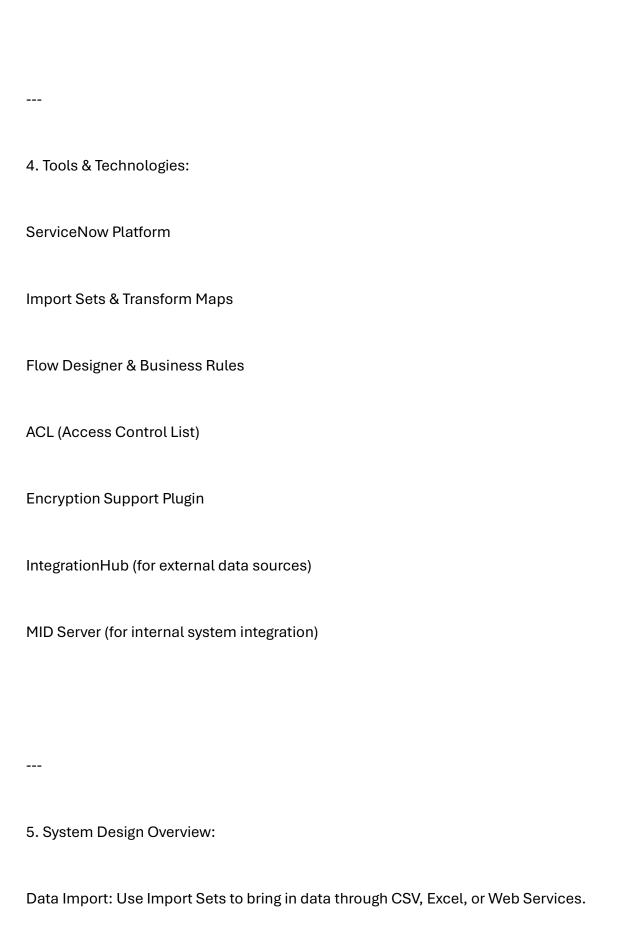
Project Report: Secure Data Import and Protection Framework in ServiceNow

1. Title:
Secure Data Import and Protection Framework in ServiceNow

2. Objective:
To design and implement a secure and reliable framework for importing, validating, and safeguarding sensitive data in ServiceNow. The system ensures data confidentiality, integrity, and compliance with organizational policies and regulatory standards.

3. Scope:
Import structured data into ServiceNow using various sources like CSV, Excel, and REST APIs.
Apply validation, transformation, and mapping logic.
Secure data using field-level encryption and access control rules.
Provide audit trails and exception handling mechanisms.



Transformation: Map source fields to target tables using Transform Maps.
Validation: Use Business Rules and Data Policies to ensure input correctness.
Encryption: Apply encryption for sensitive fields using the Encryption Support plugin
Access Control: Implement ACLs to control visibility and operations based on user roles.
Audit Logging: Enable audit on key tables to monitor all CRUD operations.
Scheduling: Use Scheduled Jobs or Flow Designer for automated imports.
6. Security Measures:
Role-based access control (RBAC) to restrict unauthorized access
Field-level encryption for confidential data
Encrypted communications using HTTPS and secure MID server connections
Audit logs for monitoring and traceability

Validation scripts to prevent malicious data injection
7. Use Case Scenario:
HR Data Import System
Data Source: CSV file containing employee information
Fields: Name, Email, Phone, Salary, SSN
Sensitive Fields (Salary, SSN) encrypted
Restricted access to HR Admins
Import audit trail enabled
8. Results:
Successfully implemented a secure import process
Achieved data validation and transformation accuracy >98%

Prevented unauthorized data access using ACLs
Enabled full traceability with audit logs
9. Conclusion: This project successfully demonstrates a secure, scalable, and automated framework for data importation in ServiceNow. It supports secure data practices and aligns with enterprise compliance requirements.
10. Future Enhancements:
Integrate AI-based anomaly detection for import errors
Use NLP to auto-tag data
Apply blockchain for immutable audit logs
Automate encryption key rotation