

TICKET DESCRIPTION

ENG - 54

Set Up New Data Repository

DEVELOPMENT TASK SUMMARY

The need to create a new database to store incoming data payloads from external sources. This new database will be used to capture and organize JSON records as part of an upcoming integration project.



Status

IN-PROGRESS

Assignee



Task classification

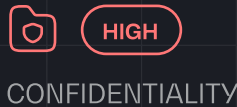
Risk Severity



Confidence



Risk Categories



Identified concerns

1. LACK OF ROBUST ACCESS CONTROLS AND AUTHENTICATION MECHANISMS

2. POTENTIAL EXPOSURE OF SENSITIVE OR PERSONALLY IDENTIFIABLE INFORMATION (PII) IN THE STORED DATA

Sample recommended security requirements

IMPLEMENT ROBUST ACCESS CONTROLS AND AUTHENTICATION

Ensure that the data repository has strong access controls and authentication mechanisms to prevent unauthorized access to sensitive data. This includes implementing role-based permissions, MFA, etc.

Implementation Guidance

1. Define and document role-based access control (RBAC) policies for the new data repository, specifying which user roles have access to read, write, and administer the sensitive data.

Code example generated by AI



```
import java.util.HashMap;
import java.util.Map;
public class RBACManager {
    private Map<String, Map<String, Boolean>> rolePermissions;

    public RBACManager() {
        .rolePermissions = new
HashMap<>();
    }
}
```

IMPLEMENT A DATA CLASSIFICATION AND HANDLING POLICY

Establish a comprehensive data classification and handling policy to ensure that all sensitive data, including the JSON records in the new database, are properly identified, protected, and managed in accordance with relevant regulations and industry best practices.

Implementation Guidance



IMPLEMENT ENCRYPTION AND DATA MASKING TECHNIQUES

Utilize encryption and data masking techniques to protect the sensitive data stored in the new database. This will help ensure that even if unauthorized access occurs, the data remains unreadable and unusable, reducing the risk of data breaches and potential compliance violations.

Implementation Guidance



Want to learn more?

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