

Product Requirements Document (PRD) for Internal Audit and Compliance Management Tool (IACMT)

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1 Overview

1.1 Product Name

Internal Audit and Compliance Management Tool (IACMT)

1.2 Product Description

The IACMT is a software solution designed to streamline the internal audit process by enabling users to:

- Upload guidelines and circulars in various formats (e.g., PDF, Word).
- Automatically extract applicable security controls using AI-powered natural language processing (NLP).
- Organize controls into a centralized audit tracker.
- Identify gaps and assess risks based on compliance status.
- Integrate with Jira for risk mitigation tracking and notifications based on criticality.
- Generate comprehensive, customizable audit reports.

The tool aims to reduce manual effort, improve compliance accuracy, and provide real-time visibility into audit progress and risk mitigation.

1.3 Target Audience

- Primary Users: Internal auditors, compliance officers, and risk managers responsible for conducting audits and managing risks.
- Secondary Users: Management teams requiring audit reports and oversight of compliance and risk mitigation.

1.4 Problem Statement

Current internal audit processes are often manual, time-consuming, and prone to errors, particularly when extracting security controls from large volumes of guidelines and circulars. Organizations need a tool to automate control identification, track compliance, manage risks, and integrate with existing workflows like Jira to ensure timely mitigation.

1.5 Solution Vision

The IACMT will automate and simplify the internal audit process, ensuring organizations can efficiently:

- Extract and track security controls from uploaded documents.
- Identify and prioritize risks based on criticality.
- Facilitate collaboration through Jira integration.
- Generate actionable audit reports for decision-making.

2 Key Features

2.1 Document Upload and Management

- Users can upload guidelines and circulars in formats such as PDF and Word.
- Documents are stored and organized by metadata (e.g., date, type, source) for easy retrieval.

2.2 AI-Powered Control Extraction

- Utilizes NLP to scan uploaded documents and identify applicable security controls.
- Provides a user interface for reviewing and editing extracted controls to ensure accuracy.
- Allows customizable control mapping to define or map specific terms to standard security controls.

2.3 Internal Audit Tracker

- Lists all identified controls in a centralized interface.
- Allows users to mark control status (e.g., compliant, non-compliant, needs review).
- Supports adding comments, evidence, or attachments for each control.
- Enables assignment of responsibilities for mitigation actions.

2.4 Gap and Risk Assessment

- Automatically identifies gaps where controls are not met.
- Assesses risks as low, medium, or high based on predefined criteria or user-defined rules.
- Prioritizes risks for mitigation based on criticality.

2.5 Jira Integration

- Creates Jira tickets for identified risks, including details and required mitigation actions.
- Sends notifications to relevant users (e.g., risk owners, auditors) based on risk criticality.
- Provides a calendar view displaying due dates for mitigation actions.

2.6 Audit Report Generation

- Compiles data into comprehensive reports, including:
 - List of identified risks.
 - Current status of each risk (e.g., open, mitigated).
 - Mitigation actions taken.
 - Responsible parties.
- Supports customizable report templates.
- Allows export in formats like PDF and Excel.

2.7 User Management and Permissions

- Implements role-based access control to restrict actions (e.g., uploading documents, approving reports) to authorized users.
- Allows administrators to manage user roles and permissions.

2.8 Dashboard and Analytics

- Provides a dashboard with key metrics, such as:
 - Number of audits completed.
 - Number of risks identified and mitigated.
 - Compliance status of controls.
- Offers analytics to identify trends (e.g., recurring risks, compliance improvements).

2.9 Customizable Report Templates

- Allows users to create or select predefined report templates tailored to organizational needs.

3 Technical Requirements

3.1 Frontend

- User-friendly interface built with modern web technologies (e.g., React, Angular).
- Responsive design for desktop and tablet use.

3.2 Backend

- Robust backend to handle document uploads, AI processing, database management, and integrations.
- Technologies: Node.js, Python (for AI), or similar.

3.3 AI/NLP Component

- Integration with an NLP service (e.g., IBM Watson, Google Cloud NLP) or a custom model for control extraction.
- Trainable AI model to improve accuracy with domain-specific terminology.

3.4 Database

- Relational database (e.g., PostgreSQL) to store user data, document metadata, control information, audit status, and risk data.

3.5 Integrations

- API integration with Jira for ticket creation, updates, and notifications.
- Optional integration with document management systems for guideline retrieval.

3.6 Security

- Encryption for document uploads and storage.
- Secure authentication and authorization (e.g., OAuth, SSO).
- Compliance with data protection regulations (e.g., GDPR, CCPA).

3.7 Scalability

- Cloud-based architecture to handle large volumes of documents and users.
- Scalable to accommodate organizational growth.

4 User Stories

1. Upload Documents: As an auditor, I want to upload a new guideline so that it can be scanned for security controls.
2. Extract Controls: As an auditor, I want the system to automatically extract security controls from the uploaded document.
3. Track Compliance: As an auditor, I want to see all extracted controls in a list where I can check their compliance status.
4. Risk Notification: As a risk manager, I want to be notified when a new risk is identified, with details on its criticality.
5. Generate Reports: As a manager, I want to generate a report that shows all identified risks and their current status.
6. Track Mitigation: As an auditor, I want to track the progress of mitigation actions in a calendar view.

5 Workflow

1. Upload Documents: Auditor uploads guidelines and circulars.
2. Scan and Extract Controls: System processes documents using AI to extract security controls.
3. Review Controls: Auditor reviews and edits extracted controls.
4. Assess Compliance: Auditor marks each control as compliant or non-compliant in the tracker.
5. Identify Gaps and Risks: System identifies gaps and assesses risks based on non-compliant controls.
6. Create Jira Tickets: For each identified risk, a Jira ticket is created with mitigation tasks.
7. Track Mitigations: Users update mitigation status in Jira, reflected in the tool.
8. Generate Reports: Managers generate audit reports based on current data.

6 Success Metrics

- User Adoption: Percentage of auditors using the tool for audits.
- Time Savings: Reduction in time spent on manual control extraction and report generation.
- Accuracy: Accuracy rate of AI-extracted controls compared to manual extraction.
- Risk Mitigation: Percentage of risks mitigated within set timelines.
- User Satisfaction: Feedback scores on usability and effectiveness.

7 Open Questions

1. AI Accuracy: What is the expected accuracy of control extraction, and how will it be measured?
2. Integration Details: What specific APIs or methods will be used for Jira integration?
3. Document Formats: How will the tool handle non-text document formats (e.g., scanned PDFs)?
4. Scalability: What is the expected volume of documents and users, and how will the system handle it?
5. Security and Compliance: What security measures are needed to protect sensitive audit data?

8 Development Considerations

- Team Composition: Frontend developers, backend developers, AI/NLP specialists, database administrators, integration specialists.
- Timeline: To be determined based on project scope and resource availability.
- Training and Support: Provide documentation and training for users to ensure effective adoption.

9 Sample Internal Audit Tracker

Control ID	Description	Status	Risk Level	Responsible Party
CTRL-001	Implement access controls	Compliant	N/A	IT Team
CTRL-002	Regular security training	Non-compliant	High	HR Team
CTRL-003	Data encryption	Needs Review	Medium	Security Team

Table 1: Sample Internal Audit Tracker

10 Sample Audit Report Structure

- Executive Summary: Overview of audit findings, key risks, and mitigation progress.
- Control Compliance: List of controls with status (compliant, non-compliant, needs review).
- Risk Assessment: Identified risks, criticality, and mitigation actions.
- Recommendations: Suggested actions for unresolved risks.
- Responsible Parties: Teams or individuals assigned to mitigation tasks.