



Risk, E-Cards, and TDS Management Portals – Transforming Enterprise Risk, Identity & Compliance Workflows through Secure Web Automation

The Organization

The client is a reputed Mutual Fund company recognized for operational excellence and structured governance. To strengthen its digital ecosystem, the organization launched multiple automation programs to streamline compliance, risk management and employee engagement through modern web technologies hosted securely on AWS.

Challenge

Earlier, business-critical workflows — risk registration, incident reporting, employee identity management, and TDS certificate issuance — were handled manually using Excel sheets and email chains. This led to inconsistent tracking, delayed approvals, data leakage risks, and lack of visibility. The client required a unified, role-based web platform that ensured security, scalability, and transparent approvals aligned with its governance framework.

Solution

The development team delivered three integrated web applications — Risk Mgmt portal, E-Cards, and TDS Management — using Node.js, React.js, and PostgreSQL, deployed on AWS Linux with Virtual Application Firewall, Load Balancer, and automated CI/CD pipelines for high performance and secure deployment.

- **Risk Mgmt Portal – Risk Register & Incident Reporting:**

Digitizes risk cycles and incident approvals across hierarchical roles — RC, RO, RCO, CRO, and Admin. Includes role mapping, approval matrix, risk replication for new cycles, and automated incident numbering.

A secure digital ecosystem transforming manual compliance, risk, identity processes into integrated auditable web platform

Magic Numbers

- 3× faster approval cycles.
- 90 % reduction in manual work.
- 100 % traceability.
- 0 Downtime.

- **E-Cards – NFC & QR Identity Platform:**

Enables secure digital identity through NFC cards and encrypted rotating QR links linked to employee profiles. Integrated with AWS Redshift for nightly data synchronization and real-time profile access by tap or scan.

- **TDS Management System:**

Provides a secure repository for first-time issuance of TDS certificates, eliminating manual email sharing and ensuring full encryption in transit and at rest.

- **MIS Portal:**

Automates ticketing, session tracking, and billing for financial clients. Replaces complex Excel workflows with dynamic dashboards and automated client-wise calculations.

Benefits

- 100 % elimination of Excel and email workflows
- Role-based access and complete traceability
- 3× faster approval cycles and fewer manual follow-ups
- Real-time visibility of risk and incident data
- Automated Redshift data sync and reporting
- Secure central repository ensuring audit readiness
- Improved employee engagement through smart E-Cards

Results

- 3× faster approval and incident turnaround time
- 90 % reduction in manual coordination and emails
- 100 % traceability of risk and incident actions
- Unified architecture scalable for future modules

Solution Highlights

- **End-to-End Risk Register:** Centralized platform for role-based risk management and incident reporting.
- **Role-based Approvals:** Streamlined approval process through multi-tiered role hierarchy (RC, RO, RCO, CRO, Admin).
- **NFC & QR Integration:** Real-time access to employee data via NFC cards and dynamic QR codes.
- **Secure TDS Certificates:** Digital repository for issuing and tracking TDS certificates, replacing manual email workflows.
- **Automated Data Sync:** Seamless integration with AWS Redshift for nightly data synchronization.

About RSutra Analytics & Consulting

Developed by a specialized **web technology solutions team** with expertise in **Node.js, React.js, Microsoft SQL Server and PostgreSQL** enterprise systems.

The team focuses on **automation, security, and scalability** to deliver data-driven, high-impact solutions for large organizations.

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