NeoBank Digital – Regulatory & Compliance Reporting Module

1. Document Control

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2. Executive Summary

The Regulatory & Compliance Reporting Module ensures NeoBank adheres to all statutory requirements by generating automated reports for financial regulators, auditors, and internal compliance teams. It consolidates data across lending operations, repayment, fraud detection, and customer onboarding. This module reduces manual compliance workload, improves accuracy, and minimizes the risk of regulatory penalties.

3. Objectives

- Automate regulatory and compliance report generation.
- Ensure data accuracy and integrity in submitted reports.
- Provide configurable reporting templates per region.
- Maintain secure and immutable audit logs.
- Reduce manual reporting effort by 60% in the first year.

4. Scope

In-Scope

- Automated generation of compliance reports (AML, KYC, loan disclosures).
- Configurable templates for different regulators.
- Scheduled and on-demand report generation.
- Immutable audit logs of reports.
- Secure submission to regulatory portals (where APIs available).

Out-of-Scope

- Loan decisioning (covered in Application Module).
- Fraud detection (covered in Fraud & Risk Module).
- Collections process (covered in Repayment Module).

5. Key Features

1. **Configurable Templates** – define report formats per regulatory body.
2. **Automated Data Aggregation** – pull from all lending modules.
3. **Audit Logs** – record when and how reports are generated/submitted.
4. **Scheduled Reports** – daily, monthly, quarterly submissions.
5. **Data Validation Engine** – flag missing or inconsistent data.
6. **Export Formats** – CSV, XML, JSON, PDF.
7. **Regulatory Submission APIs** – where regulators provide direct submission endpoints.

6. User Stories

- As a **compliance officer**, I want automated reports so that I can meet regulatory deadlines efficiently.
- As a **regulator**, I want reports in my required format so that I can review them quickly.
- As an **auditor**, I want immutable audit logs so that I can validate reporting accuracy.
- As a **compliance analyst**, I want configurable templates so that I can adapt to new regulatory changes.

7. Integrations

- **Lending Modules** – Application, Repayment, Fraud, KYC.
- **Audit Log Service** – immutable logging.
- **Regulatory APIs** – RBI, SEC, or other central authorities.
- **Data Warehouse** – centralized reporting repository.

8. Authentication & Security

- Authentication: OAuth2.0 + RBAC for compliance staff.
- Data Encryption: AES-256 at rest, TLS 1.3 in transit.

- Immutable logs stored in append-only database.
- Digital signatures on regulatory submissions.

9. Non-Functional Requirements (NFRs)

- **Performance:** Reports generated within ≤ 5 minutes.
- **Availability:** 99.9% uptime for compliance systems.
- **Scalability:** Handle 1M records per reporting cycle.
- **Compliance:** GDPR, AML directives, FATF, RBI guidelines.
- **Security:** Immutable, tamper-proof audit trails.

10. Risks & Mitigations

Risk	Impact	Mitigation
Incorrect data aggregation	Regulatory penalties	Data validation and reconciliation process
Missed submission deadlines	Fines and sanctions	Automated scheduling with alerts
Regulatory format changes	Submission failures	Configurable templates, frequent compliance updates
Unauthorized report access	Data breaches	RBAC + encryption of stored reports

11. Success Metrics

- Report Accuracy: ≥ 99.5%
- Manual Effort Reduction: ≥ 60%
- Regulatory Compliance Incidents: Zero
- On-time Report Submission: ≥ 99%

12. Dependencies

- Availability of data from all lending modules.
- Regulatory API access (where supported).
- Compliance & legal approvals.
- Data warehouse infrastructure.

13. Timeline & Milestones

- **Week 1–2:** Requirements finalization & regulatory mapping.
- **Week 3–4:** Data aggregation service development.
- **Week 5–6:** Report template engine.
- **Week 7:** Audit log integration.
- **Week 8:** Regulatory API integration.
- **Week 9:** Internal testing.
- **Week 10:** UAT & compliance approval.
- **Week 11:** Production rollout.

14. Appendix

- Glossary: AML (Anti-Money Laundering), KYC, FATF.
- Reference Standards: FATF AML Guidelines, GDPR, RBI reporting rules.