# NeoBank Digital – Customer Support & Notifications Module

### 1. Document Control

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## 2. Executive Summary

The Customer Support & Notifications Module provides a seamless, omni-channel support experience for NeoBank customers. It enables automated and human-assisted customer service, while ensuring customers are continuously informed through proactive notifications. This module reduces support costs, improves response times, and enhances overall customer satisfaction.

## 3. Objectives

- Provide multi-channel support (chat, email, phone, in-app).
- Reduce average support response time to under 2 minutes.
- Automate 40% of customer queries with Al chatbots.
- Deliver timely notifications about loan status, repayments, and account activities.

## 4. Scope

#### In-Scope

- Al-powered chatbot for first-level queries.
- Human-assisted support ticketing system.

- In-app & email notifications for account/loan updates.
- · Push notifications for repayments and due reminders.
- Escalation workflows for unresolved issues.
- Customer feedback capture.

### **Out-of-Scope**

- Loan application workflows.
- Fraud detection workflows.
- Collections process (covered in Repayment Module).

### 5. Key Features

- 1. Al Chatbot handles FAQs and simple customer queries.
- 2. **Ticketing System** escalation to human agents.
- 3. Multi-Channel Support chat, email, phone, in-app.
- 4. **Notification Service** SMS, email, push notifications.
- 5. **Loan Status Updates** real-time alerts for approval, disbursal, repayment.
- 6. **Feedback Surveys** post-interaction feedback capture.
- 7. **Agent Dashboard** unified interface for support agents.

### 6. User Stories

- As a customer, I want a chatbot to answer my simple queries instantly so I don't have to wait.
- As a customer, I want to get notified of my loan status so I'm always updated.
- As a support agent, I want a dashboard of all tickets so I can manage cases
  efficiently.
- As a **customer**, I want to give feedback after support so I can share my experience.

## 7. Integrations

- Chatbot Al Service NLP provider (Dialogflow, Rasa, etc.).
- Ticketing System Zendesk/Freshdesk.
- Notification Service SMS/email/push API.
- **CRM Integration** customer profile management.

## 8. Authentication & Security

- Authentication: OAuth2.0 with MFA.
- Secure API integrations with ticketing and notification systems.
- Role-based access control for support agents.
- Encrypted storage of support conversations.

## 9. Non-Functional Requirements (NFRs)

- **Performance:** Chatbot response ≤ 1 second.
- Availability: 99.9% uptime for support services.
- Scalability: Handle 1M notifications/day.
- **Compliance:** GDPR, CCPA (privacy of conversations).
- **Security:** End-to-end encryption of customer communications.

## 10. Risks & Mitigations

Risk	Impact	Mitigation
High chatbot failure	Customer	Continuous model training, fallback to live
rate	frustration	agents
Notification delays	Missed	Multiple providers for redundancy
	reminders	
Ticket backlog	Poor service	Auto-escalation workflows & agent productivity
	quality	KPIs
Data privacy issues	Legal penalties	Encrypted storage & GDPR compliance

## 11. Success Metrics

- Chatbot Automation Rate: ≥ 40% of queries resolved without agent.
- Avg Support Response Time: ≤ 2 minutes.
- Customer Satisfaction Score (CSAT): ≥ 4.5/5.
- Notification Delivery Success Rate: ≥ 99%.

# 12. Dependencies

- Al chatbot vendor contract.
- Notification gateway provider availability.
- Ticketing/CRM system integrations.
- Compliance approvals for customer data handling.

## 13. Timeline & Milestones

- Week 1-2: Requirements finalization & vendor selection.
- Week 3-4: Chatbot integration.
- Week 5–6: Ticketing system integration.
- Week 7: Notification service setup.
- Week 8: Internal testing.
- Week 9: UAT & compliance review.
- Week 10: Production rollout.

## 14. Appendix

- Glossary of Terms: CSAT, CRM, MFA.
- Reference Standards: GDPR, CCPA, RBI customer service guidelines.