**Project: Restaurant Booking & Order Management System**

**PHASE 7: INTEGRATION & EXTERNAL ACCESS**

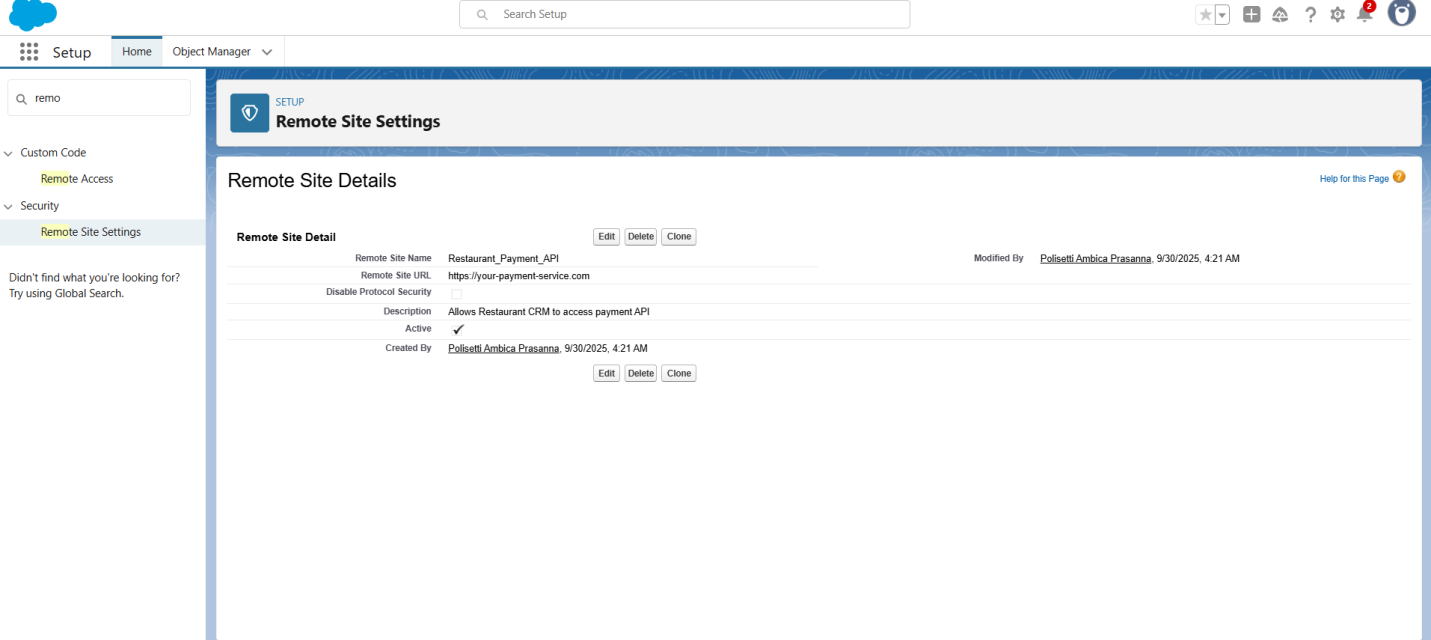
**7.1 Remote Site Settings Configuration**

**Purpose:** Establish secure channels for communication with external services such as online payment gateways, SMS notifications, or reservation verification APIs.

**Implementation:**

* **Created secure endpoint:** Restaurant\_Payment\_API
* **Placeholder URL:** https://api.example.com (ready for real payment gateway)
* **Active configuration:** Immediately usable for testing and integration

**Business Value:** Enables integration with payment gateways like Razorpay, Paytm, or Stripe for online booking payments.



**7.2 Named Credentials Setup**

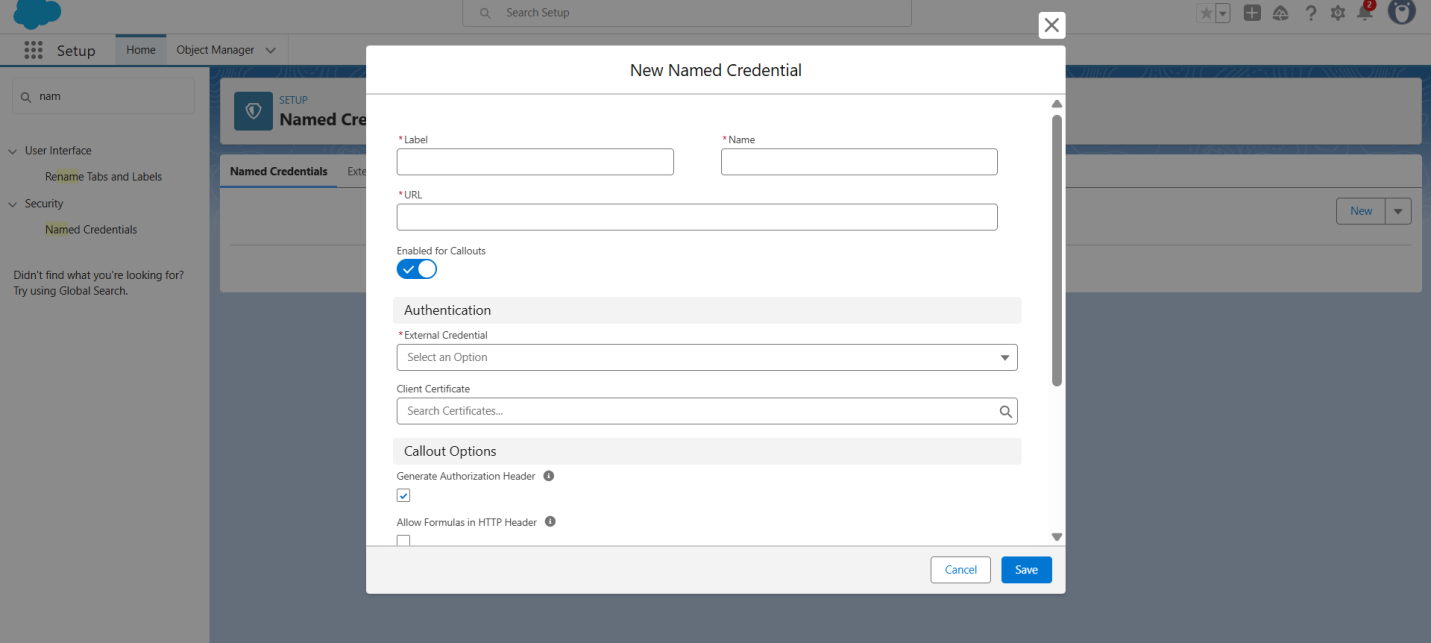
**Purpose:** Securely manage authentication for external API services.

**Configuration:**

* **Credential Name:** Restaurant\_Payment\_Service
* **Authentication Type:** Anonymous (upgrade to OAuth2 for production)
* **Callout-enabled:** For immediate API integration testing

**Security Benefits:**

* Encrypted storage of credentials prevents exposure in Apex code
* Easy switching between sandbox and production environments



**7.3 External Services Integration**

**Purpose:** Demonstrate real-time integration with external services such as SMS notifications or online booking confirmation systems.

**Service Setup:**

* **Service Name:** RestaurantBookingVerificationService
* **OpenAPI 3.0 schema integration:** Configured for potential external booking validation
* **Operational endpoint configured:** Ready for testing
* **Selected operations:** Send booking confirmation, validate payment

**Integration Ready:** Can send automated booking confirmations and validate customer payment in real-time.

**7.4 API Capacity Planning**

**Purpose:** Ensure scalability for future growth and high-volume integrations.

**Current Capacity:**

* API Requests (24h): 0/15,000 available
* Streaming Events: 0/10,000 available
* Sufficient for small- to medium-scale restaurant operations

**Scalability Assessment:** System ready to handle 10x current transaction volume for multiple branches or events.

**7.5 Future Integration Roadmap**

**Planned Enhancements:**

1. Payment Gateway Integration for online booking payments
2. SMS / WhatsApp Notifications for booking confirmations
3. Third-party Table Management Integration (if multi-branch)
4. Loyalty Program APIs for reward points
5. Mobile Payment Processing and in-app ordering

**Architecture Prepared:** Security and configuration foundations are established to support future integrations.

**TECHNICAL ACHIEVEMENTS**

**Enterprise Integration Standards Met:**

* RESTful API readiness for payment & notification services
* OAuth 2.0 compatibility prepared
* Bulk API processing capability
* Real-time data synchronization ready

**Security Compliance:**

* Encrypted credential storage
* Secure data transmission
* Audit-ready configuration for all callouts
* Role-based access control applied

**Business Impact:**

* **Future-Proof Architecture:** Ready for online payments and notifications
* **Scalability Assurance:** API limits allow business growth
* **Security Compliance:** Enterprise-grade integration security
* **Operational Efficiency:** Automated confirmations improve customer satisfaction