

# Feedback Module - Detailed Sequence Diagrams

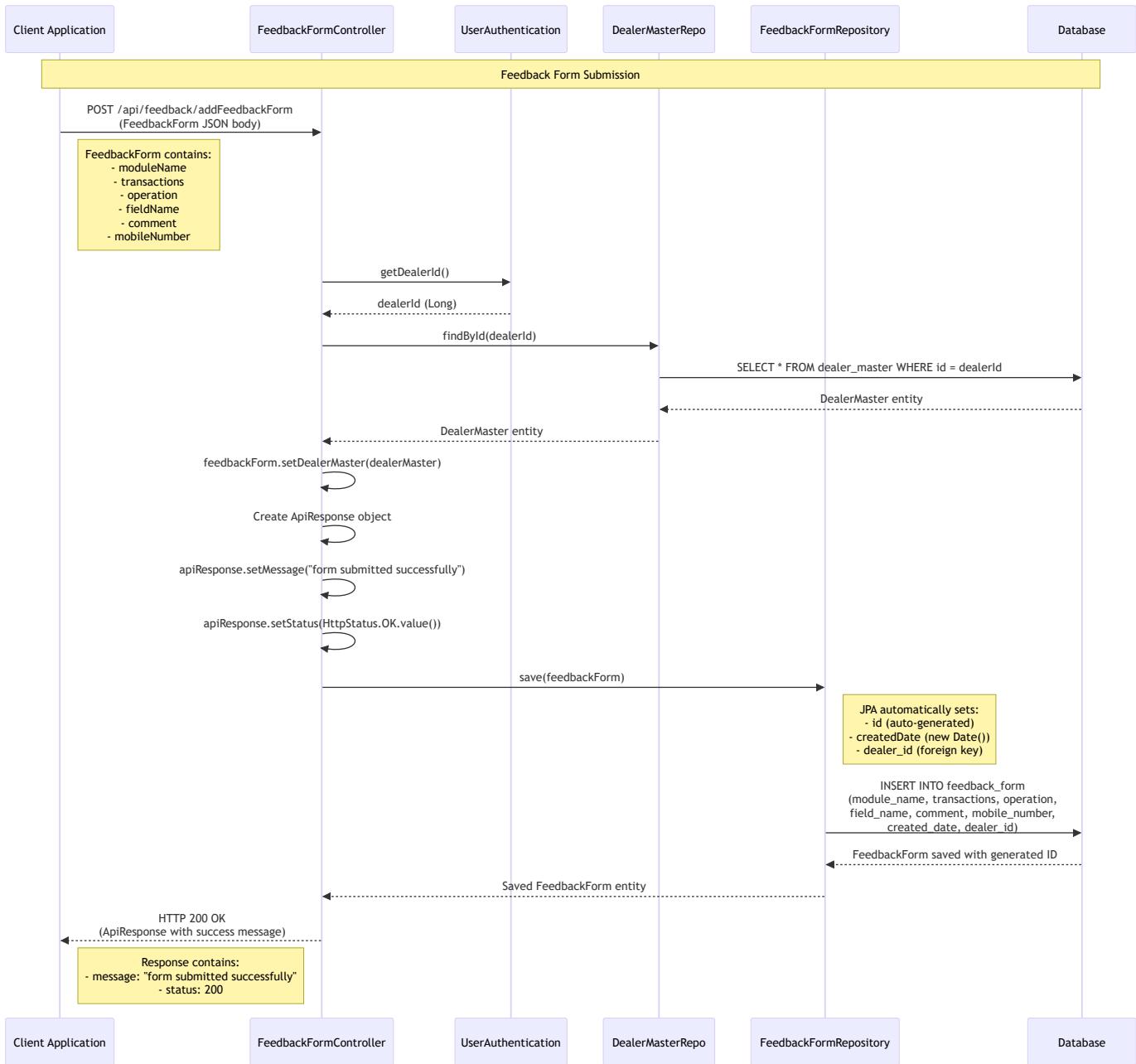
This document describes the **key technical flows** implemented in the `com.i4o.dms.kubota.feedback` module:

- **Feedback Form Submission** (Add feedback form with dealer association).
- **Feedback List Retrieval** (Search and retrieve feedback list with pagination).

All diagrams use Mermaid sequence diagrams and reflect the current implementation of the Feedback module.

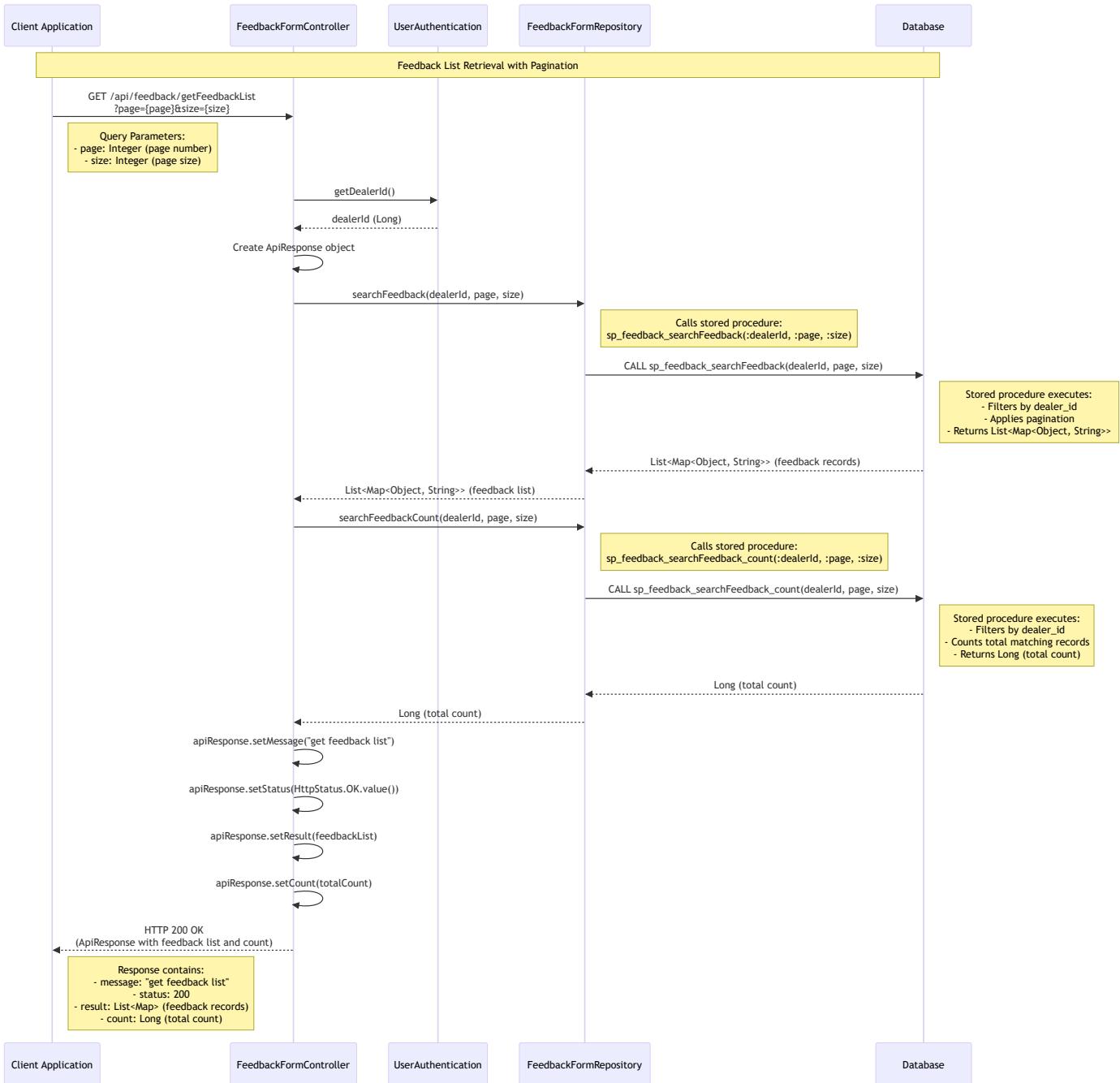
## 1. Feedback Form Submission Flow

This flow shows how **feedback forms** are submitted by users. The system automatically associates the feedback with the dealer based on the authenticated user's dealer ID.



## 2. Feedback List Retrieval Flow

This flow shows how **feedback lists** are retrieved with pagination support. The system uses stored procedures to search and count feedback records filtered by dealer ID.



# Module Architecture Overview

## Components

### 1. FeedbackFormController ( /api/feedback )

- REST controller handling HTTP requests
- Endpoints:
  - POST /addFeedbackForm - Submit feedback form

- o GET /getFeedbackList - Retrieve paginated feedback list

## 2. FeedbackForm (Domain Entity)

- JPA entity representing feedback form
- Fields:
  - o id (Long, auto-generated)
  - o moduleName (String)
  - o transactions (String)
  - o operation (String)
  - o fieldName (String)
  - o comment (String)
  - o mobileNumber (String)
  - o createdDate (Date, auto-set)
  - o dealerMaster (DealerMaster, ManyToOne relationship)

## 3. FeedbackFormRepository

- JPA repository extending `JpaRepository<FeedbackForm, Long>`
- Custom queries using stored procedures:
  - o `searchFeedback()` - Calls `sp_feedback_searchFeedback`
  - o `searchFeedbackCount()` - Calls `sp_feedback_searchFeedback_count`

# Dependencies

- **UserAuthentication** - Provides authenticated user's dealer ID
- **DealerMasterRepo** - Repository for dealer master data
- **ApiResponse** - Standardized API response wrapper

# Database Operations

- **Direct JPA Operations:** Save feedback form using `save()` method
- **Stored Procedures:**
  - o `sp_feedback_searchFeedback` - Search feedback with pagination
  - o `sp_feedback_searchFeedback_count` - Count total feedback records

# Security & Authorization

- All endpoints require authentication (via `UserAuthentication`)
- Feedback is automatically filtered by dealer ID
- Dealer association is enforced at the controller level