

Feedback Module - Detailed Sequence Diagrams

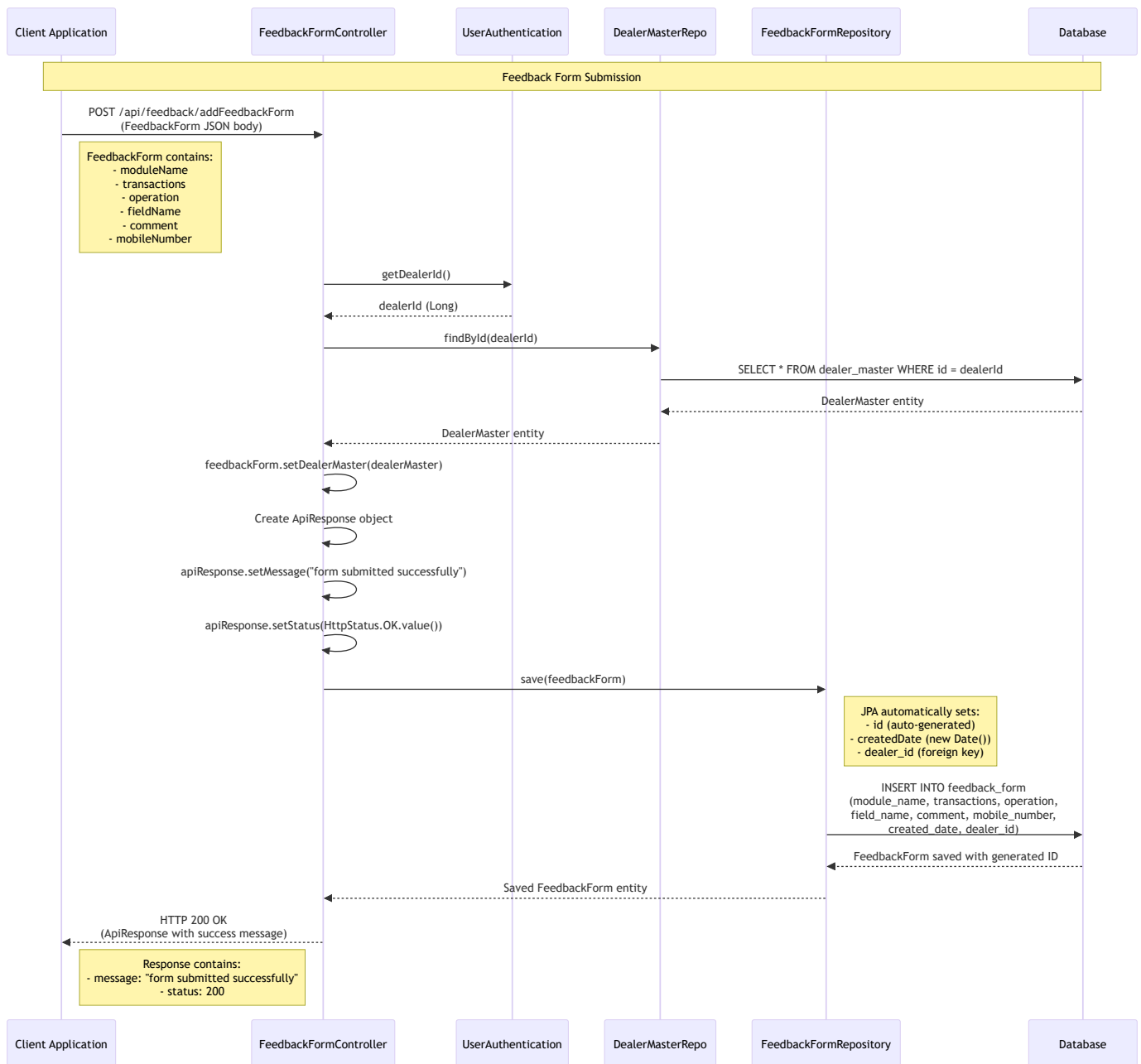
This document describes the **key technical flows** implemented in the `com.i4o.dms.kubota.feedback` module:

- **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.

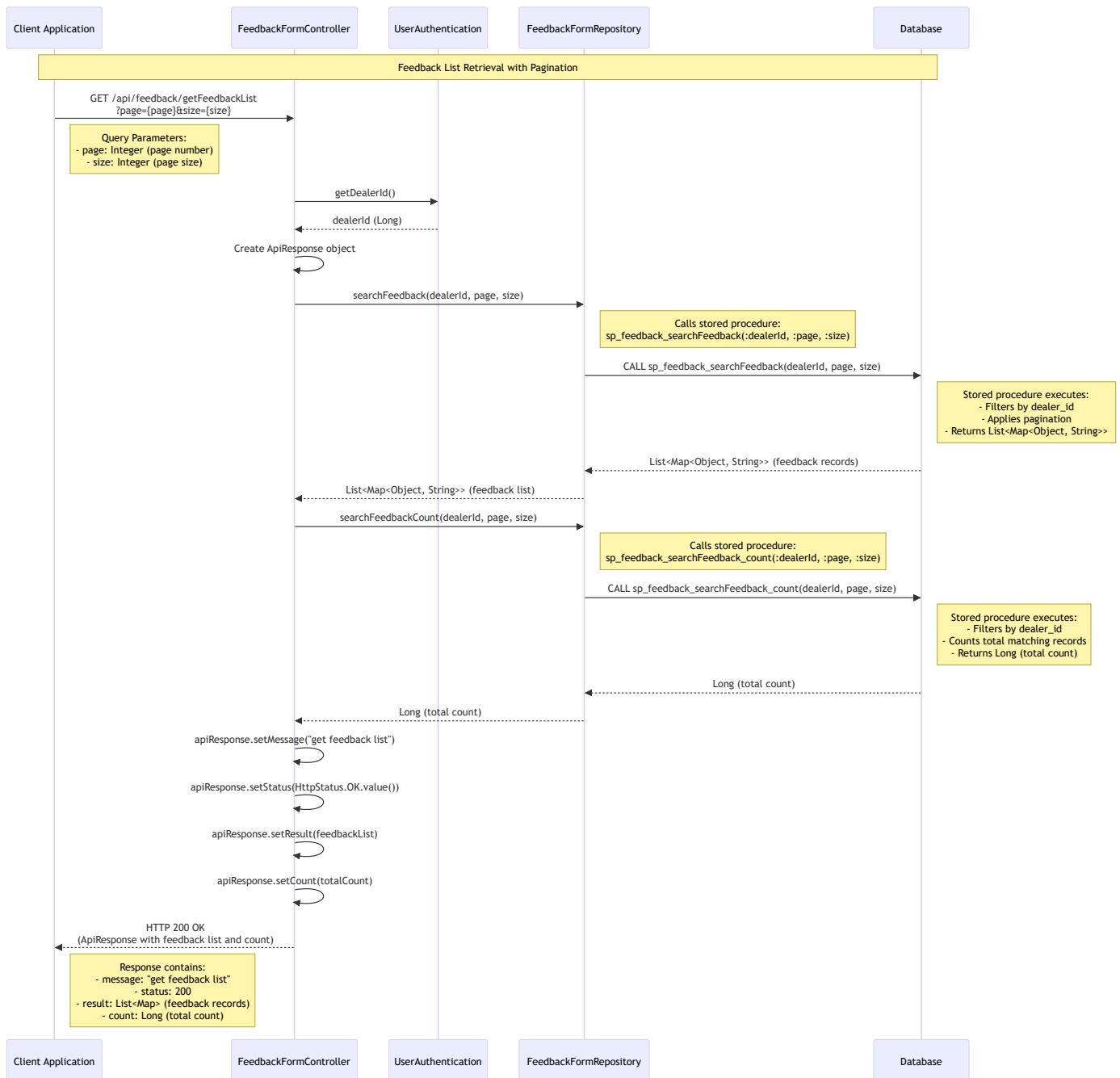
1. Feedback Form Submission Flow

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

- GET /getFeedbackList - Retrieve paginated feedback list

2. **FeedbackForm** (Domain Entity)

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

3. **FeedbackFormRepository**

- JPA repository extending `JpaRepository<FeedbackForm, Long>`
- Custom queries using stored procedures:
 - `searchFeedback()` - Calls `sp_feedback_searchFeedback`
 - `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:**
 - `sp_feedback_searchFeedback` - Search feedback with pagination
 - `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