

Functional Requirements (Functions):

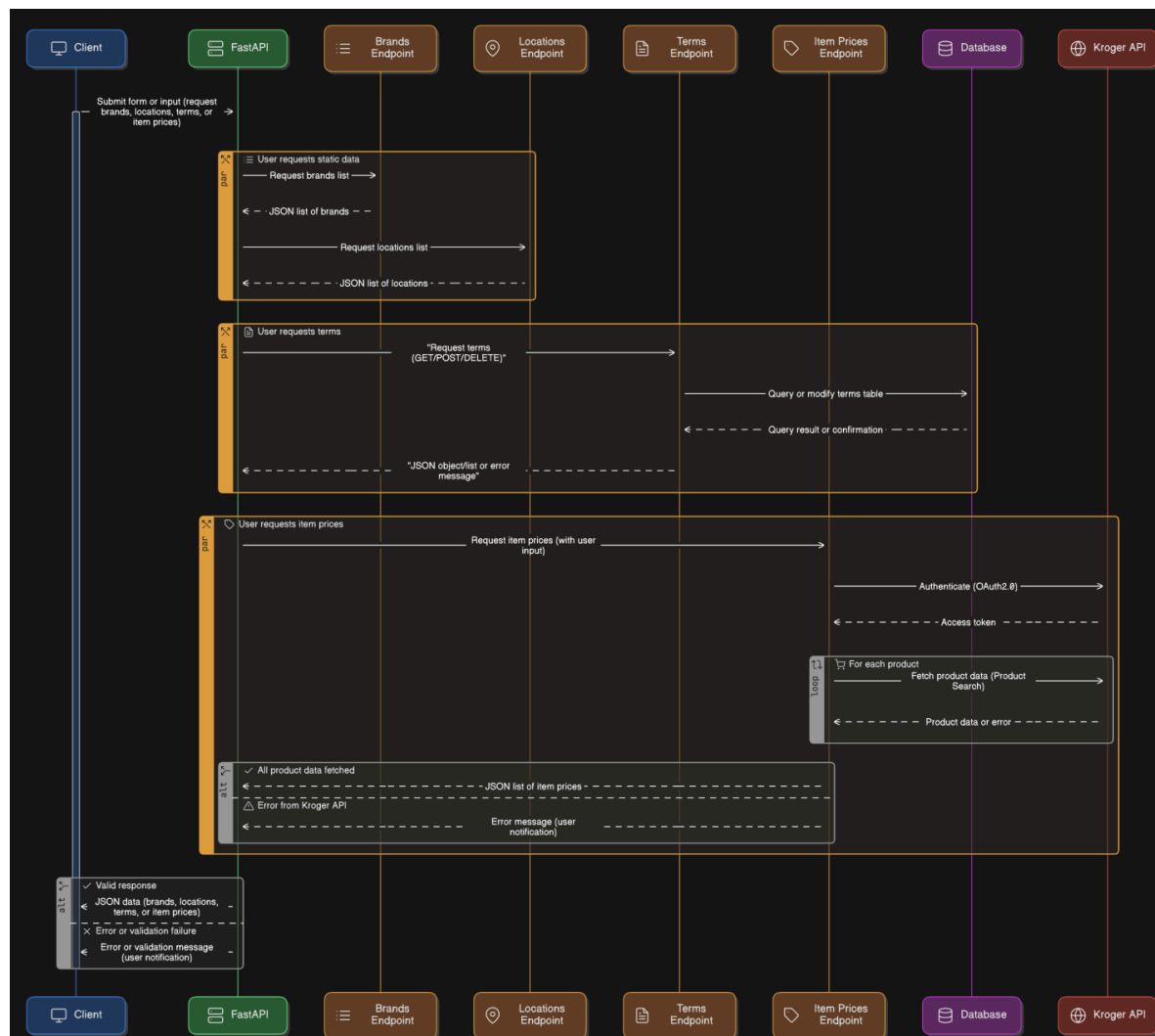
Fetch list of available brands → Returns static brand data from the database.

Fetch list of store locations → Returns static location data from the database.

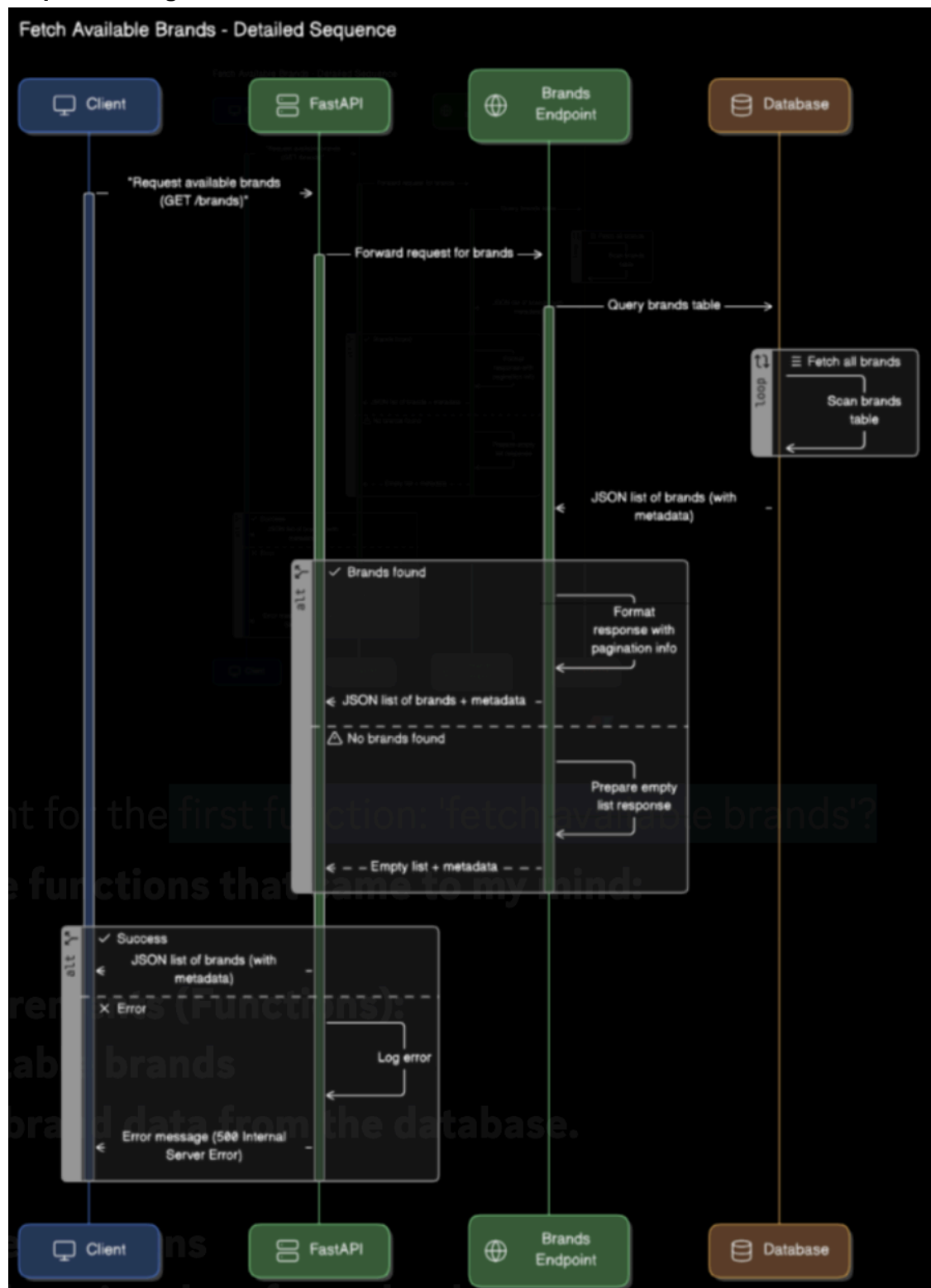
Manage search terms → Allows creating, retrieving, updating, or deleting user search terms.

Request item prices using search terms, brand, and location → Authenticates with Kroger API and fetches product prices based on input.

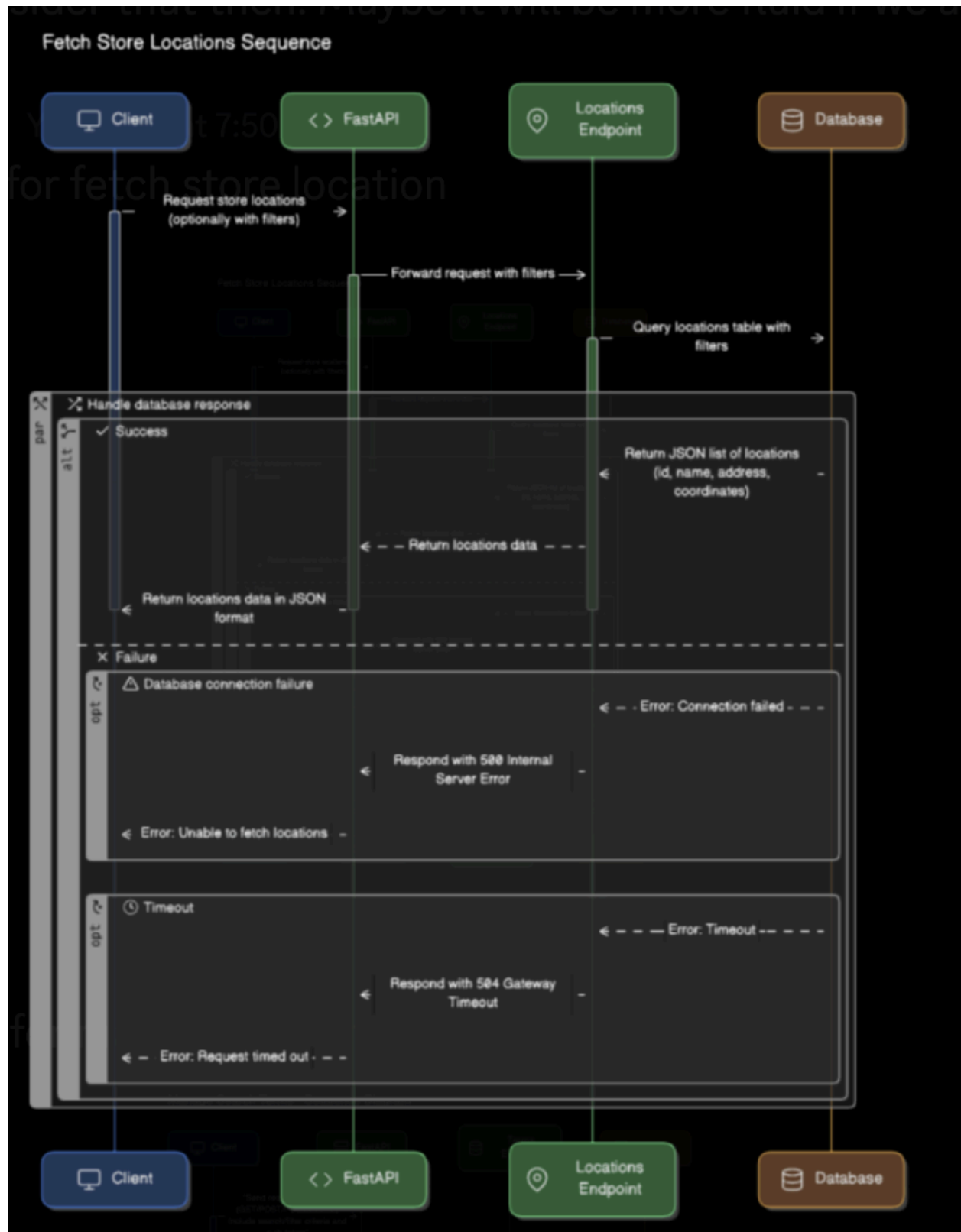
Handle input validation and API errors → Detects and communicates errors from user input or third-party API issues.

Architecture Diagram

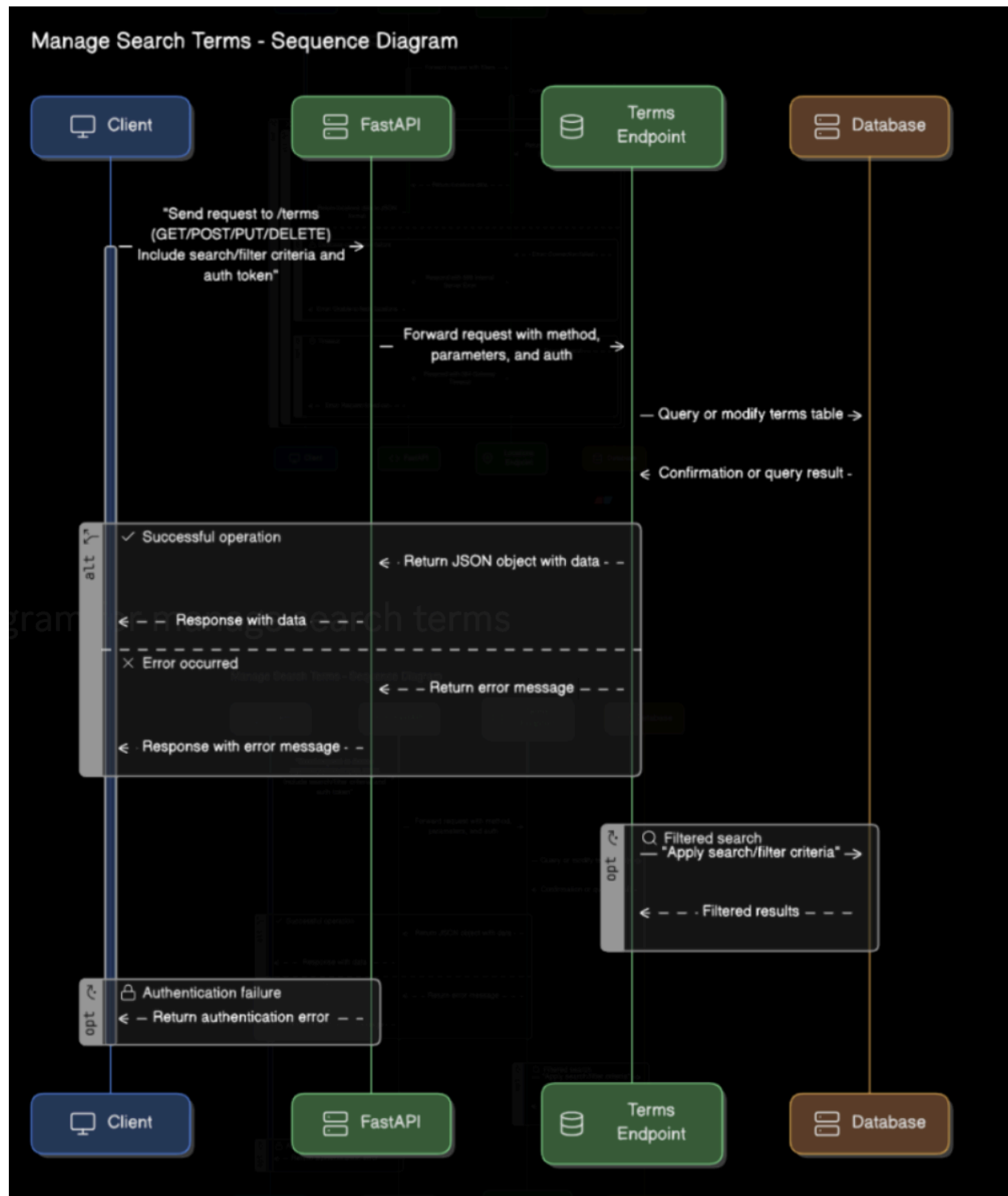
Sequence Diagram for 'fetch available brands'



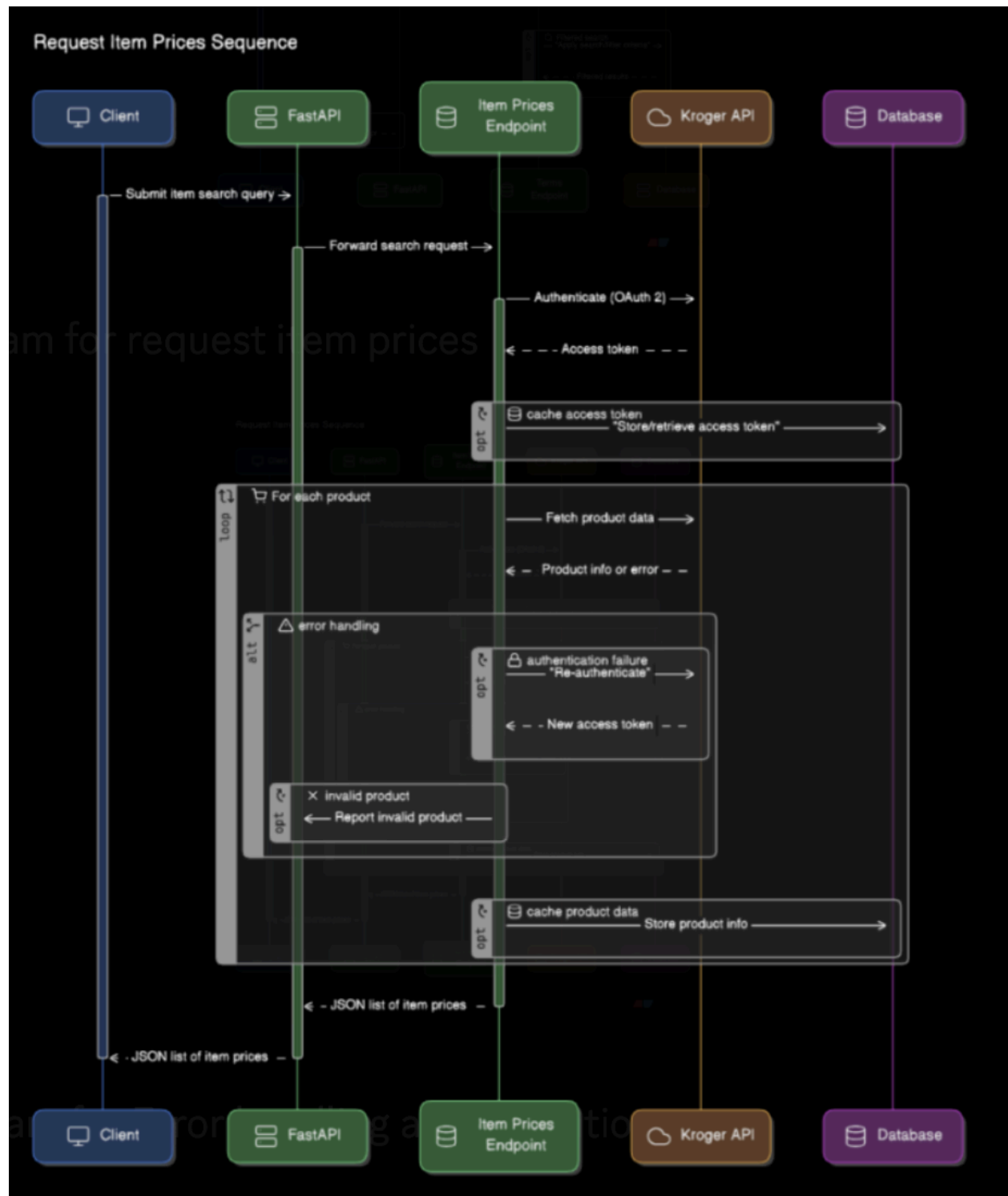
Sequence Diagram for 'fetch store locations'



Sequence Diagram for 'manage search terms'



Sequence Diagram for 'request item prices'



Sequence Diagram for 'Error handling and validation'

