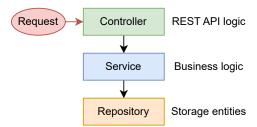
# Bank transaction API

### Controller-Service-Repository Pattern

Separates API logic from business logic



#### **REST APIs**

Authentication: JWT Token

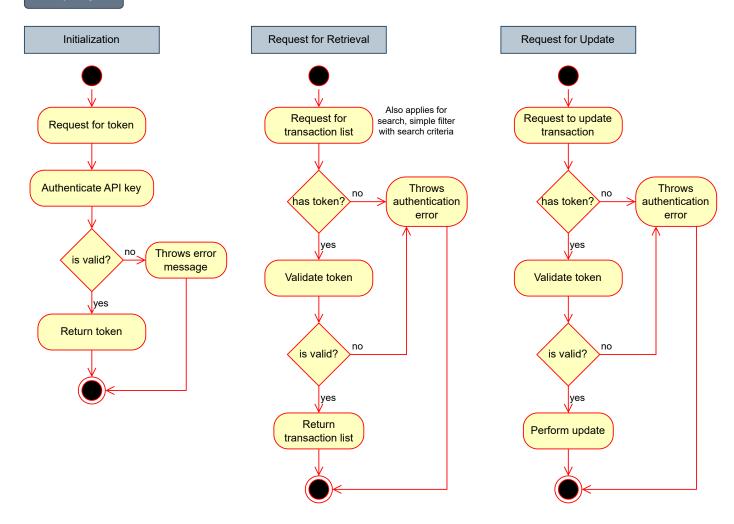
			,
	GET	/api/transactions	Get all transactions
			1
	GET	/api/transactions/{id}	Get transaction by ID
			-
	PUT	/api/transactions/{id}	Update transaction by ID
	POST	/authenticate	Get authentication token

### Requirements

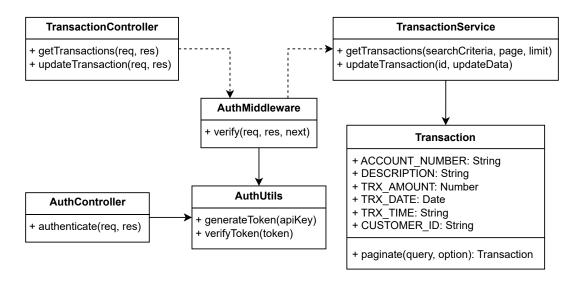
- ✓ 1. Batch job for data consumption Python to extract into MongoDB
- ✓2. Retrieve REST API
- √3. Update REST API
- √4. API with authentication using JWT token, Bearer Auth

  ✓
- √5. API with pagination using mongoose-paginate-v2
- ✓6. Retrieve API can search by customerId multiple value, split by { , }
- √7. Retrieve API can search by accountNumber multiple value, split by { , }
- √8. Retrieve API can search by description
  - 9. Update API can handle concurrency

# Activity Diagram



### Class Diagram



## Entity Relationship Diagram

## transaction\_records

PK \_id

FK1 CUSTOMER\_ID

ACCOUNT\_NUMBER

DESCRIPTION

TRX\_AMOUNT

TRX\_DATE
TRX\_TIME