

Spring Boot + MongoDB: Common Methods Overview

From MongoRepository<T, ID> (built-in methods)

Method	Purpose	Example	Description
save(T entity)	Create/Update	repo.save(obj)	Saves a new object or updates if _id already exists
findAll()	Read All	repo.findAll()	Returns all documents in the collection
findById(ID id)	Read by ID	repo.findById(myid)	Finds one document by its ObjectId
deleteById(ID id)	Delete by ID	repo.deleteById(myid)	Deletes the document matching the ID
deleteAll()	Delete all	repo.deleteAll()	Deletes all documents from the collection
existsById(ID id)	Check if exists	repo.existsById(myid)	Returns true if a document with given ID exists
count()	Count all	repo.count()	Returns total number of documents in the collection

From Your BatchEntryService (custom logic)

Method	Return Type	Description
saveEntry(BatchEntry batchEntry)	void	Inserts a new batch or updates an existing one
getAll()	List<BatchEntry>	Returns all entries in the MongoDB collection
findById(ObjectId id)	Optional<BatchEntry>	Returns the entry with the given ID, if it exists

deleteById(ObjectId id) | void | Deletes the batch entry with the specified ID

updateEntry(ObjectId id, BatchEntry) | String | Finds by ID, updates name and fees, saves back to DB

In BatchEntryController (handling HTTP methods)

HTTP Method	API Path	Method	Description
----- ----- ----- -----			
POST	/batches	createEntry()	Inserts a new batch record into DB
GET	/batches	getAll()	Returns a list of all batches
GET	/batches/id/{myid}	getBatchEntryById()	Fetch a batch by ID
DELETE	/batches/id/{myid}	deleteEntryById()	Delete a batch by ID
PUT	/batches/id/{myid}	updateEntryById()	Update the name and fees of a batch by ID

Real-World Use Case Examples

Scenario	Method
----- -----	
Create a new batch	save() or POST /batches
List all batches	findAll() or GET /batches
Update batch fees	updateEntry() or PUT /batches/id/{id}
Delete old batch	deleteById() or DELETE /batches/id/{id}
Show batch details	findById() or GET /batches/id/{id}