



# MUSIC STORE MANAGEMENT PROYECT

MÓDULOS: ENTORNOS DE DESARROLLO, BASES DE  
DATOS, PROGRAMACIÓN Y LENGUAJES DE MARCAS

CENTRO: COLEGIO MARCOTE, CAMPUS POLITÉCNICO ACEIMAR  
CICLO SUPERIOR DE DESARROLLO DE APLICACIONES MULTIPLATAFORMA

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# RM (Relational Model)

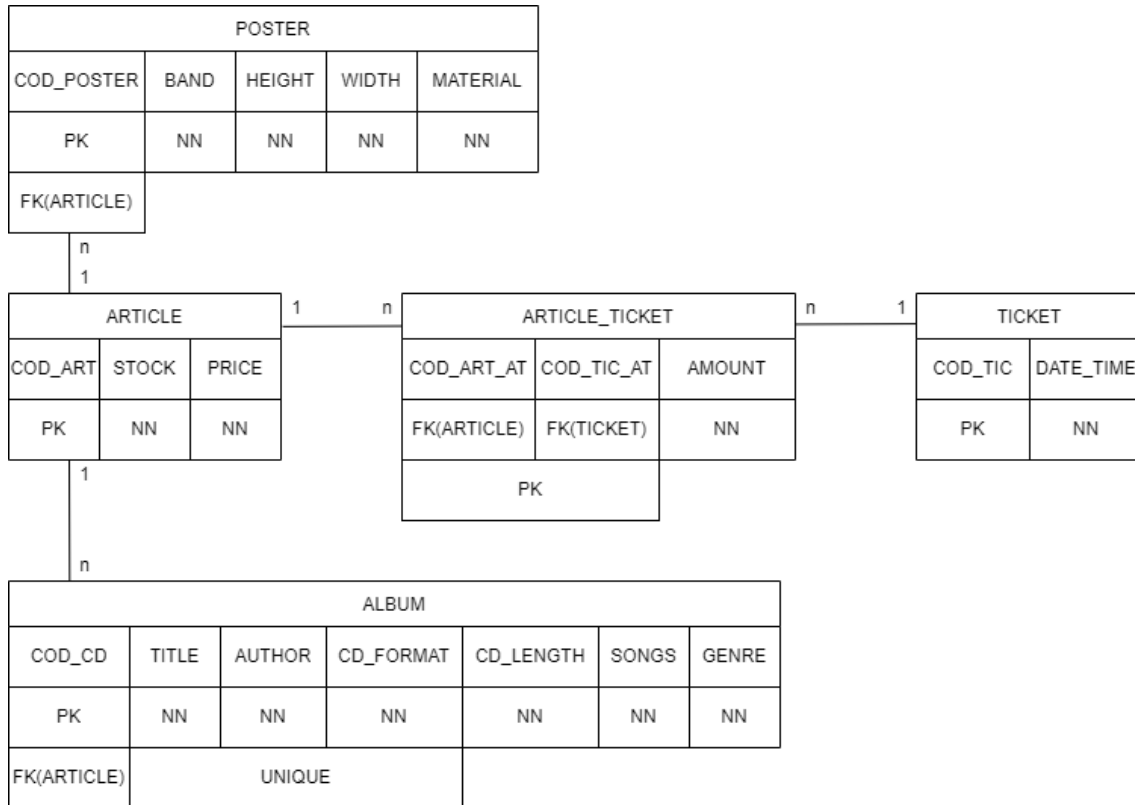


Ilustración 1 Database Relational Model

## Objectives and Use Cases by Actors

### Admin

Objetives	Use cases
<ul style="list-style-type: none"> <li>• Conect into the system</li> <li>• Add new articles</li> <li>• Delete articles</li> <li>• Modify data from the articles</li> </ul>	<ul style="list-style-type: none"> <li>• Login in the system</li> <li>• See articles</li> <li>• See tickets resume</li> <li>• See the 5 best selling articles</li> <li>• Logout</li> </ul>

### Cashier

Objetives	Use cases
<ul style="list-style-type: none"> <li>• Conect into the system</li> <li>• Add new sales</li> <li>• Manage returns</li> </ul>	<ul style="list-style-type: none"> <li>• Add sales</li> <li>• Refound sales</li> </ul>

## General Use Cases

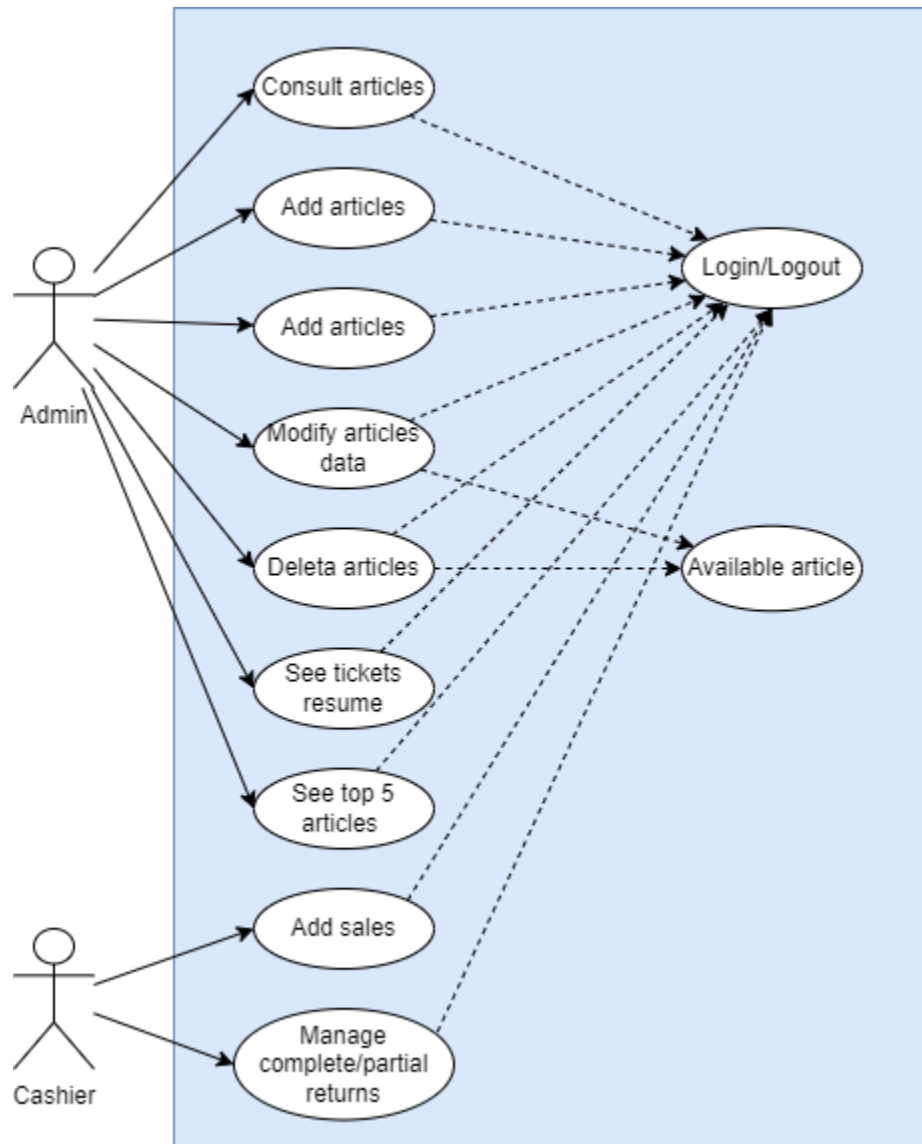


Ilustración 2 General Use Cases

# Classes Diagram

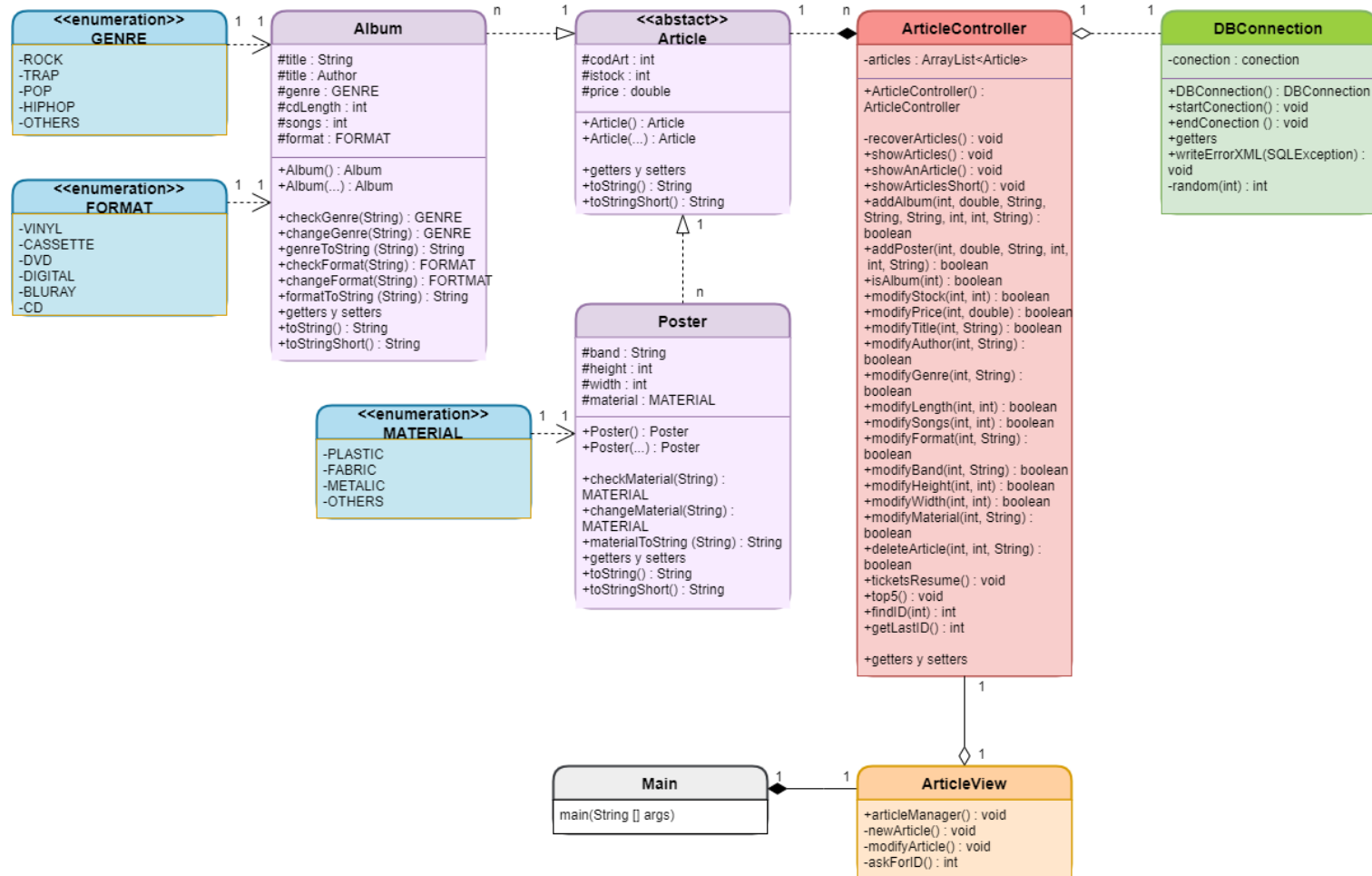
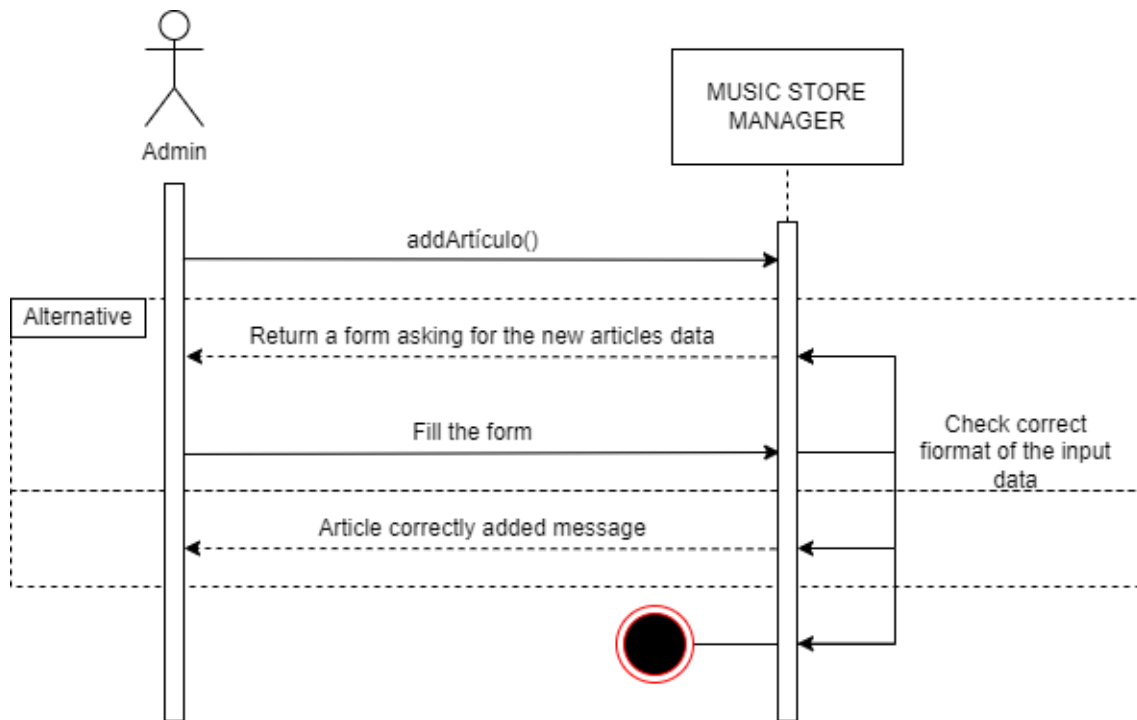


Ilustración 3 Classes Diagram

### Use Case System Sequence (Add Article)



*Ilustración 4 Use Case System Sequence (Add Article)*

# Use Case Sequence (Delete Article)

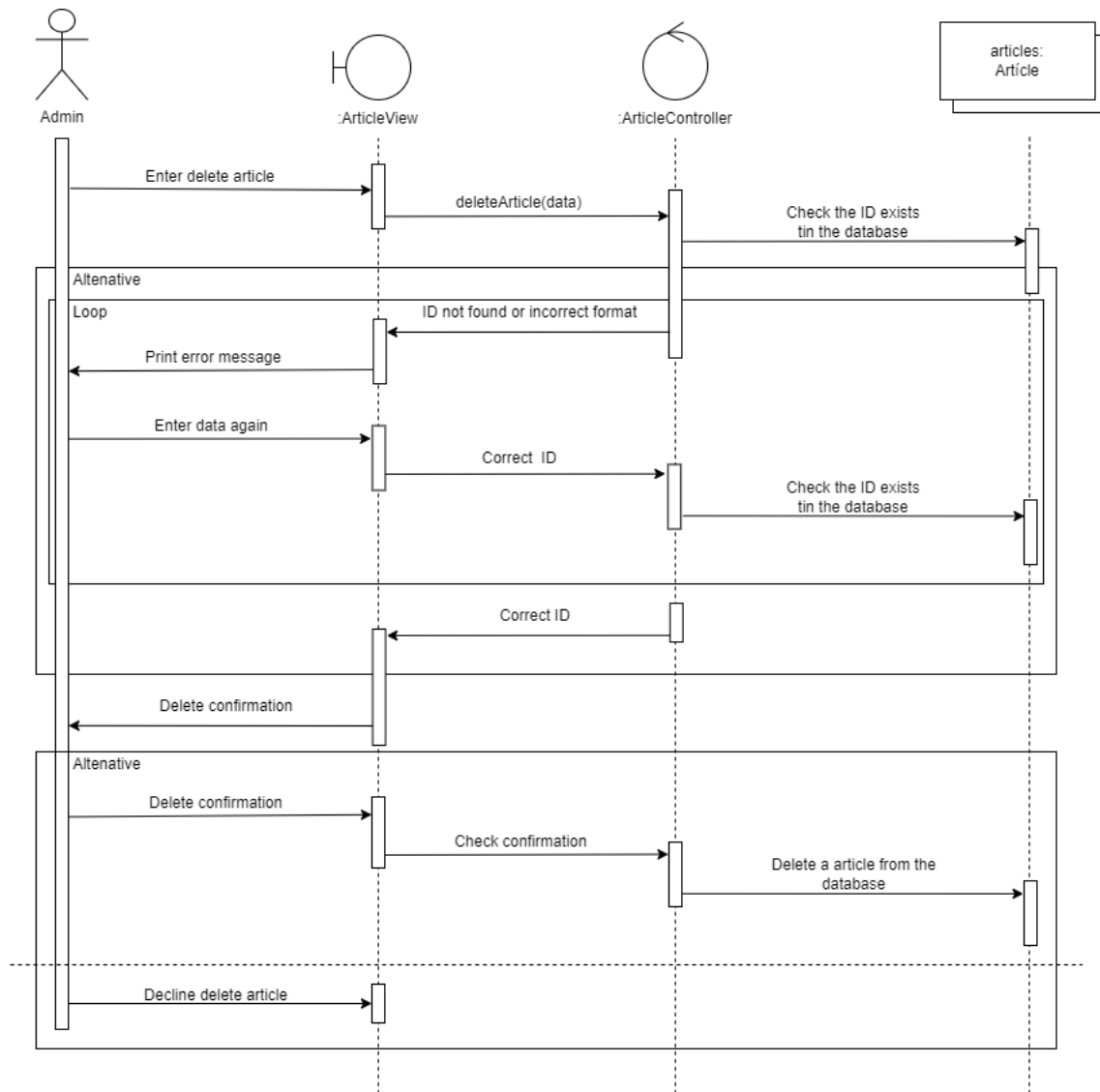


Ilustración 5 Use Case Sequence (Delete Article)

## Activity diagram (Delete Article)

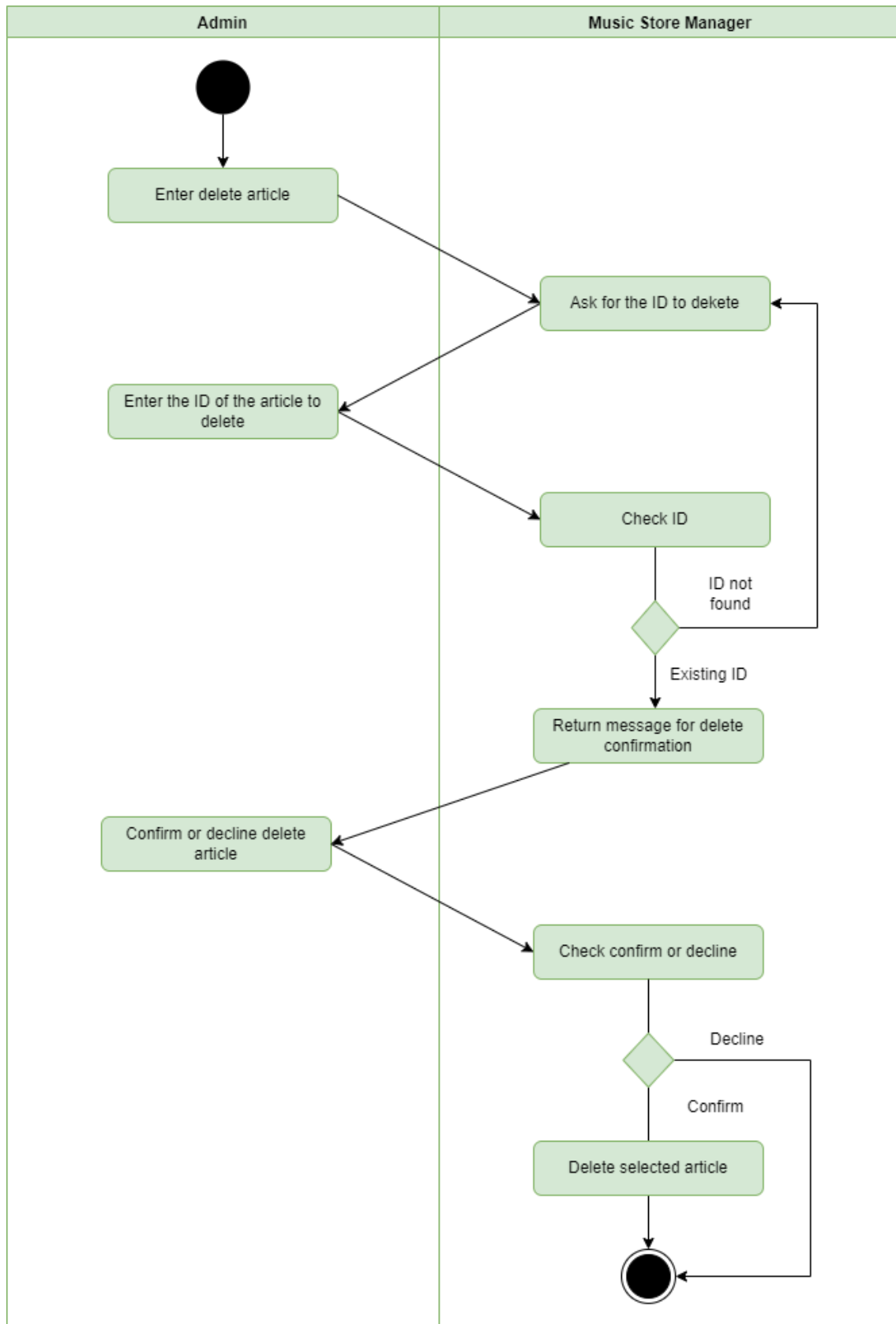


Ilustración 6 Activity diagram (Delete Article)



# Unit Tests

Case 1: Add article		
Objective	Check the correct addition of an article into the DB and the ArrayList	
Preconditions	An article must exists already	
Entry	Data to add to the new article	
Step	Expected	Obtained
Add	Correct addition of an article	Correct addition of an article
Result	Correct test	

Case 2: Add article fail		
Objective	Check the correct addition of an article into the DB and the ArrayList	
Preconditions	An article must exists already	
Entry	Data to add to the new article	
Step	Expected	Obtained
Add	Correct addition of an article	Correct addition of an article
Result	Incorrect test	

Case 3: Delete article		
Objective	Check the correct delete of an article to the DB and the ArrayList	
Preconditions	The selected article must exists already	
Entry	ID of the article	
Step	Expected	Obtained
Add	Correct delete of an article	Correct delete of an article
Result	Correct test	

Case 4: Delete article fail		
Objective	Check the correct delete of an article to the DB and the ArrayList	
Preconditions	The selected article must exists already	
Entry	ID of the article	
Step	Expected	Obtained
Add	Correct delete of an article	Correct delete of an article
Result	Incorrect test	

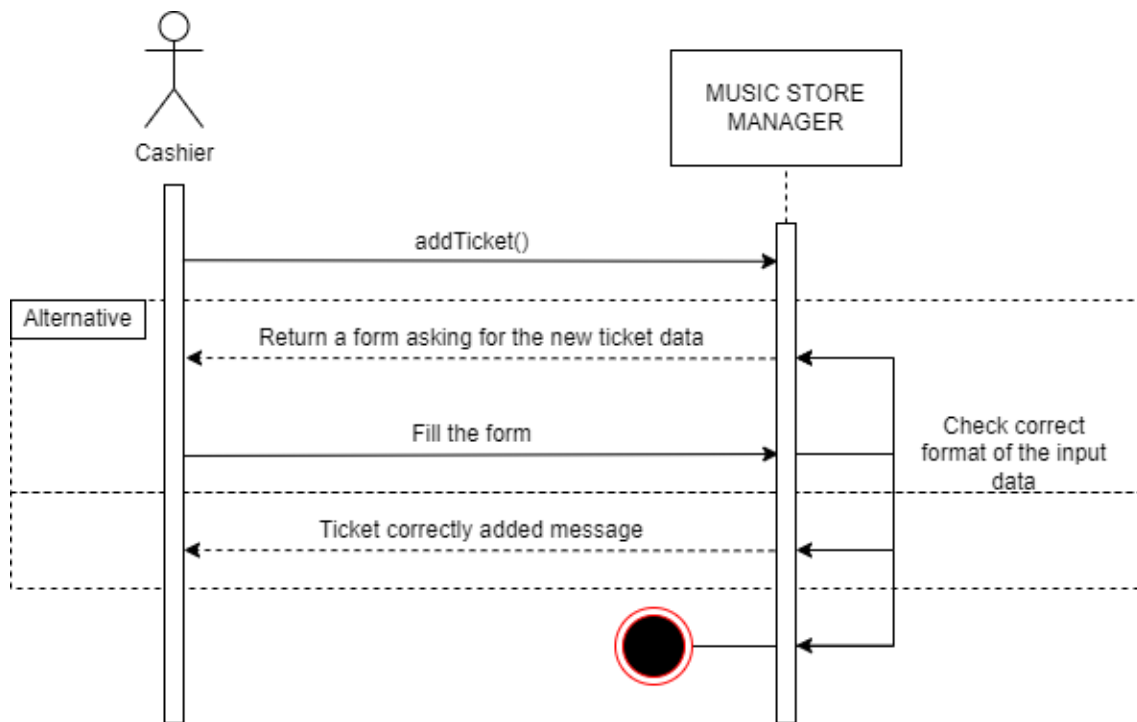
# Additional Requirements

## Use Cases By Actors



Ilustración 7 Use Cases By Actors

## Use Case System Sequence (Add Ticket)



*Ilustración 8 Use Case System Sequence (Add Ticket)*

# Use Case Sequence (Delete Ticket)

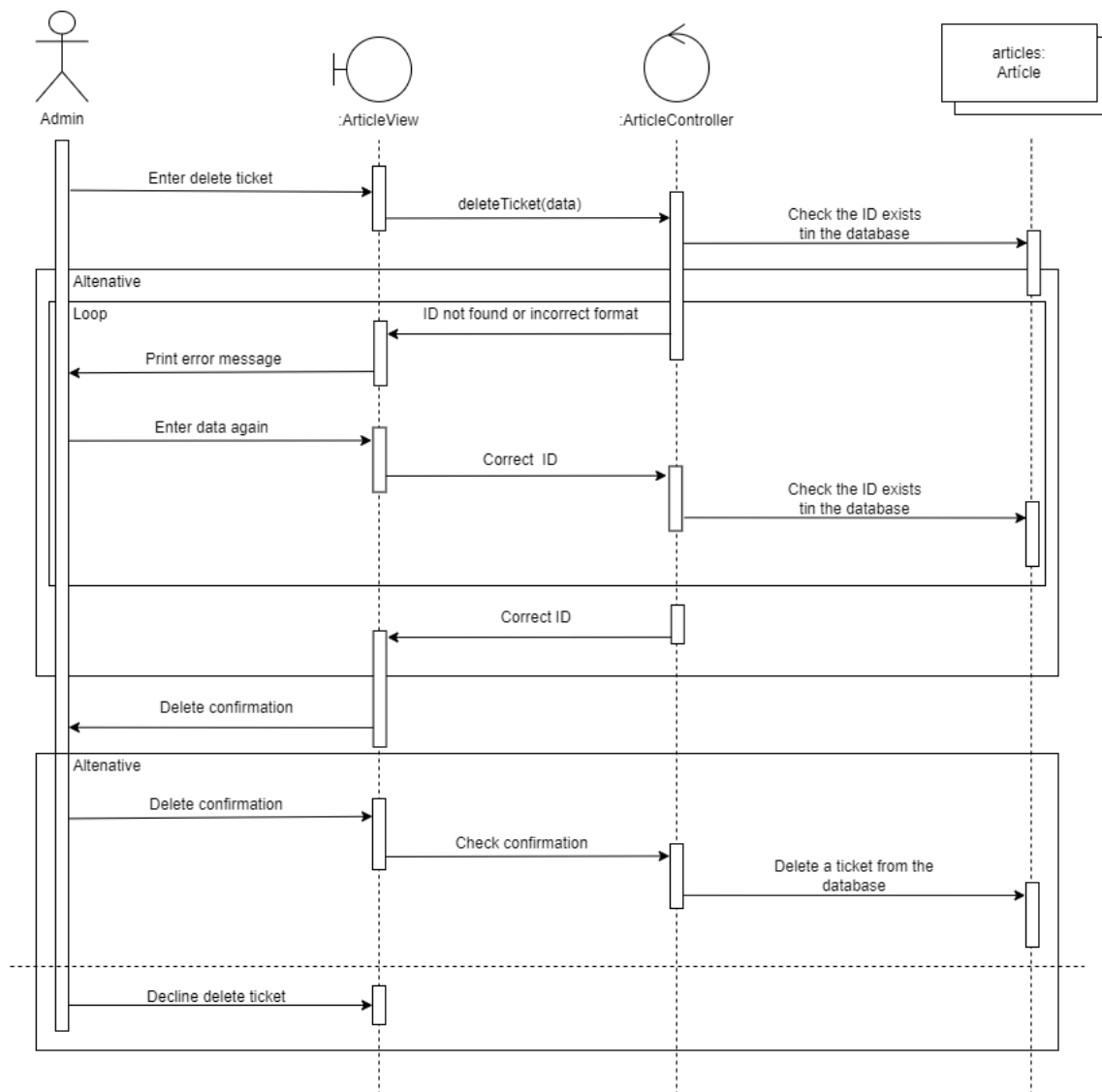


Ilustración 9 Use Case Sequence (Delete Ticket)

## Activity diagram (Delete Ticket)

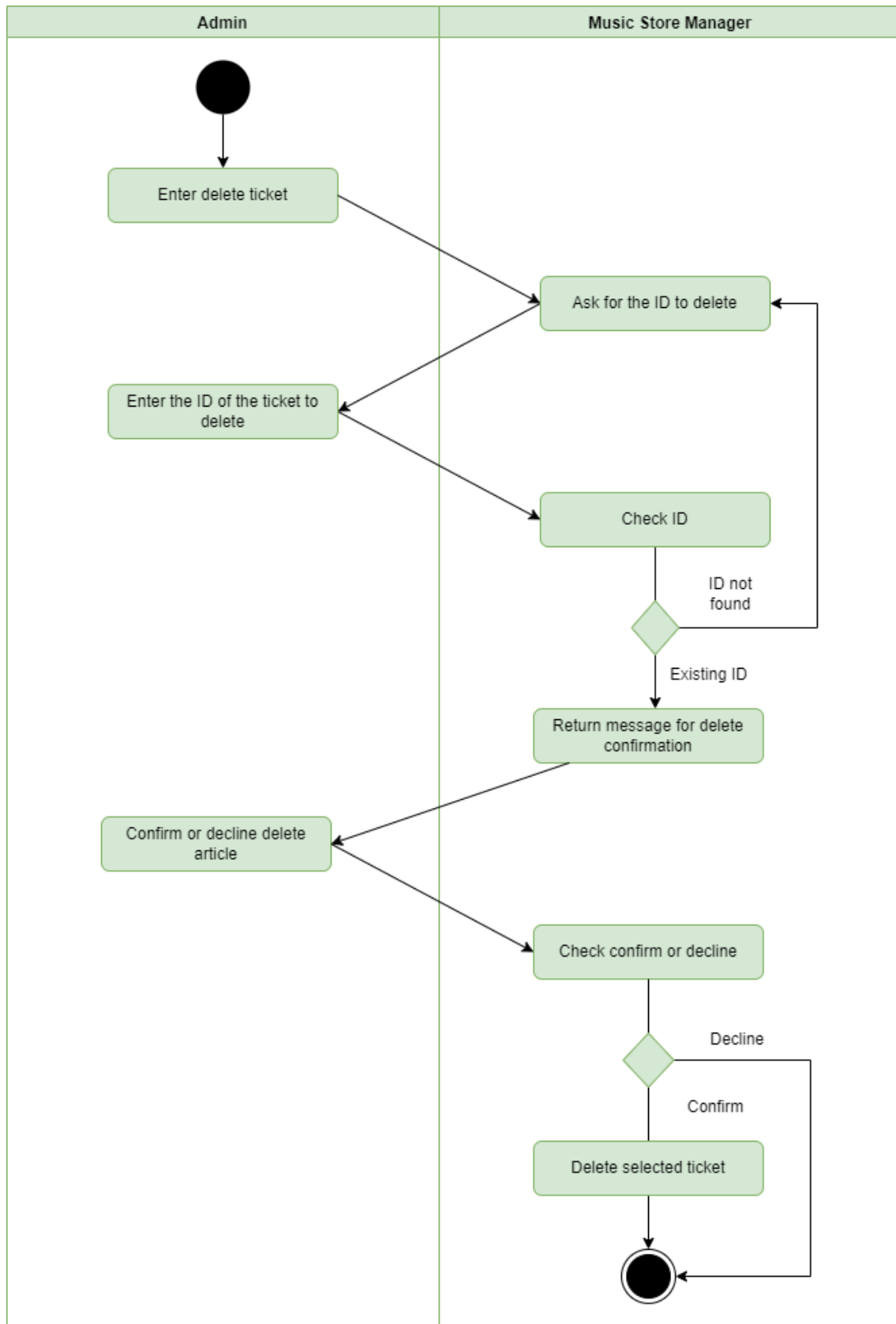


Ilustración 10 Activity diagram (Delete Ticket)