

Bike Renter

UC Reference name / # : Browse Bikes	
Overview	Display all visible bikes with their details for the renter to review
Related Use case	Book a Bike
Actors	Bike Renter

UC Reference name / # : Search Bikes	
Overview	Filter the list of bikes by key words such as make, model, or type.
Related Use case	
Actors	Bike Renter

UC Reference name / # : Book a Bike	
Overview	The bike renter selects the bike, enters rental dates, and submits a booking request for approval.
Related Use case	Browse Bikes
Actors	Bike Renter

UC Reference name / # : Cancel a Booking	
Overview	The renter views their bookings and chooses one to cancel.
Related Use case	
Actors	Bike Renter

UC Reference name / # : View Booking History (My Bookings)	
Overview	Displays all current and past bookings made by the renter, with their status
Related Use case	
Actors	Bike Renter

Bike Showroom Admin

UC Reference Name /# : Add Bike	
Overview	The admin adds a new bike to the inventory by entering its details such as make, model, price, and availability
Related Use case	
Actors	Bike showroom Admin

UC Reference Name /# : Edit Bike	
Overview	The Admin updates an existing bike's details
Related Use case	
Actors	Bike Showroom Admin

UC Reference Name /# : Delete Bike	
Overview	The admin removes a bike from the system's inventory based on its ID
Related Use case	
Actors	Bike Showroom Admin

UC Reference Name /# : View Rental Requests	
Overview	Displays a list of all pending rental bookings
Related Use case	Approve Booking, Reject Booking
Actors	Bike ShowRoom Admin

UC Reference Name /# : Approve Booking	
Overview	The admin selects a pending Booking to approve it
Related Use case	view rental requests
Actors	Bike Showroom Admin

UC Reference Name /# : Reject Booking	
Overview	The admin selects a pending Booking to reject it
Related Use case	view rental requests
Actors	Bike ShowRoom Admin

UC Reference Name /# : List Bikes	
Overview	The admin views all bikes currently in the inventory, including their details, availability, and pricing.
Related Use case	
Actors	Bike showroom Admin

Bike Rental Management System — Sequence Diagrams

1 Browse Bikes

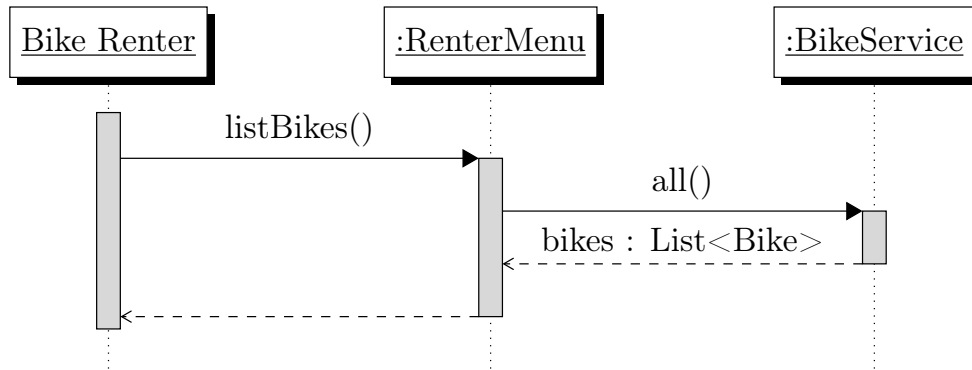


Figure 1: Sequence diagram for the *Browse Bikes* use case

2 Search Bikes

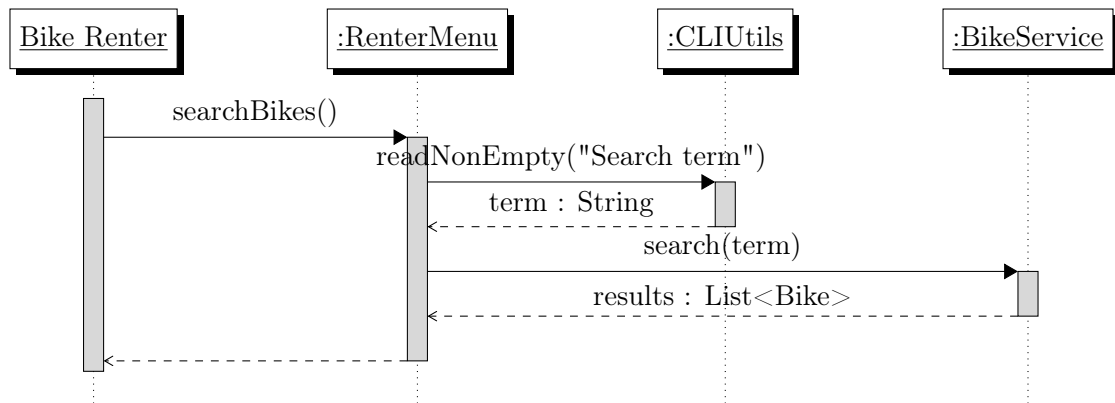


Figure 2: Sequence diagram for the *Search Bikes* use case

3 Book a Bike

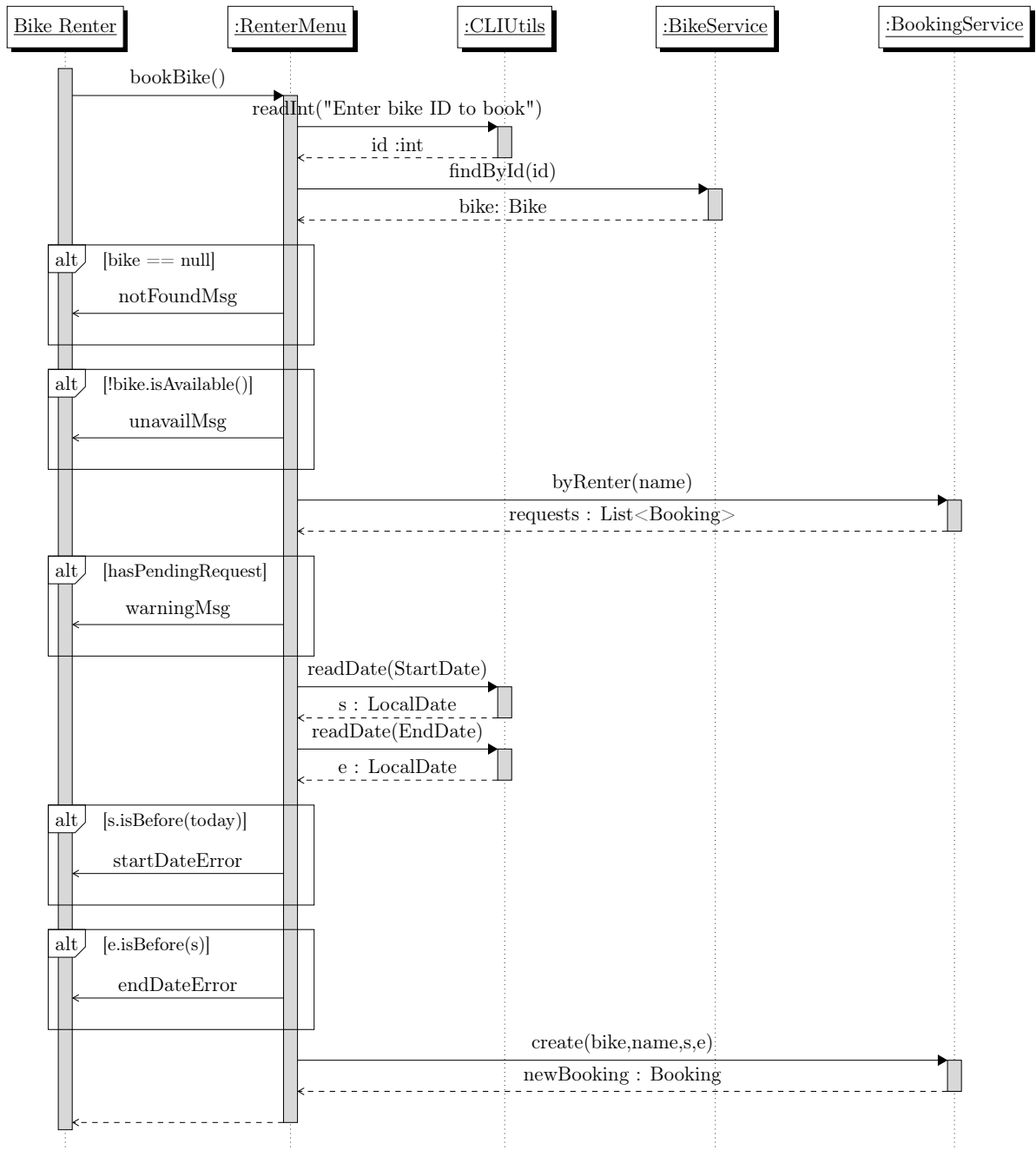


Figure 3: Sequence diagram for the *Book a Bike* use case

4 Cancel a Booking

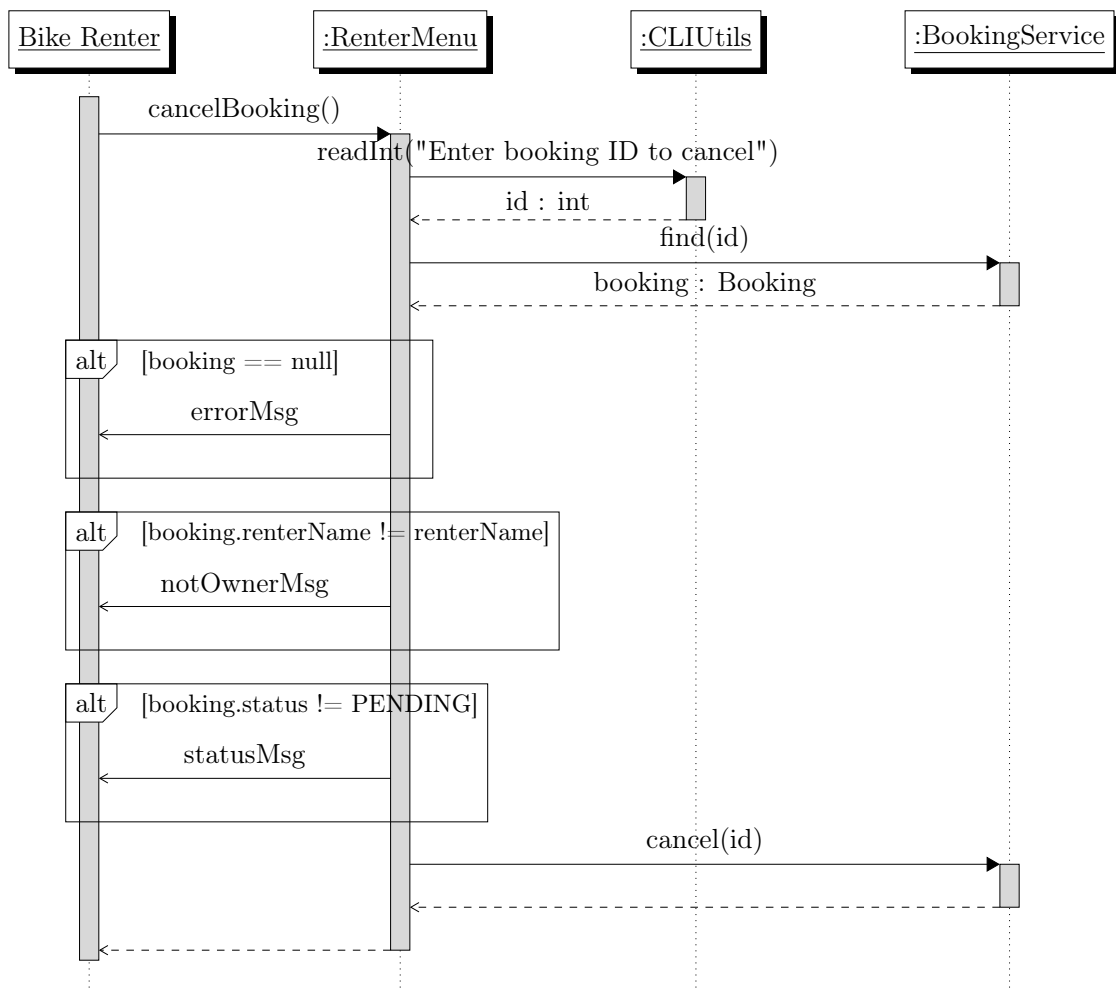


Figure 4: Sequence diagram for the *Cancel a Booking* use case

5 View Booking History

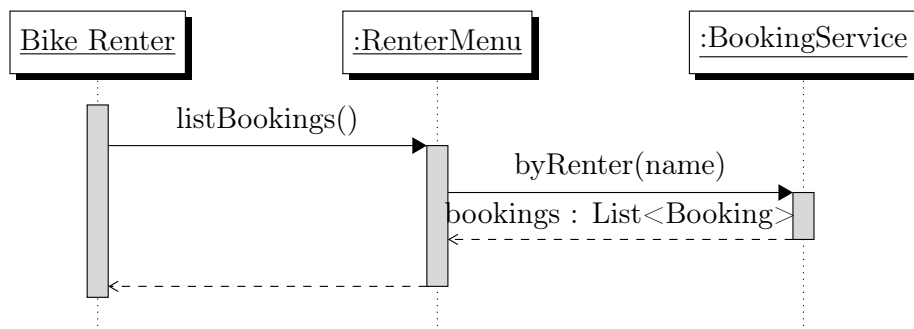


Figure 5: Sequence diagram for the *View Booking History* use case

6 Add Bike

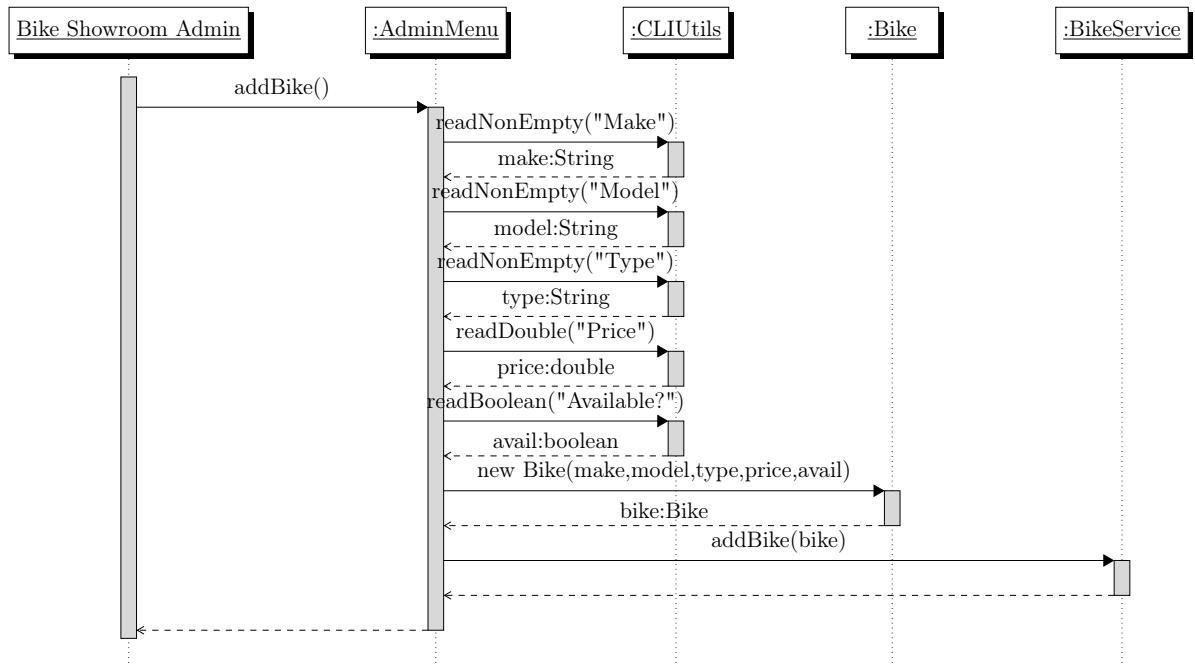


Figure 6: Sequence diagram for the *Add Bike* use case

7 Edit Bike

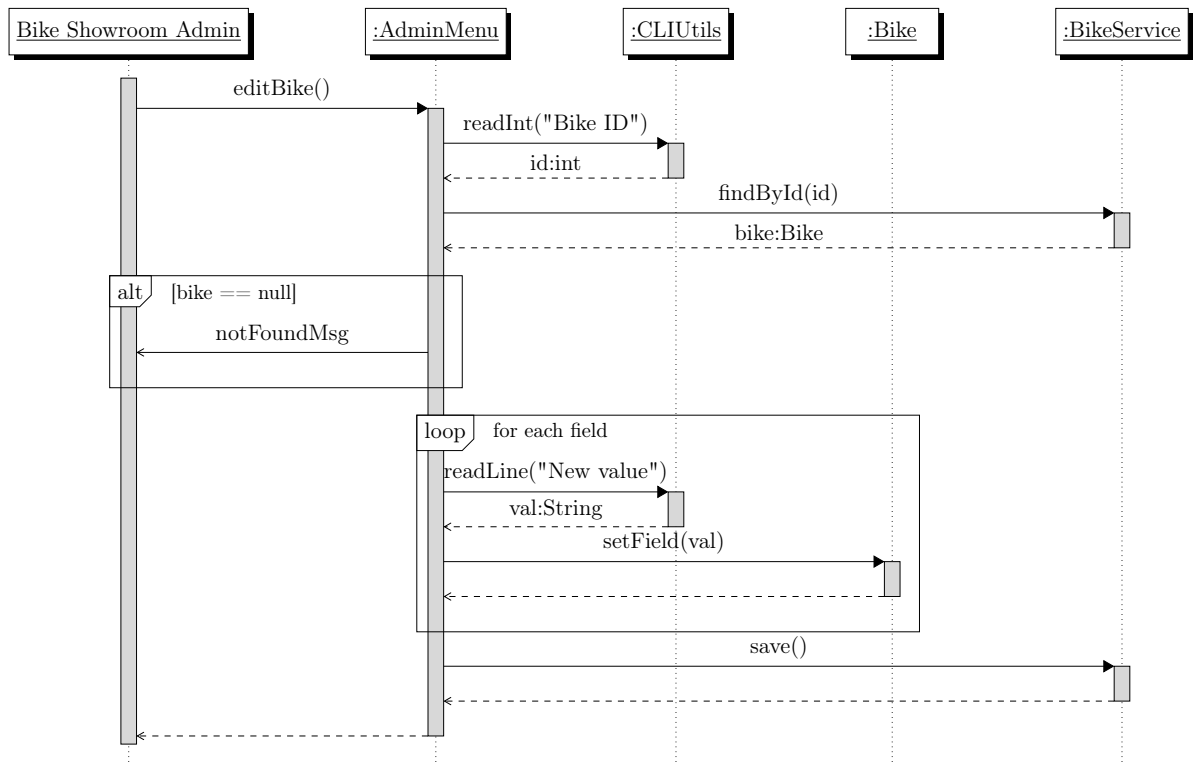


Figure 7: Sequence diagram for the *Edit Bike* use case

8 Delete Bike

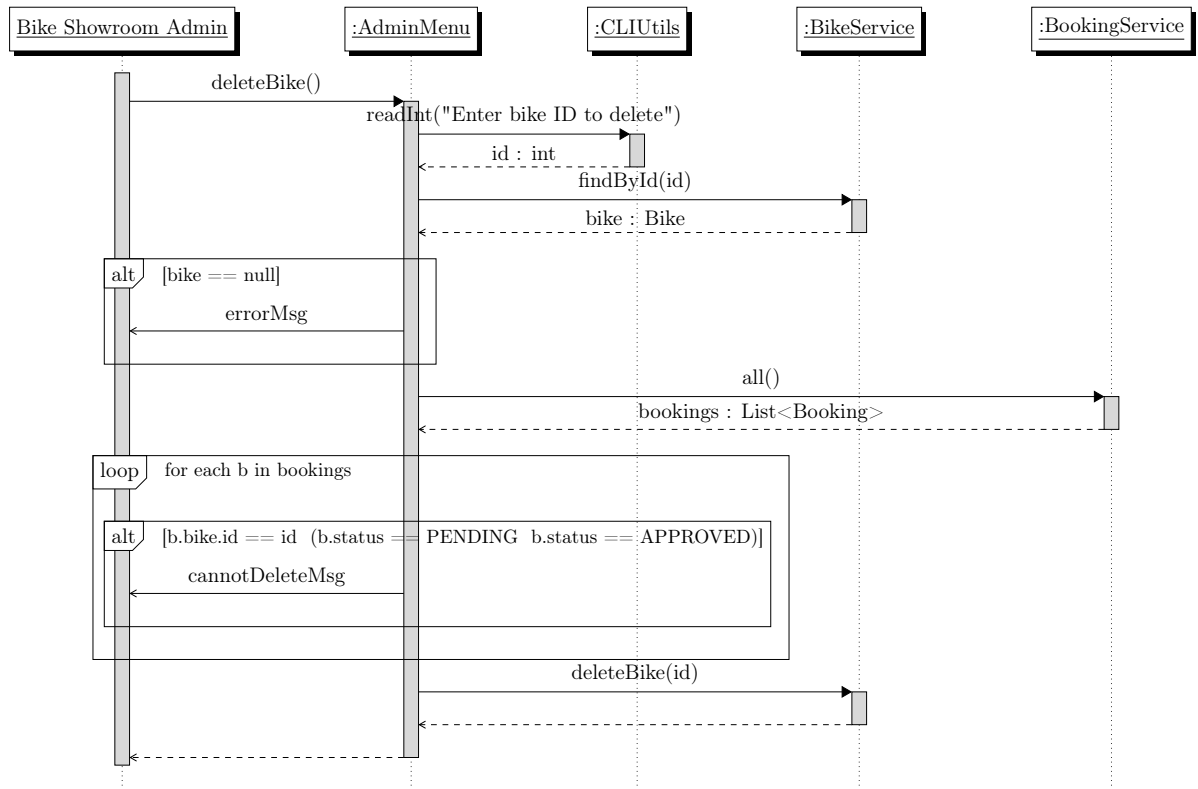


Figure 8: Sequence diagram for the *Delete Bike* use case

9 View Rental Requests

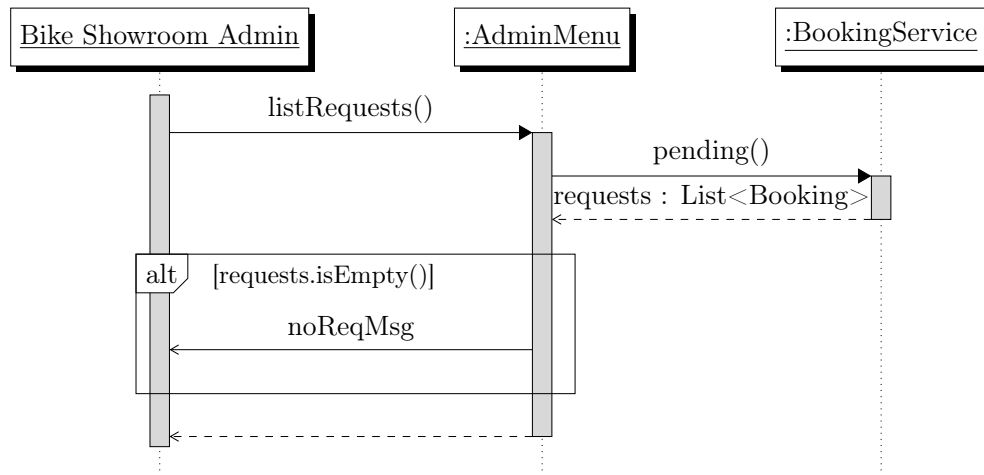


Figure 9: Sequence diagram for the *View Rental Requests* use case

10 Approve Booking

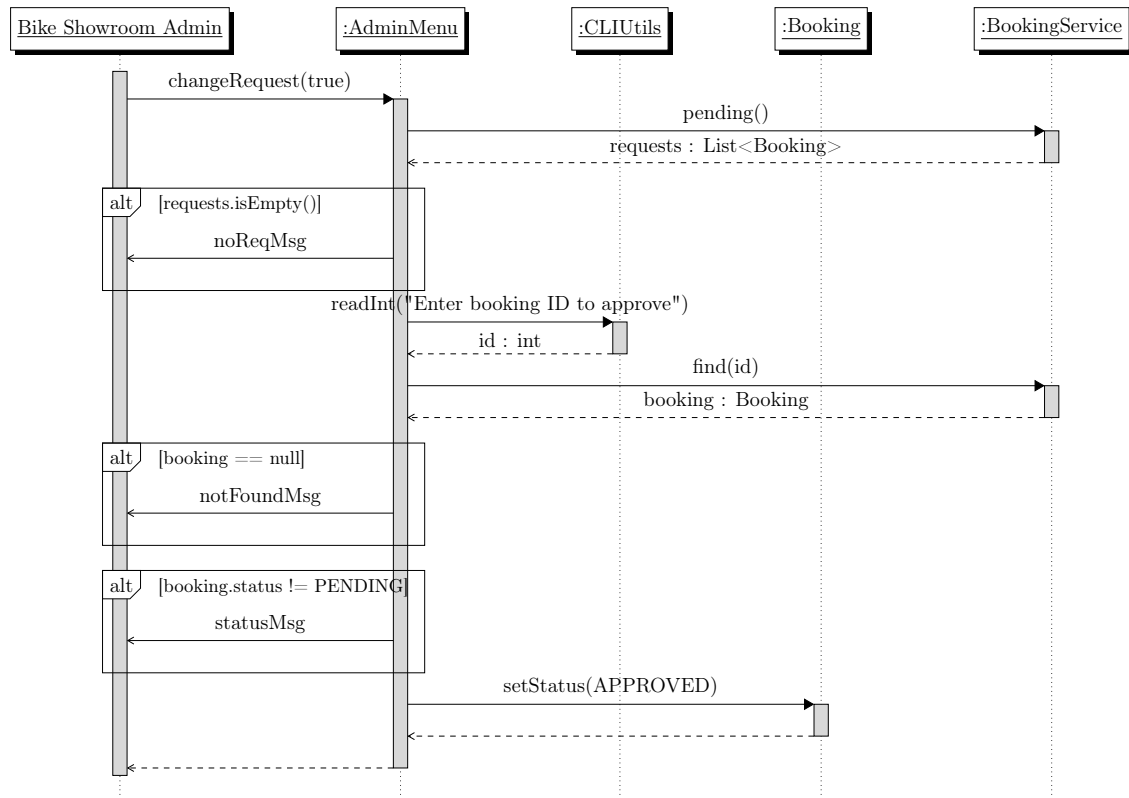


Figure 10: Sequence diagram for the *Approve Booking* use case

11 Reject Booking

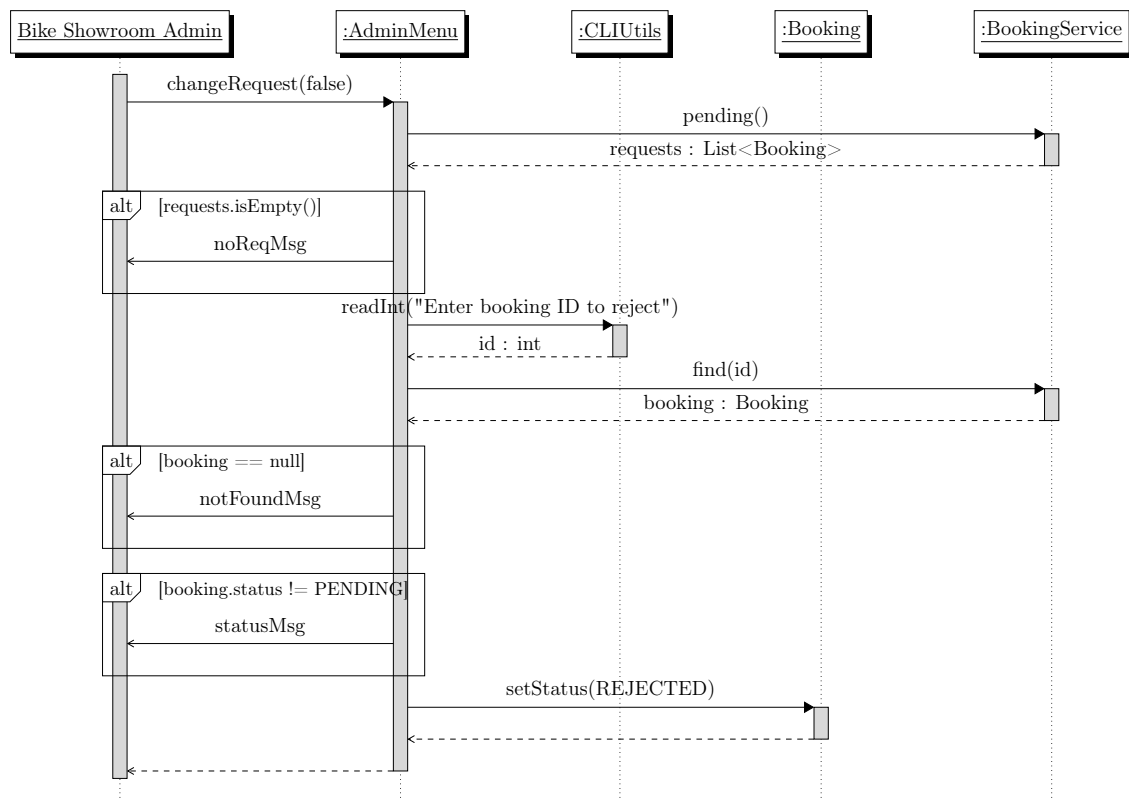


Figure 11: Sequence diagram for the *Reject Booking* use case

12 List Bikes

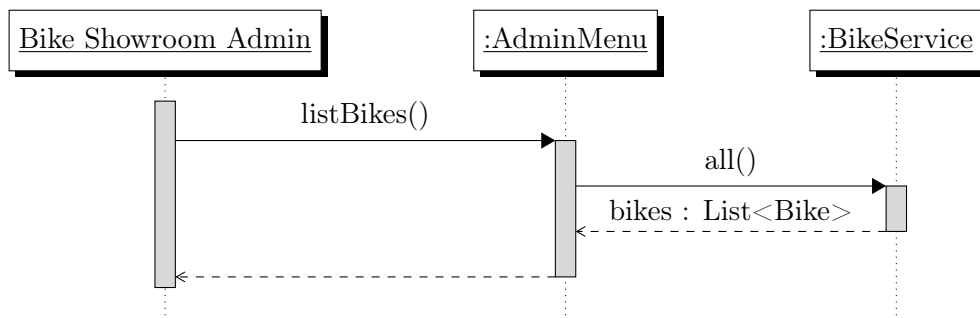


Figure 12: Sequence diagram for the *List Bikes* use case

