

Scenario 2: Customer Browses Movies & Makes Reservation

1- Customer requests to view movies from MovieMenuPage.

2- MovieMenuPage requests movie list from ReservationController.

3- ReservationController fetches movies from MovieDatabase.

4- MovieDatabase returns movie list to ReservationController.

5- ReservationController returns movie list to MovieMenuPage.

6- MovieMenuPage displays movies to Customer.

7- Customer selects movie and showtime on MovieMenuPage.

8- MovieMenuPage sends reservation request to ReservationController.

9- ReservationController executes generateReservationId() method.

10- ReservationController checks seat availability in ReservationDatabase.

11- If seats available, ReservationController saves reservation.

12- ReservationController returns confirmation to MovieMenuPage.

13- Else, ReservationController returns reservationFailed and shows error.

Sequence diagram

