# Showtime API - Test Cases

This document outlines the unit and integration test cases for the Showtime API. Each test covers either a success or failure scenario and specifies the expected outcome.

## Test Cases

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| Test Case Name | Description / Expected Behavior |
| testAddShowtime\_Success | Should successfully add a showtime when all data is valid and movieId exists. |
| testAddShowtime\_MovieIdNotFound | Should return 404 when the provided movieId does not exist. |
| testAddShowtime\_Overlapping | Should return 400 when trying to add a showtime that overlaps with another in the same theater. |
| testAddShowtime\_InvalidTime | Should return 400 when endTime is before or equal to startTime. |
| testAddShowtime\_MissingFields | Should return 400 when any required field is missing or invalid. |
| testGetShowtimeById\_Success | Should retrieve an existing showtime by ID. |
| testGetShowtimeById\_NotFound | Should return 404 if the showtime ID does not exist. |
| testUpdateShowtime\_Success | Should update showtime details correctly when valid data is provided. |
| testUpdateShowtime\_Overlapping | Should return 400 when updated showtime overlaps with another. |
| testUpdateShowtime\_NotFound | Should return 404 if trying to update a non-existent showtime. |
| testDeleteShowtime\_Success | Should delete the showtime from both DB and cache. |
| testDeleteShowtime\_NotFound | Should return 404 if attempting to delete a showtime that doesn’t exist. |