# Names: Omri Portal , Yahav Dayan Software Test Design (STD)

## 1. Introduction

This Software Test Design document provides detailed test cases for verifying the functionality of the Event Management System. The system includes client registration, show creation, dynamic ticket pricing, seat selection, and purchase processing.

## 2. Test Cases

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| Test Case ID | TC-001 |
| Description | Test client registration with valid Israeli ID |
| Preconditions | Server running, client not previously registered |
| Test Steps | 1. Call /clients/login with valid name and valid 9-digit ID 2. Receive success response |
| Expected Result | Client is registered successfully and stored with real ID |
| Actual Result | To be filled during testing |

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| Test Case ID | TC-002 |
| Description | Test client registration with invalid ID |
| Preconditions | Server running |
| Test Steps | 1. Call /clients/login with name and invalid ID 2. Receive system-generated ID |
| Expected Result | Client is assigned a system ID (e.g., SYS1234) |
| Actual Result | To be filled during testing |

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| Test Case ID | TC-003 |
| Description | Test admin creating a new venue |
| Preconditions | Server running |
| Test Steps | 1. POST to /admin/venues with name and capacity 2. Verify rows and seats per row are calculated |
| Expected Result | Venue created with valid layout |
| Actual Result | To be filled during testing |

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| Test Case ID | TC-004 |
| Description | Test creating a new show with dynamic pricing suggestion |
| Preconditions | At least one artist and venue exist |
| Test Steps | 1. Call /shows/recommend-pricing with genre and venue 2. Use suggestion to POST new show |
| Expected Result | Show created and pricing aligns with recommendation |
| Actual Result | To be filled during testing |

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| Test Case ID | TC-005 |
| Description | Test ticket purchase and seat marking |
| Preconditions | Client is registered, show exists with available seats |
| Test Steps | 1. Client selects row and seat 2. Sends payment 3. Seat updated to [X] |
| Expected Result | Purchase successful and seat marked as taken |
| Actual Result | To be filled during testing |

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| Test Case ID | TC-006 |
| Description | Test show revenue calculation |
| Preconditions | At least one ticket was purchased for a show |
| Test Steps | 1. Call /shows/sales/{index} 2. Observe returned revenue and sold ticket count |
| Expected Result | Revenue reflects correct price based on demand |
| Actual Result | To be filled during testing |