**Event Registration System Test Case Documentation**

# Overview

This document provides comprehensive test case documentation for the Event Registration System, utilizing two primary testing techniques:

1. Equivalence Class Partitioning (Weak Testing)

2. Boundary Value Analysis

# Testing Techniques

## 1. Equivalence Class Partitioning

Equivalence Class Partitioning divides input data into valid and invalid partitions to reduce the total number of test cases while maintaining effective coverage.

## 2. Boundary Value Analysis

Boundary Value Analysis focuses on testing the boundaries of input ranges to identify potential edge case failures.

# Use Cases and Test Cases Report

The report is uploaded on Google Drive, generated through a personal Report Generation System built on pure HTML, CSS and JS.

[Use Cases and Test Cases Report](https://drive.google.com/file/d/19Gg0hC9dvKO_L3B_IcDrhE9nQU-S3emW/view?usp=sharing)

# Test Coverage Summary

**Total Test Cases by Feature**

- User Registration: 23 test cases

- Event Selection: 2 test cases

- Payment Processing: 2 test cases

- Email Confirmation: 2 test cases

- Profile Management: 2 test cases

- Password Recovery: 2 test cases

- Event Details Page: 2 test cases

- User Roles: 2 test cases

- Search Functionality: 4 test cases

- User Reviews and Ratings: 4 test cases

- Notification System: 2 test cases

- Event Cancellation: 2 test cases

- Promotional Discount Codes: 2 test cases

- Mobile Responsiveness: 2 test cases

- Data Export: 2 test cases

- Session Management: 2 test cases

- Multi-Language Support: 2 test cases

- Group Registration Discounts: 2 test cases

- Early Bird Registration: 3 test cases

- Promotional Code Validation: 6 test cases

- Payment Plan Options: 4 test cases

- Event Bundle Registration: 4 test cases

- Customizable Registration Options: 2 test cases

- Referral Program: 3 test cases

# Testing Approach

1. Identified valid and invalid input partitions

2. Tested boundary conditions

3. Covered various scenarios including:

   - Positive test cases

   - Negative test cases

   - Edge case scenarios

   - Invalid input handling

# Tools and Methodology

- Testing Techniques: Equivalence Class Partitioning, Boundary Value Analysis

- Test Case Management: Manual test case design

- Coverage: Comprehensive across multiple system features