System Testing — Black Box Test Report (CEMS Portal)

1. Introduction

This document contains the Black Box System Test Cases designed for the CEMS Portal.
The objective of black-box testing is to validate system functionality based on inputs and expected outputs across all user roles, without examining internal code or database implementation details.

2. Scope

Black-box system testing covered the core functional modules of the CEMS Portal. The focus was on verifying user-visible behaviours, data handling, input validation, and role-based workflows.

Modules Included

Authentication

- Signup
- Login
- Forgot Password
- OTP flow
- Password visibility (Show/Hide)
- Field-level validation

Admin

- Sidebar navigation
- Inbox and mail management
- View-only functionalities available in Admin dashboard

Organizer

- Create Event
- Create Team
- Event Draft Editing
- Publishing Events
- Map Annotation (Set Location, Save, Delete)
- Sidebar navigation

Student

- Event registration
- Signup validation

Sponsor

- Creating Ads
- Uploading media (images, videos)
- Saving Drafts

- Publishing Ads
- Inbox (compose, send, save draft)
- Sponsor listing visibility rules

System-wide Features

- Navbar Search
- Theme switching
- Dashboard navigation
- Footer and common UI components

Reference Source: All functional checks are derived strictly from the uploaded **Bug Report** and **UI test case sheet**.

3. Test Environment

Environment Used

- **Operating System:** Windows 11
- **Browser:** Google Chrome (latest), Microsoft Edge (latest)
- **Application State:** Mostly tested on Local server.
- **Test Data:** Role-based accounts (Admin, Organizer, Sponsor, Student)
- **Network:** Stable broadband internet

Note: **Backend/database testing was not performed**, as black-box testing validates behaviour via the UI only.

4. Black Box functional testing summary:
Authentication

- User Login — **Passed**
- User Signup — **Passed**
- Forgot Password Flow — **Failed** *(OTP error & password visibility earlier issues)*
- Field-level Validation Messages — **Passed**

Navigation & System-Wide

- Navigation Bar Search results— **Passed**
- Home Page Buttons (Dashboard, Cards) — **Passed**
- Theme Switching — **Passed**
- Back Button Navigation — **Failed**
- Dashboard Quick Navigation Button — **Passed**
- Map viewing in event details page not working - **Failed**

Admin

- Admin Sidebar Navigation — **Passed**
- Admin Panels Functional Access — **Passed**

- All the admin functionalities are working – **passed**

Organizer

- Create Event — **Failed** *(due to map, date, draft issues)*
- Create Team — **Passed**
- Event Draft Editing — **Failed**
- Event Date Handling — **Failed** *(future events shown live)*
- Map Annotation (Set Location, Save, Delete) — **Failed**
- Edit Configuration — **Failed**
- Team Dropdown Filtering — **Failed**
- Event Description Display — **Passed**
- RuleBook upload – **passed**
- Rule book viewing in organiser – **failed**

Student

- Student Event Registration — **Failed**
- Student Signup Validation — **Passed**
- Student team creation **– Passed**
- Student team invite **– Passed**
- Student inbox notification **- Passed**

Sponsor

- Compose & Send Email — **Passed**
- Save Draft Email — **Passed**
- Sponsor Admin Panel Uploads — **passed**
- Links are not working - **failed**
- Draft Ad Handling — **Failed**
- Ad Preview Behaviour — **Failed**