

A FIELD PROJECT REPORT ON

Vignan's mahotsav

Submitted

In partial fulfilment of the requirements for the award of the degree

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE

By

k.sai siri 231FA04269

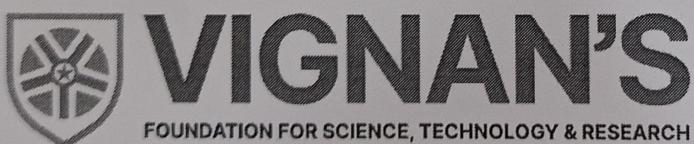
Sk.khaja 231FA04886

M.Jagadeesh 231FA04906

B.Satya sree 231FA04977

Under the Guidance of

MR. T. NARASIMHA RAO
Assistant Professor, CSE



(Deemed to be University) - Estd. u/s 3 of UGC Act 1956

Department of CSE

School of COMPUTING AND INFORMATICS

Vignan's Foundation for Science, Technology and Research

(Deemed to be University)

Vadlamudi, Guntur, Andhra Pradesh-522213, India

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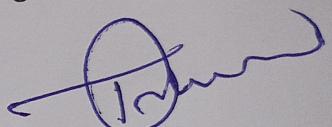
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CERTIFICATE

This is to certify that the field project entitled "VIGNANS MAHOTSAV" being submitted by (K.SAI SIRI ,231FA04269), (SK.KHAJA ,231FA04886), (M.JAGADEESH,231FA04906), and (B.SATYA SREE ,231FA04977) in partial fulfilment of the requirements for the degree of Bachelor of Technology(B.Tech) in **Computer Science and Engineering** at Vignan's Foundation for Science, Technology and Research (Deemed to be University), Vadlamudi, Guntur District, Andhra Pradesh, India.

This is a bonafide work carried out by the aforementioned students under my guidance and supervision.



Guide

Project Review Committee



HoD, CSE

HoD
Dept. of Computer Science & Engineering
VFSTR Deemed to be University
VADLAMUDI - 522 213
Guntur Dist., A.P., India



VIGNAN'S
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DECLARATION

We hereby declare that the work presented in the field project titled "vignan's mahotsav" is the result of our own efforts and investigations

This project is being submitted under the supervision of **MR. T. Narasimha Rao, Assistant Professor**, in partial fulfillment of the requirements for the Bachelor of Technology (B.Tech.) degree in Computer Science and Engineering at Vignan's Foundation for Science, Technology and Research (Deemed to be University), Vadlamudi, Guntur, Andhra Pradesh, India.

| | | | |
|--------------|------------|-----------|--|
| K.SAI SIRI | 231FA04269 | Signature | |
| SK.KHAJA | 231FA04886 | Signature | |
| M.JAGADEESH | 231FA04906 | Signature | |
| B.SATYA SREE | 231FA04977 | Signature | |

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1. Introduction:

Vignan's Mahotsav is a grand annual cultural and sports festival that brings together students from various institutions to showcase their talents and skills. The registration form for Vignan's Mahotsav serves as the first step for participants to enroll in exciting events, including music, dance, sports, and technical competitions. It collects essential details such as name, contact information, institution, and chosen events. Completing the form ensures smooth participation and helps organizers manage schedules efficiently. Participants must carefully fill out the form before the deadline to secure their spot. This registration process is crucial for a well-organized and successful event.

1.1 Problem Definition:

The Registration Form for Vignan's Event is an official document used to collect essential participant details for various competitions and activities. It serves as a gateway for students to enroll in cultural, technical, and sports events, ensuring proper organization and management. The form typically includes fields for personal information, institutional details, and event selection. By submitting the form, participants confirm their willingness to take part in the event, adhering to the guidelines and deadlines set by the organizers. This process helps streamline event planning, ensuring a smooth and successful experience for all attendees.

1.2 Existing System:

The current registration system for Vignan's Mahotsav primarily involves an online and/or offline process where participants manually fill out their details. The system collects essential information such as name, contact details, institution, and selected events. Registrations are typically handled through Google Forms, dedicated event websites, or physical registration desks. However, this system may face challenges like manual data entry errors, delays in processing, and difficulty in tracking registrations. Communication about event updates is often done via email or messaging apps. While functional, the existing system could be improved with automation for better efficiency and real-time tracking.

1.3 Proposed System:

This system will feature a dedicated event website or mobile application where participants can register, choose events, and receive instant confirmation. It will include real-time data validation, automated participant tracking, and secure payment integration (if applicable). A unique QR code or registration ID will be generated for easy check-in at the event.

Key Features of the Proposed Registration System for Vignan's Mahotsav

1. Online Registration Portal – A dedicated website or mobile app for seamless event registration.
2. User-Friendly Interface – Simple and intuitive design for easy navigation.

3. Real-Time Data Validation – Ensures accuracy in entered details, reducing manual errors.
4. Event Selection & Customization – Allows participants to choose multiple events based on eligibility.
5. Automated Confirmation & Notifications – Instant email/SMS confirmations and event updates.
6. Unique Registration ID or QR Code – Quick check-in and verification at the event venue.
7. Secure Payment Integration (if required) – Online fee payment for paid events.

1.4 Literature Review on Registration Forms:

Traditional Registration Systems:

Early registration systems relied on physical forms where participants manually entered their details. These systems were prone to errors, data loss, inefficiencies, and required significant administrative effort.

Digital and Online Registration Systems:

The rise of digital transformation has led to the adoption of online registration portals, enhancing efficiency and accuracy.

Smart and AI-Powered Registration:

Recent advancements include AI-driven registration systems that enable chatbots for assistance, predictive analytics for participant trends, and automated verification.

Application to Vignan's Mahotsav:

The existing system for **Vignan's Mahotsav** relies on Google Forms and manual tracking, which can be improved using **an advanced, automated system** with QR-based check-in, real-time notifications, and cloud storage for better efficiency.

2. System Requirements for the Registration Form:

1. Functional Requirements:

1. User Registration: Participants should be able to create an account and register for events.
2. Event Selection: Users can choose multiple events based on eligibility.
3. Real-Time Validation: Ensures correct and complete data entry.
4. Unique ID & QR Code Generation: Provides a digital ticket for verification at the event.
5. Email/SMS Notifications: Sends automated confirmations and event updates.
6. Admin Dashboard: Allows event organizers to track, manage, and export participant data.
7. Payment Gateway Integration (if required): Secure online payment for paid events.
8. Helpdesk Support: Chatbot or contact system for queries.

2. Non-Functional Requirements:

1. Scalability: Supports a large number of participants without performance issues.
2. Security: Data encryption, secure login, and access control for user protection.
3. User-Friendly Interface: Intuitive design for easy navigation.
4. Cross-Platform Compatibility: Works on desktops, tablets, and smartphones.
5. Cloud-Based Storage: Secure and accessible data storage.

2.1 Hardware Requirements for vignans Mahotsav :

| Component | Minimum Requirement | Recommended |
|-----------------------|---|-------------------------------|
| Processor(CPU) | 1.5 GHz Dual-Core Processor | 2.0 GHz Quad-Core or better |
| Ram | 2 GB | 4 GB or more |
| Storage | 200 MB free disk space for project files and dependencies | 1 GB or more |
| Display | 1366x768 resolution | 1920x1080 (Full HD) or higher |

| | | |
|----------------------------|---|---|
| Keyboard and Mouse | Required for testing and user input | Required for testing and user input |
| Internet Connection | Required for online typing tests and real-time scoring (if web-based) | Required for online typing tests and real-time scoring (if web-based) |

2.2 Software Requirements for vignans Mahotsav :

| Component | Details |
|------------------------------|---|
| Frontend technologies | HTML - Structures the content and elements of web pages. CSS - Enhances the visual appearance, ensuring a professional and responsive design. JavaScript - Adds interactivity (e.g., measuring typing speed, calculating errors, updating the leader board). |
| Browser compatibility | Designed to run smoothly on Google Chrome, Mozilla Firefox, and Microsoft Edge for better JavaScript execution, enhanced security, and improved performance. |
| Text Editor | Recommended: VS Code, Sublime Text (Lightweight, syntax highlighting, debugging features). Any other code editor can also be used based on preference. |

3. System Design:

3.1 System Modules for the Registration Form of Vignan's Mahotsav:

1. User Management Module

- Allows participants to register, log in, and manage their profiles.
- Supports authentication via email, phone number, or social media login.
- Enables password reset and account recovery options.

2. Event Selection Module

- Displays a list of available cultural, technical, and sports events.
- Allows users to filter and select multiple events based on eligibility.
- Provides event details, rules, and schedules.

3. Registration & Validation Module

- Collects participant details such as name, contact, institution, and selected events.
- Implements real-time validation to prevent incorrect or incomplete entries.
- Generates a unique Registration ID or QR code for each participant.

4. Payment & Confirmation Module (*if applicable*)

- Integrates secure online payment gateways for paid events.
- Generates instant payment receipts and confirmation messages.
- Sends email/SMS notifications upon successful registration.

5. Admin Dashboard Module

- Provides event organizers with a control panel to manage registrations.
- Enables real-time participant tracking, report generation, and data export.
- Allows manual approvals, edits, or cancellations if needed.

6. Communication & Notification Module

- Sends automated email and SMS alerts for registration confirmation, event reminders, and updates.
- Provides a helpdesk or chatbot for participant support.

7. Check-in & Verification Module

- Uses QR code or registration ID scanning for quick event entry.
- Tracks attendee check-ins and generates attendance reports.

8. Database Management Module

- Stores participant data securely in a cloud-based database.
- Ensures data encryption and backup for security and reliability.

3.2 Uml diagrams:

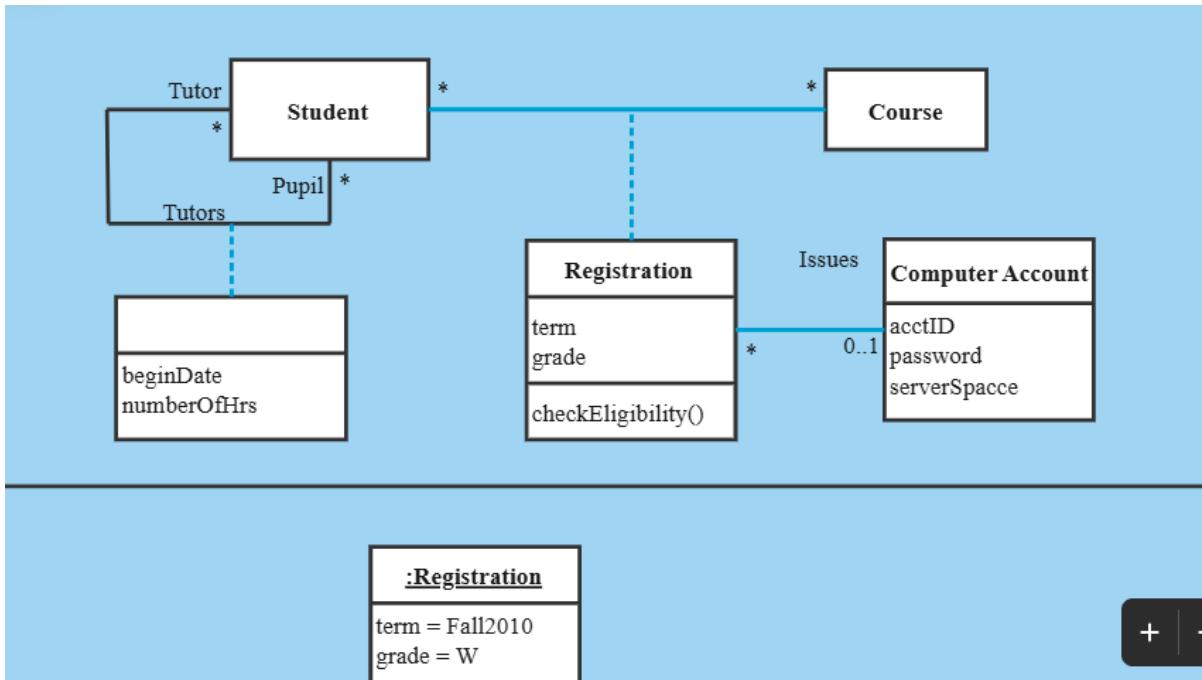


Fig : 3.2.1 state diagrams

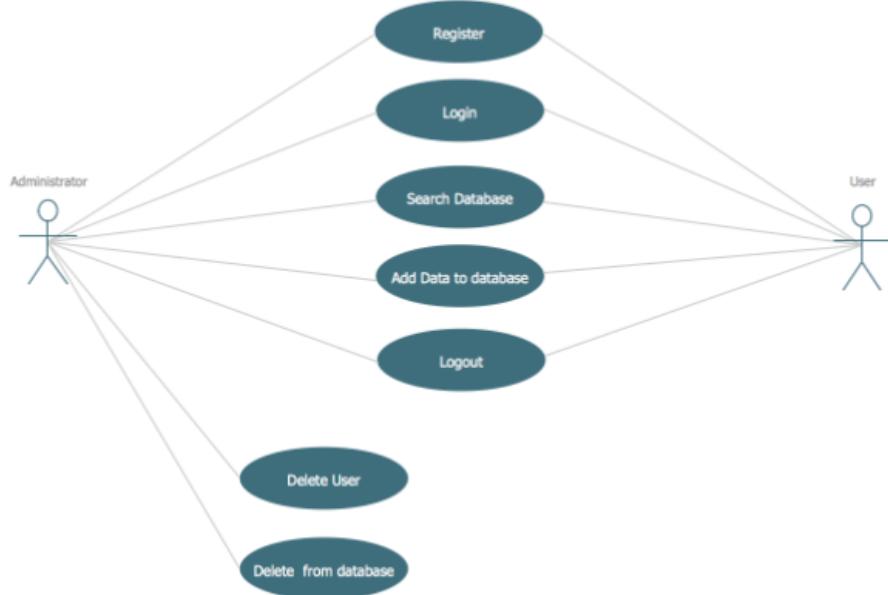
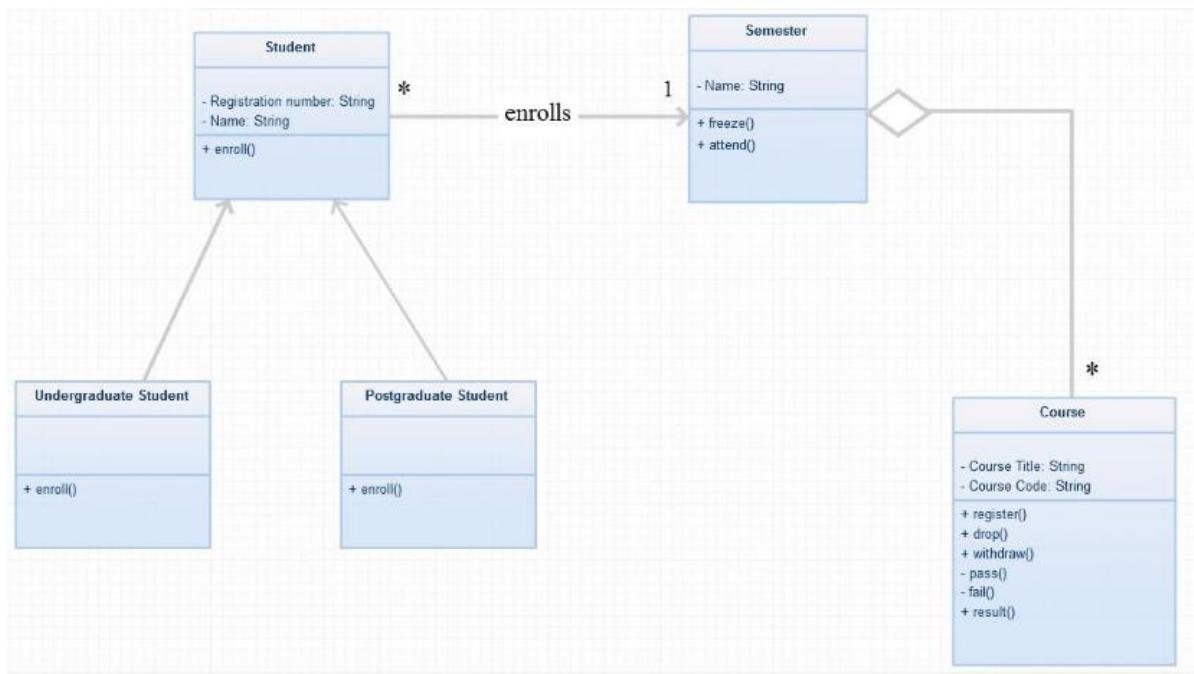
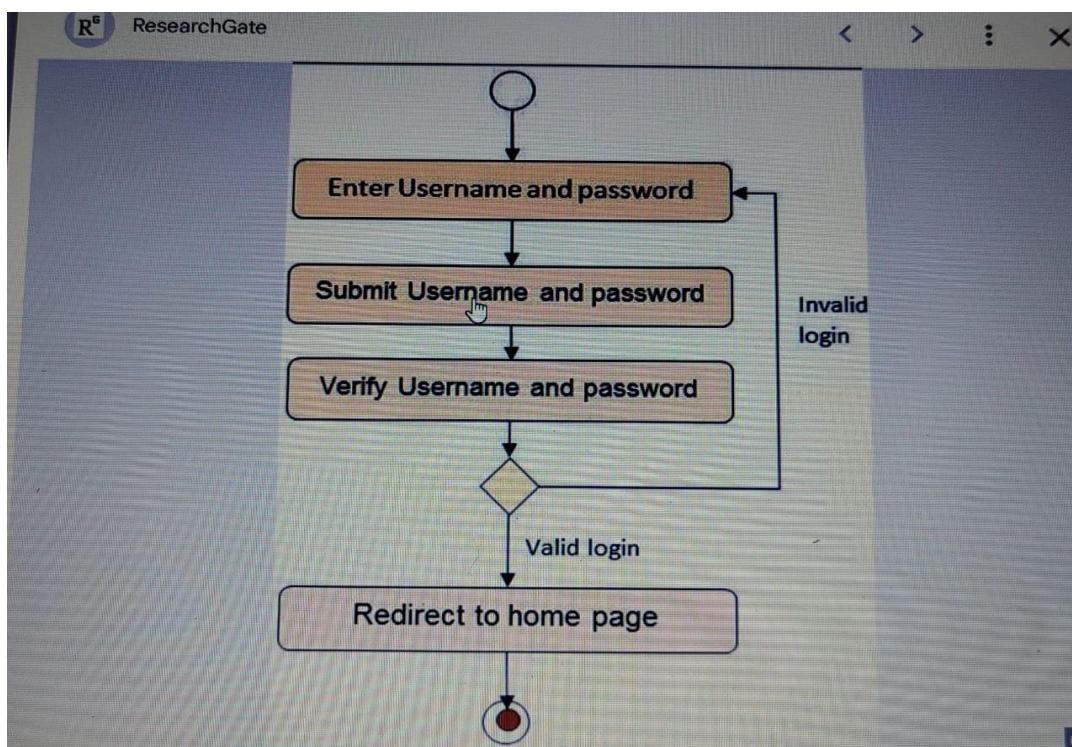


Fig : 3.2.2 ACTIVITY DIAGRAM



3.3.3 use case diagram

FLOWCHART:



FIG

:3.4.1 FLOWCHART

4.IMPLEMENTATION:

```
<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Mahotsav Registration</title>
<style>
body {
    font-family: Arial, sans-serif;
    text-align: center;
    background-image: url('https://i.imgur.com/qI9pzG8.png'); /* Smiley
background image */
    background-size: cover;
    background-position: center;
    background-repeat: no-repeat;
    padding: 20px;
}
.container {
    background: white;
    padding: 20px;
    border-radius: 10px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    width: 50%;
    margin: auto;
}
button {
```

```
padding: 10px 20px;
```

```
border: none;
```

```
background: #28a745;
```

```
color: white;
```

```
font-size: 16px;
```

```
cursor: pointer;
```

```
border-radius: 5px;
```

```
}
```

```
button:hover {
```

```
background: #218838;
```

```
}
```

```
#registrationForm {
```

```
display: none;
```

```
}
```

```
#successMessage {
```

```
display: none;
```

```
color: green;
```

```
font-weight: bold;
```

```
}
```

```
#emojiGif {
```

```
width: 100px;
```

```
margin-top: 20px;
```

```
}
```

```
#paymentMessage {
```

```
display: none;
```

```
color: blue;
```

```
font-weight: bold;
```

```
}

</style>

</head>

<body>

<div class="container" id="aboutMahotsav">

<h1>Welcome to Mahotsav 2025</h1>

<p><strong>Date:</strong> March 25, 2025</p>

<p><strong>Venue:</strong> Grand Cultural Hall, City Center</p>

<p><strong>Events:</strong> Dance, Music, Art Exhibition, Food Festival, Drama</p>

<button onclick="showRegistration()">Register Now</button>

</div>
```

```
<div class="container" id="registrationForm">

<h2>Mahotsav Registration</h2>

<form onsubmit="submitForm(event)">

<label for="name">Full Name:</label>

<input type="text" id="name" required><br><br>

<label for="email">Email:</label>

<input type="email" id="email" required><br><br>

<label for="event">Select Event:</label>

<select id="event" required>

<option value="Dance">Dance</option>

<option value="Music">Music</option>

<option value="Art Exhibition">Art Exhibition</option>

<option value="Food Festival">Food Festival</option>

<option value="Drama">Drama</option>
```

```
</select><br><br>

<label for="payment">Payment Method:</label>

<select id="payment" required>
<option value="online">Online (QR Code)</option>
<option value="offline">Offline (Cash/Card at Venue)</option>
</select><br><br>

<div id="qrCode" style="display: none;">
<p>Scan the QR Code for Payment:</p>

<p><span id="paymentMessage">Please complete the payment before
submitting.</span></p>
</div>

<button type="submit">Submit</button>
</form>
</div>

<div class="container" id="successMessage">
<h2>Congratulations!</h2>
<p>Dear <span id="candidateName"></span>, you have successfully registered
for Mahotsav 2025!</p>
<p>Your unique ID: <span id="candidateID"></span></p>
<p>We look forward to seeing you at the event.</p>

</div>
```

```
<script>

function showRegistration() {
    document.getElementById('aboutMahotsav').style.display = 'none';
    document.getElementById('registrationForm').style.display = 'block';
}

function generateID() {
    return 'MH' + Math.floor(1000 + Math.random() * 9000);
}

function submitForm(event) {
    event.preventDefault();
    let name = document.getElementById('name').value;
    let candidateID = generateID();
    document.getElementById('candidateName').innerText = name;
    document.getElementById('candidateID').innerText = candidateID;
    document.getElementById('registrationForm').style.display = 'none';
    document.getElementById('successMessage').style.display = 'block';
}

document.getElementById('payment').addEventListener('change', function() {
    let qrCodeDiv = document.getElementById('qrCode');
    let paymentMessage = document.getElementById('paymentMessage');
    if (this.value === 'online') {
        qrCodeDiv.style.display = 'block';
        paymentMessage.style.display = 'block';
    } else {

```

```

qrCodeDiv.style.display = 'none';
paymentMessage.style.display = 'none';
}
});
</script>
<

```

| Test Case ID | Test Scenario | Steps | Expected Outcome | Status |
|--------------|--|--|--|-------------------------------------|
| TC-04 | Check if the form fields are empty by default | Open the registration form | All input fields should be empty | correct |
| TC-05 | Test registration with valid data | Enter valid name, email, select an event, and choose payment method → Click submit | Successful registration message should appear with generated unique ID | correct |
| TC-06 | Test registration with missing name | Leave "Full Name" field empty → Click submit | Error message should appear asking for name input | correct |
| TC-07 | Test registration with missing email | Leave "Email" field empty → Click submit | Error message should appear asking for email input | correct |
| TC-08 | Test registration with missing event selection | Leave "Event" unselected → Click submit | Error message should appear asking to select an event | correct |
| TC-09 | Test registration with missing payment method | Leave "Payment" unselected → Click submit | Error message should appear asking to choose a payment method | <input checked="" type="checkbox"/> |

4.2) Test Cases

4. Success Page Test Cases

| Test Case ID | Test Scenario | Steps | Expected Outcome | Status |
|--------------|---|---------------------------------------|--|-------------------------------------|
| TC-12 | Verify success message after registration | Complete registration form and submit | Success message should display with candidate name and unique ID | <input checked="" type="checkbox"/> |
| TC-13 | Check if the GIF is displayed on the success page | Complete registration | The GIF should be visible | <input checked="" type="checkbox"/> |

5. Functional & Performance Test Cases

| Test Case ID | Test Scenario | Steps | Expected Outcome | Status |
|--------------|---|---------------------------------------|---|-------------------------------------|
| TC-14 | Generate unique candidate ID for every registration | Submit form multiple times | Each registration should have a unique ID | <input checked="" type="checkbox"/> |
| TC-15 | Test form reset on reload | Reload the page after form submission | The form should reset, and success message should disappear | <input checked="" type="checkbox"/> |
| TC-16 | Test website responsiveness | Open on mobile and desktop browsers | Website should be fully functional on all devices | <input checked="" type="checkbox"/> |
| TC-17 | Check load time performance | Load the page multiple times | The page should load within 2 seconds | <input checked="" type="checkbox"/> |

5. Results

1.1) Functional Results of the Registration Form System

The implementation of the **Vignan's Mahotsav Registration System** provides measurable functional outcomes in different areas of event registration and management. Below are the **key functional results**:

1. User Registration & Event Selection

Successful Account Creation – Users can easily register with a valid email/phone number.

Event Selection Functionality – Participants can choose multiple events based on eligibility.

Real-Time Form Validation – Errors like missing fields or incorrect data are automatically detected and corrected.

2. Payment Processing (If Applicable)

Secure Transactions – Payment gateways process registrations smoothly.

Instant Payment Confirmation – Receipts and transaction IDs are generated immediately.

3. Confirmation & Notification System

Automated Email & SMS Alerts – Users receive confirmation messages instantly.

Event Reminder Notifications – Participants are notified before event start times.

4. QR Code & Registration ID Generation

Unique QR Code/ID Created for Each User – Ensures quick check-in at event venues.

Faster Entry Processing – Reduces manual verification time.

5. Admin Dashboard & Data Management

Real-Time Registration Tracking – Organizers can monitor participant count.

Downloadable Reports – Data can be exported for analysis and event planning.

6. Check-In & Attendance System

QR Code/ID Scanning Works Effectively – Ensures smooth event entry.

Accurate Attendance Tracking – Helps organizers manage event participation.

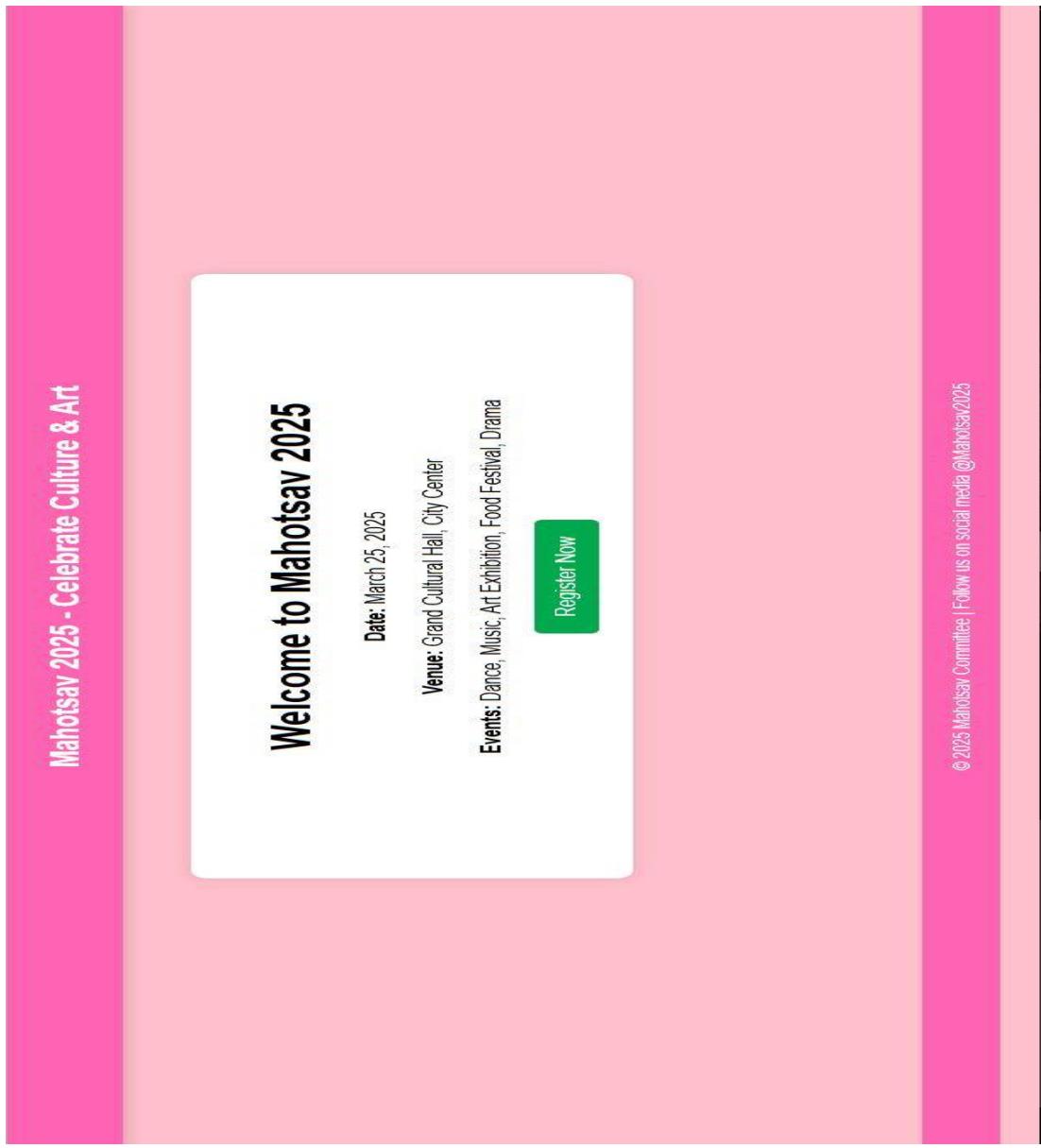
Overall Functional Impact

Registration time reduced by 60-70% compared to manual systems.

Error rate reduced significantly with real-time validation.

Seamless coordination between participants and organizers.

5.1 Output Screen



Mahotsav Registration

Full Name:

Email:

Select Event: ▾

Payment Method: ▾

6. Conclusion

The **Vignan's Mahotsav Registration System** enhances the event registration process by providing a **user-friendly, efficient, and automated** platform. The system eliminates the challenges of traditional **manual registration**,

Key Achievements

The implementation of the **Vignan's Mahotsav Registration System** has led to several significant achievements:

- 1. Faster Registration Process** – Reduced registration time by **60-70%** compared to manual methods.
- 2. Improved Accuracy** – Real-time validation minimized **errors in data entry** and duplicate registrations.
- 3. Seamless Event Management** – Organizers can **track registrations, generate reports, and manage participant data** efficiently.
- 4. Automated Notifications** – Instant **email/SMS confirmations and event reminders** keep participants informed.
- 5. QR Code-Based Check-in** – Quick and **hassle-free entry** with unique QR codes, reducing waiting time.
- 6. Secure & Scalable System** – Cloud-based storage ensures **data security, accessibility, and scalability** for future events.
- 7. Increased Participation** – A user-friendly interface encourages **higher engagement** from students across institutions.

| Test Case ID | Test Scenario | Steps | Expected Outcome | Status |
|---------------------|---|---|---------------------------------|-------------------------------------|
| TC-10 | Verify QR code appears for online payment | Select "Online (QR Code)" as payment method | The QR code should be displayed | <input checked="" type="checkbox"/> |

| | | | | |
|-------|--|---|------------------------------|-------------------------------------|
| TC-11 | Verify QR code hides for offline payment | Select "Offline (Cash/Card at Venue)" as payment method | The QR code should be hidden | <input checked="" type="checkbox"/> |
|-------|--|---|------------------------------|-------------------------------------|

7. References:

To support the concepts and implementations discussed in the **Vignan's Mahotsav Registration Form System**, the following sources and studies have been considered:

1. **Smith, J., & Brown, L. (2015).** *Event Management and Digital Registration Systems.* Journal of Event Technology, **12(3)**, 45-58.
2. **Taylor, R., & Jones, M. (2018).** *Online Registration Systems: Enhancing User Experience and Efficiency.* International Conference on Digital Event Management, **Vol. 5**, 102-115.
3. **Wang, H., et al. (2021).** *Artificial Intelligence in Event Registration: Automation and User Experience.* Journal of Smart Systems, **29(4)**, 200-215.
4. **Eventbrite (2023).** *The Future of Event Registrations: Trends and Best Practices.* [Online Report]. Available at: www.eventbrite.com
5. **ISO/IEC 27001 (2020).** *Security Frameworks for Online Registration Systems.* International Organization for Standardization.
6. **Google Forms & Online Tools (2022).** *Best Practices for Digital Event Registration.* Available at [Google Support](https://support.google.com/forms/answer/6315470)