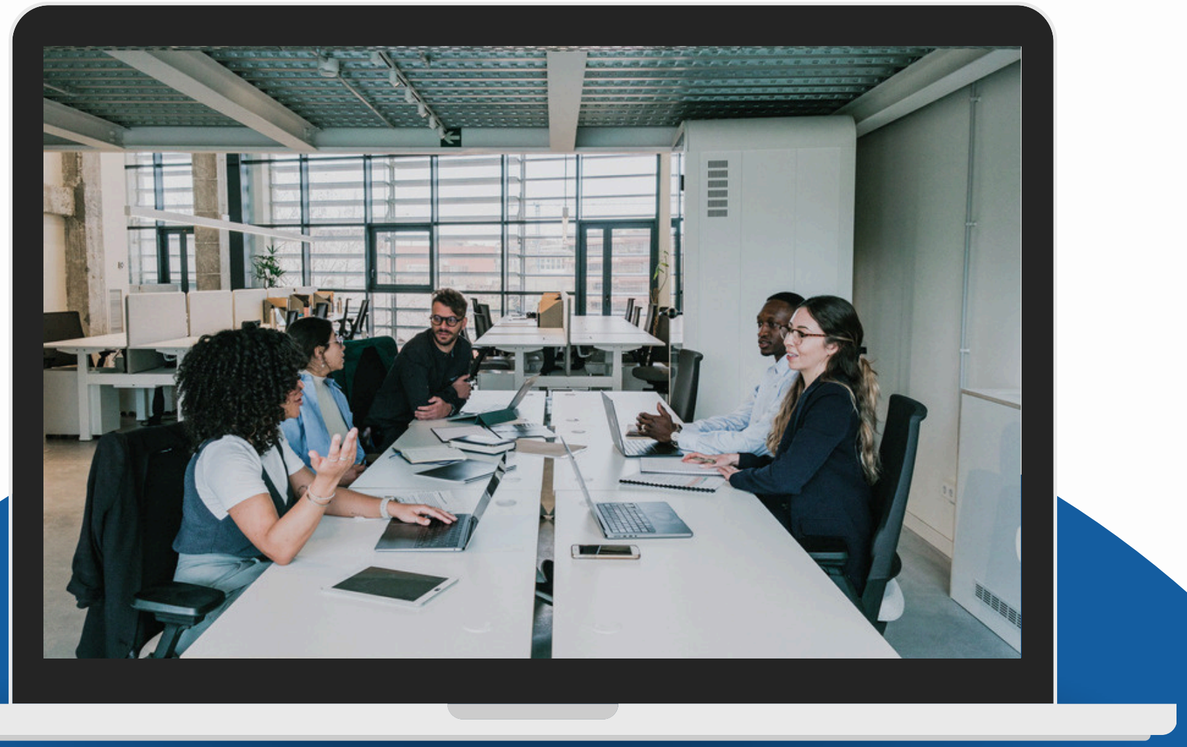
INDUSTRIAL TRAINING



By: Harshit Garg
02113211621
AIML

ELECTRONICS REGIONAL TEST LABORATORY (NORTH)

- Focused on PHP development for back-end systems.
- Aimed at enhancing skills in web application development.
- Real-world application through project work.
- Exposure to MySQL for database management and data manipulation.

Government of India
Ministry of Electronics & Information Technology
STQC Directorate
ELECTRONICS REGIONAL TEST LABORATORY (NORTH)
New Delhi

भारत सरकार
इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी मंत्रालय
एस.टी.क्यू.सी. निदेशालय
इलेक्ट्रॉनिकी क्षेत्रीय परीक्षण प्रयोगशाला (उत्तर)
नई दिल्ली

STQC ||गुणोत्कर्ष समृद्धि:||

<u>To whom so ever it may concern</u>

This is to certify that **Mr. Harshit Garg S/O Mr. Divakar Garg, student of B.Tech. (Artificial Intelligence and Machine Learning), VI Semester** from **Guru Tegh Bahadur Institiute of Technology, IPU, New Delhi** has undergone training on "Software Testing Techniques & Tools" from 04th July 2024 to 16th August 2024 at STQC IT Services, Delhi Centre, Department of Information Technology, Ministry of Communications and Information Technology, Govt. of India.

He was found to be sincere and had shown keen interest during the training.

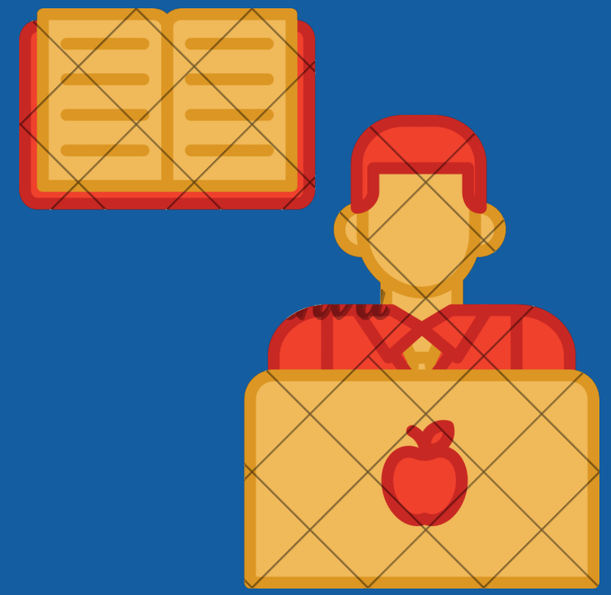
Mr. Md. Danish, Scientist 'C'
STQC IT Services, Delhi Centre

Date: 26/09/2024

CERTIFICATE

TOPICS STUDIED

- PHP Fundamentals: Developed a strong understanding of server-side scripting, covering variables, data types, control structures, functions, and error handling to build dynamic web applications.
- MySQL Database Interaction: Gained practical experience in database management with MySQL, focusing on CRUD operations and designing normalized database schemas for efficient data handling.
- Front-End Integration: Explored the use of HTML, CSS, and JavaScript to create user-friendly interfaces, emphasizing responsive design and seamless interaction with back-end systems.
- Web Application Deployment: Learned the basics of deploying applications on servers, including server configuration, security practices, and version management for effective updates.



EVENT MANAGEMENT SYSTEM

Developed an **Event Management System** designed to enhance the efficiency of event registrations for the GTBIT Fest. This system addresses the complexities associated with traditional manual registration processes by incorporating automation and streamlined workflows.

PROBLEM STATEMENT

FIRST PROBLEM: Difficulty in managing event registrations manually, leading to errors.

SECOND PROBLEM : Lack of real-time updates and automated confirmation processes for participants.

THIRD PROBLEM: Limited visibility into participant data and event capacity, making it challenging for organizers to track registrations and manage attendance effectively.

OBJECTIVES

Objective 01

Create a user-friendly system for easy event registration and management.

Objective 02

Automate email confirmations for registered users to enhance communication.

Objective 03

Enable real-time updates for event organizers and participants.

METHODOLOGY

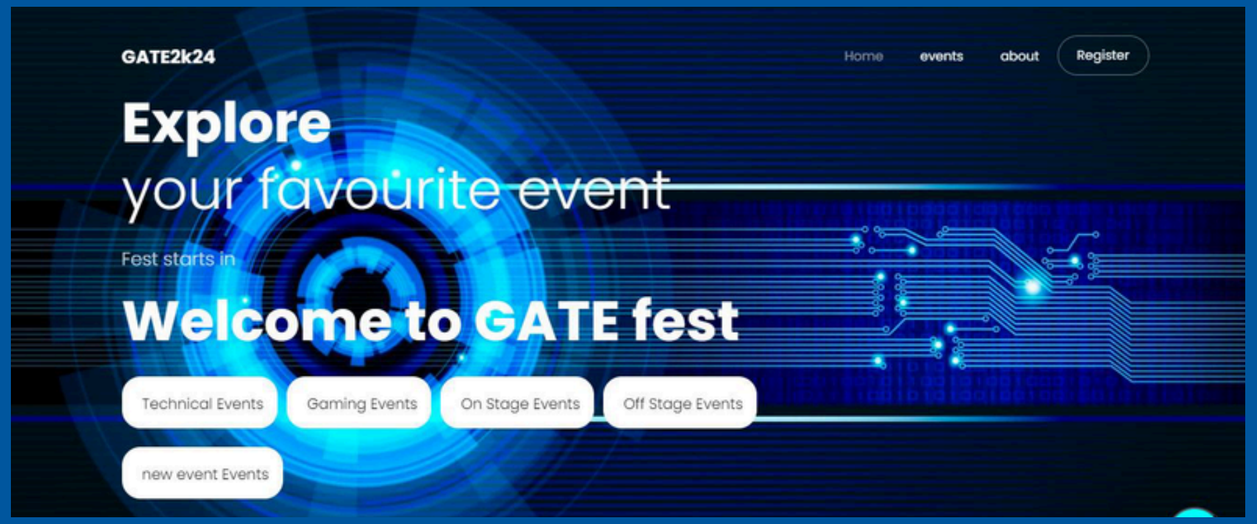
01 User Inputs Event Details: Information about the event is collected via a form.

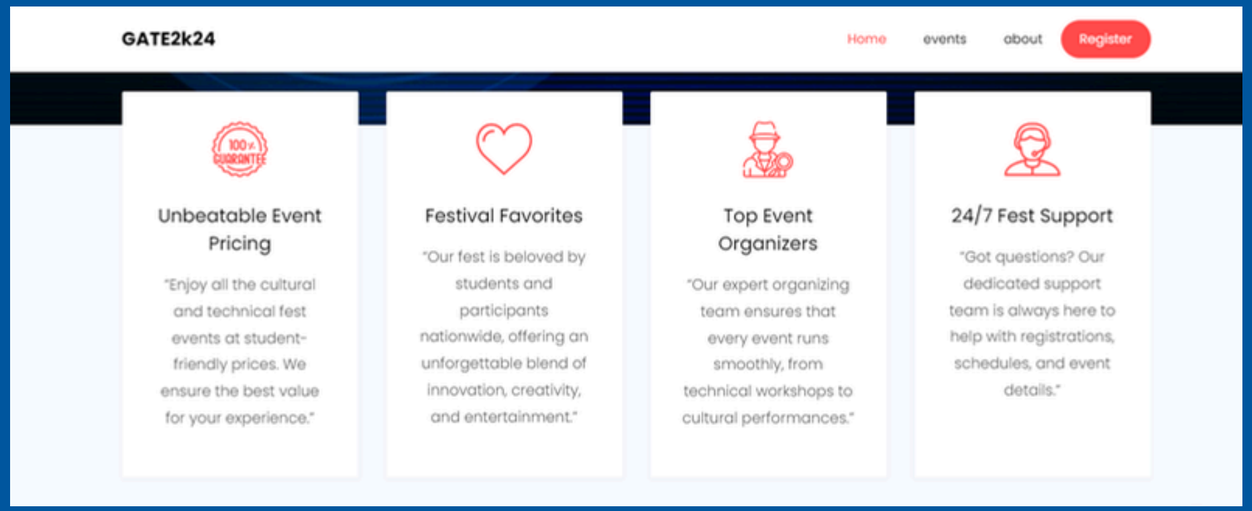
02 PHP Processes Input Data: Data is validated and processed by PHP scripts

03 Data Stored in MySQL Database: Successful entries are stored for future reference.

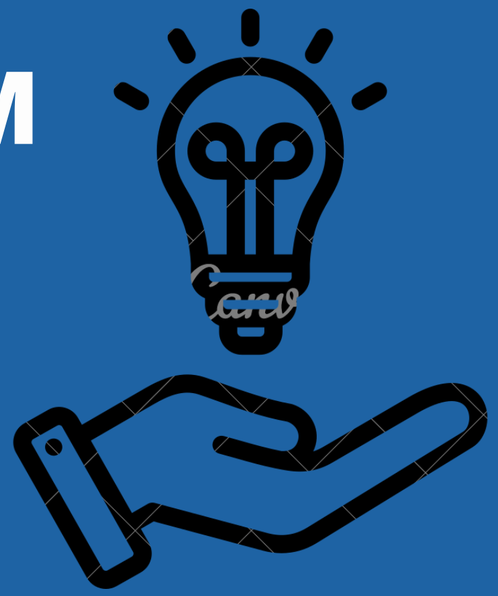
04 Confirmation Email Sent: Users receive automated emails confirming their registrations.

OUTPUT


GATE2k24
Home
events
about
Register
Explore
your favourite event
Fest starts in
Welcome to GATE fest
Technical Events
Gaming Events
On Stage Events
Off Stage Events
new event Events


GATE2k24
Home
events
about
Register
Unbeatable Event Pricing
"Enjoy all the cultural and technical fest events at student-friendly prices. We ensure the best value for your experience."
Festival Favorites
"Our fest is beloved by students and participants nationwide, offering an unforgettable blend of innovation, creativity, and entertainment."
Top Event Organizers
"Our expert organizing team ensures that every event runs smoothly, from technical workshops to cultural performances."
24/7 Fest Support
"Got questions? Our dedicated support team is always here to help with registrations, schedules, and event details."

HOW THE SOLUTION SOLVES PROBLEM

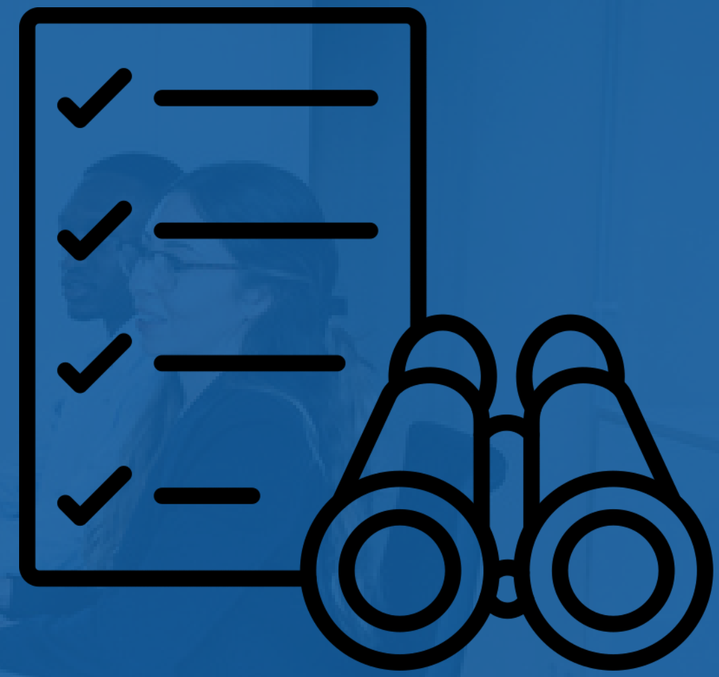


Before:
Manual registration caused delays, frequent data entry errors, and difficulty in tracking event capacity.

After:
Automated system reduces workload, ensures accurate data, provides real-time updates, and enhances user experience with instant confirmations.

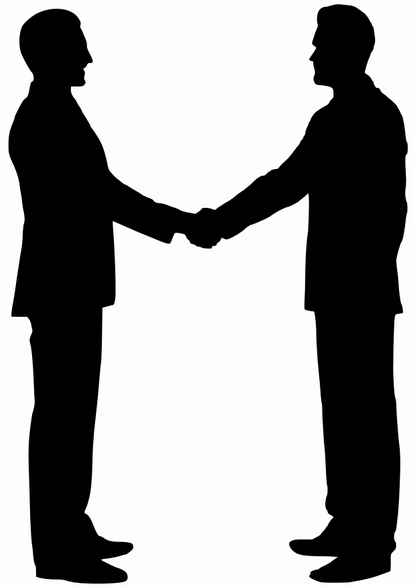
FUTURE SCOPE

1. Implement event reminders for participants via email or SMS to improve engagement and reduce no-shows.
2. Enhance user interface for a more intuitive and seamless user experience, making it easier for participants to navigate the system.
3. Integrate payment gateways for online ticketing, allowing users to register and pay for events directly through the platform.
4. Introduce event analytics to track participant behavior and event performance, providing valuable insights for organizers.



CONCLUSION

- **Improved Efficiency: Streamlined the overall event management process, reducing time and effort required for registrations.**
- **Automated Processes: Automated user registration and confirmation emails, making the system faster and more reliable.**
- **Reduced Manual Work: Minimized manual data entry tasks, lowering the chance of errors and improving accuracy.**
- **Enhanced Communication: Automated email notifications ensured timely updates to participants, improving event communication.**



THANK YOU!