

# A. Y. Dadabhai Technical Institute, Kosamba

## Report

ON

## Expert Lecture on MERN DEVELOPMENT

15<sup>th</sup> March 2024

By Techomax Solutions, bharuch



Organized by

Computer Department



AT



**A. Y. Dadabhai Technical Institute, Kosamba**  
Mahuvej Road, At & Po. Kosamba (R.S),  
Dist: Surat

**DATE: 15/03/2024**

## **MERN Stack Development**

A.Y. Dadabhai Technical Institute, Kosamba aims to cater the society with skilled manpower and efficient team members. Institute believes in total improvement of each student. Since 2009 Computer Department of A.Y. Dadabhai Technical Institute has served many scholar students to the society. Today's Era is Computer and Internet Era.

Hence, we at Computer Department planned the Expert Lecture on MERN Stack Development for 6th Semester students on 15<sup>TH</sup> March 2023. We invited Mr. Himanshu Prajapati from Techomax Solution, Surat to deliver the Useful Information about the MERN Development.

The purpose of this Expert lecture was to provide knowledge about MERN Stack Development. Mr. Himanshu Prajapati started the lecture with the concept of MERN Development. He made the students to understand about the basic of MERN, history, various tools, application, real time examples, and future of the MERN technology.

### **Introduction:**

On 15 March, 2024, a specialized lecture on MERN (MongoDB, Express.js, React.js, Node.js) development was organized at A Y Dadabhai Technical Institute, The lecture aimed to provide insights into the MERN stack, its applications, and practical implementations in the field of web development. The session was conducted by Mr. Himanshu Prajapati, a developer and founder of Techomax Solutions, renowned for their expertise in web development technologies.

### **Objective:**

The primary objective of the lecture was to enhance the understanding of MERN stack development among faculty members and students. The session aimed to cover fundamental concepts, best practices, and real-world applications of MERN technologies.

### **Summary of the Lecture:**

The lecture commenced with an overview of the MERN stack, highlighting the significance of each component - MongoDB, Express.js, React.js, and Node.js. The speaker delved into the core functionalities of MongoDB as a NoSQL database, emphasizing its flexibility and scalability in handling unstructured data.

Subsequently, the discussion shifted towards Express.js, elucidating its role as a minimalist web application framework for Node.js. The speaker navigated through the key features of Express.js, such as routing, middleware integration, and handling HTTP requests.

The lecture then transitioned to React.js, focusing on its component-based architecture and

declarative nature. The speaker demonstrated the process of building interactive user interfaces using React.js, emphasizing concepts like state management, virtual DOM, and component lifecycle.

Lastly, the session delved into Node.js, elucidating its event-driven architecture and non-blocking I/O operations. The speaker showcased the versatility of Node.js in building scalable and high-performance server-side applications, along with its integration with Express.js for backend development.

Throughout the lecture, the speaker incorporated practical examples and case studies to illustrate the application of MERN stack in real-world scenarios. Attendees were encouraged to actively participate in discussions and ask questions, fostering an interactive learning environment.

**Key Takeaways:**

- *Comprehensive understanding of the MERN stack and its individual components.*
- *Insight into the advantages and use cases of MongoDB, Express.js, React.js, and Node.js.*
- *Practical knowledge of building web applications using MERN technologies.*
- *Awareness of best practices and industry trends in MERN development.*

**Conclusion:**

The expert lecture on MERN Stack development by Techomax Solutions proved to be highly informative and beneficial for faculty members and students alike. It provided a comprehensive overview of the MERN stack, empowering attendees with practical insights and skills essential for modern web development practices. The session concluded with a vote of thanks to the speaker from Techomax Solutions for sharing valuable knowledge and expertise.

Overall, the purpose for organizing this Expert Lecture is fulfilled completely. Student had cherished this experience and also showed their interest to attend further workshops in their curriculum. As per the feedback received from the participants it was very good learning experience, the lecture helped them in their understanding the MERN Stack Development.



