



B.S. Abdur Rahman®

Crescent

Institute of Science & Technology

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Department of Computer Applications

REPORT ON WEBINAR

CRUD Development with Node.js

Organized By

Department of Computer Applications

School of Computer, Information and Mathematical Sciences

Crescent Institute of Science & Technology, Chennai.

Date and Time

Date: 24th April 2026

Time: 6:30 PM to 8:00 PM

Mode: Online

Introduction

The Department of Computer Applications, School of Computer, Information and Mathematical Sciences, Crescent Institute of Science & Technology, organized a webinar on “**CRUD Development with Node.js**” on 24th April 2026. The session was conducted in online mode with the objective of enhancing students’ knowledge and practical understanding of modern data visualization tools.

Resource Person

The webinar was facilitated by Mr. J. Saravanakumar, Director of Futuro Focus, who served as the distinguished resource person. Leveraging his extensive industry expertise, he provided valuable insights into CRUD (Create, Read, Update, Delete) development using Node.js, highlighting practical approaches for managing and manipulating data effectively within modern web applications.

Objectives of the Webinar

- To introduce the fundamentals of CRUD operations.
- To demonstrate CRUD implementation using Node.js.
- To explain integration of Node.js with MongoDB.
- To provide practical exposure to data management.
- To highlight industry best practices for scalable applications.

Session Highlights

The session began with an introduction to the significance of the **MERN stack** in modern web application development and its role in building scalable, full-stack applications.

Key Components Explained:

- **MongoDB** A NoSQL database that stores data in flexible, JSON-like documents, serving as the backend database for MERN applications.
- **ExpressJS** A lightweight, JavaScript-based backend framework used to build APIs and manage server-side logic for MERN applications.
- **React** A powerful JavaScript library for creating dynamic and interactive user interfaces. Features such as the Virtual DOM make React efficient and unique among front-end libraries.
- **NodeJS** A JavaScript runtime environment that enables the execution of JavaScript code outside the browser, allowing developers to build scalable backend services and network applications.

Practical Demonstration

The speaker showcased how these technologies integrate seamlessly to form the MERN stack, highlighting real-time examples and case studies to help students understand practical applications in industry.

Faculty Coordinators and Organizing Team

Guidance

- Dr. Sharmila Sankar, Dean of SCIMS
- Dr. M. Syed Masood, Head of Department, Computer Applications

Co-Convenors

- Dr. A. Jaya
- Dr. S. Pakkir Mohideen
- Dr. I. Sathik Ali
- Dr. S. Shahar Banu

Coordinators

- Dr. K.Hazeena, AP/CA
- Dr.KMN. Syed Ali Fathima/AP/CA

The coordinators ensured the smooth conduct of the webinar.

Participants

The target audience for the webinar included:

- IMCA 'A' & 'B' Students

Seventy-Six students actively participated and benefited from the session. The interactive nature of the webinar enabled participants to clarify their doubts and gain hands-on insights into implementing CRUD operations using Node.js.

Conclusion

The webinar was highly informative and beneficial for students, as it enhanced their technical skills and provided exposure to industry-relevant practices in web application development. The session successfully achieved its objective of bridging the gap between academic learning and practical application by demonstrating how CRUD (Create, Read, Update, Delete) operations can be implemented using Node.js and integrated with MongoDB for efficient data management.


In the name of Allah the most beneficent and merciful

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SCHOOL OF COMPUTER, INFORMATION AND MATHEMATICAL SCIENCES
DEPARTMENT OF COMPUTER APPLICATIONS
ORGANIZES

CRUD DEVELOPMENT WITH NODE.JS

DATE : 24.04.2026 | TIME : 06:30 PM - 08:00 PM | ONLINE MODE



Mr. J. Saravanakumar
Director, Futuro Focus.
RESOURCE PERSON

CONVENORS

- Dr. Sharmila Sankar, Dean / SCIMS
- Dr. M.Syed Masood, HoD / CA

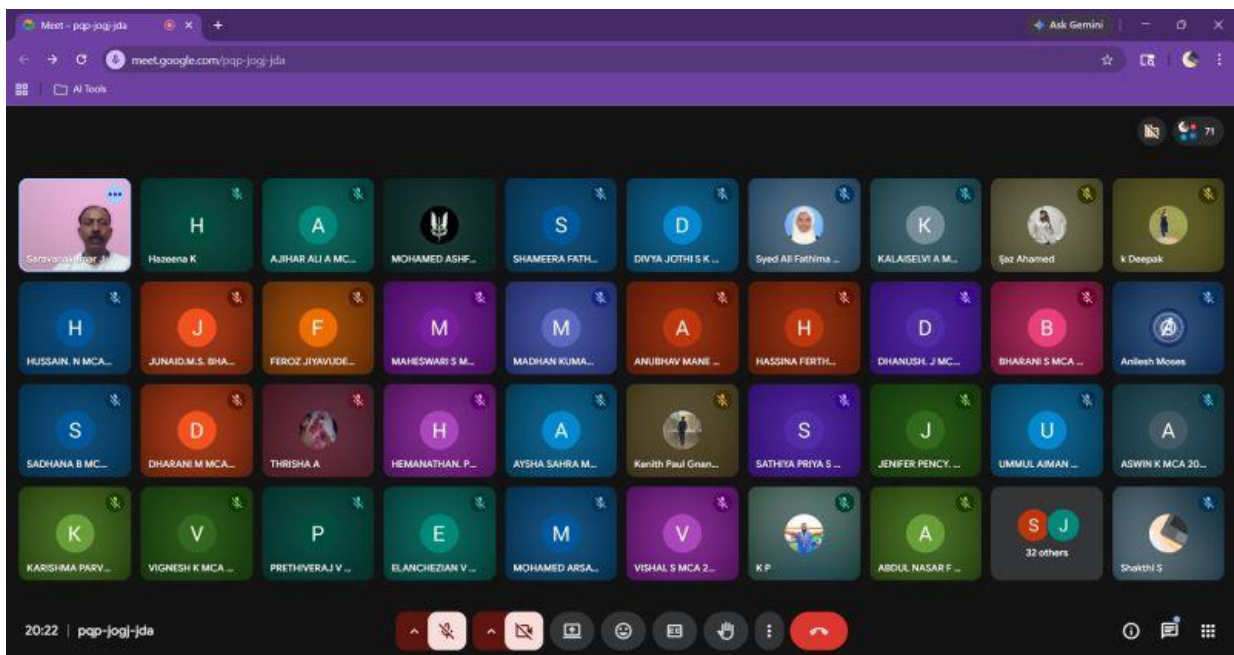

COORDINATORS

- Dr. K.Hazeena, AP
- Dr. KMN.Syed Ali Fathima, AP

CO-CONVENORS

- Dr. A.Jaya, Professor & Director (CDOE)
- Dr.S.Pakkr Mohideen, Professor
- Dr. I.Sathik Ali, Professor
- Dr. S.Shahar Banu, Associate Professor

TARGET AUDIENCE : I MCA 'A' & 'B'



Saravankumar J (Presenting, annotating)

CRUD App using MERN • Saved to this PC

File Home Insert Draw Design Layout References Mailings Review View Help Acrobat

Stack Layer Breakdown

React.js — Frontend

- Renders the user interface (forms, lists, buttons)
- Manages component state with `useState` and `useEffect` hooks
- Sends HTTP requests using `Axios` or the native `Fetch` API
- Receives and renders JSON responses from the backend

Express.js — Routing & Middleware

- Defines API routes (e.g., `GET /api/items`, `POST /api/items`)
- Parses incoming request bodies via `express.json()` middleware
- Calls the appropriate controller function based on route and method

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18:48 | pqp-jogj-jda

Meet - pqp-jogj-jda

meet.google.com/pqp-jogj-jda

Saravankumar J (Presenting, annotating)

crud operation

```

back-end > JS indexjs > ...
31 // PUKI
32 const port = 4000;
33 const server = app.listen(port, () => {
34   console.log("Connected to port " + port);
35 });
36
37 // 404 Error
38 app.use((req, res, next) => {
39   next(createError(404));
40 });
41
42 app.use(function (err, req, res, next) {
43   console.error(err.message);
44   if (!err.statusCode) err.statusCode = 500;
45   res.status(err.statusCode).send(err.message);

```

Ln 35, Col 4 | Spaces: 4 | UTF-8 | CRLF | JavaScript

19:46 | pqp-jogj-jda

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