



Department of Computer Science & Engineering

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Report on 2-Days Workshop “Full Stack Development for Industry”

The two-day workshop on “Full Stack Development for Industry” was organized for the 6th semester CSE-Students by the Department of Computer Science & Engineering, ATMECE, Mysuru, held on **28th & 29th June 2024** at 401 Seminar hall, ATMECE campus. The workshop aimed to equip participants with comprehensive knowledge and practical skills required for modern web development, covering both front-end and back-end technologies and to make the students industry ready.



Workshop Inauguration

Day 1: Understanding Front-End Development

The first day focused on front-end development, where participants learned:

- Basics of HTML, CSS, and JavaScript
- Responsive web design principles
- Introduction to popular front-end frameworks
- Hands-on exercises to create interactive web interfaces



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Sessions Activity:

- **Session - 1:** Introduction to HTML and CSS, hands-on coding exercises.
- **Session - 2:** JavaScript fundamentals, DOM manipulation, and introduction to frameworks.



Resource Person addressing the students during the sessions



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Key Takeaways from Day-1: Participants gained proficiency in building responsive, visually appealing web pages using HTML, CSS, and JavaScript. They also explored the role of frameworks in accelerating front-end development.

Day 2: Exploring Back-End Development

The second day delved into back-end development concepts and technologies:

- Overview of server-side programming languages.
- Database fundamentals and relational database management with SQL
- Building RESTful APIs and integrating front-end with back-end

Sessions Activity:

- **Session - 3:** Introduction to Node.js and Express framework, hands-on API development.
- **Session - 4:** Database integration with SQLite deploying a sample application on a cloud platform.

Key Takeaways from Day-2: Participants learned how to develop robust back-end systems using Node.js and Express, create and manage databases, and deploy applications in real-world environments. They also gained insights into the importance of security and scalability in web applications.



Students feedback on the workshop

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Valedictory: CSE department HOD honouring the Resource Person

Conclusion: The workshop on Full Stack Development for Industry as provided participants with a holistic understanding of web development, from front-end design to back-end implementation and deployment. Through hands-on activities and expert-led sessions, attendees acquired practical skills and knowledge essential for building modern web applications.

Feedback: Feedback from participants was overwhelmingly positive, highlighting the workshop's relevance, interactive sessions, and the expertise of the instructors. Participants expressed a desire for more advanced workshops focusing on specific frameworks and advanced deployment strategies.

Future Plans: In response to the feedback received, we plan to organize more workshops on specific technologies like React.js, Angular, and Docker, catering to the growing demand for specialized skills in Full Stack Development.

This workshop successfully empowered participants with essential skills and knowledge, paving the way for their journey into Full Stack Development.

Coordinator
Hamsa A S

HOD