

Workshop Title: FULL STACK

About the Workshop:

The Full Stack Development Workshop, led by a dynamic team of nine mentors, promises an immersive learning experience across multiple facets of web development. Beginning with an overarching introduction, each mentor specializes in a crucial aspect of the full stack journey. From frontend essentials such as HTML, CSS, and JavaScript to the intricacies of React.js, participants will build a strong foundation for creating interactive user interfaces. In the backend segment, Node.js and Express.js will be explored for server-side programming, complemented by insights into database management and integration. Real-world application considerations, deployment strategies, collaboration using version control, and valuable resources for continuous learning will complete the comprehensive curriculum. As mentors guide three distinct batches through this journey, participants can anticipate gaining practical skills in building, deploying, and collaborating on full stack applications, with an eye toward continuous growth in the dynamic realm of web development.

Sessions:

Session 1: Basics of HTML, CSS, and JavaScript (9:30 AM - 11:30 AM):

In the first session, participants immersed themselves in the foundational elements of web development. The mentors provided an in-depth exploration of HTML for structuring web content, CSS for styling and layout, and JavaScript for adding dynamic behaviour to web pages. Through practical examples and hands-on exercises, attendees gained a solid understanding of these core technologies, setting the stage for building dynamic and visually appealing user

interfaces.



Break (11:30 AM - 12:00 PM)

Session 2: Development Environment Setup (12:00 PM - 1:00 PM):

The second session centred around practical aspects of development as participants ventured into setting up their development environments. From the installation of Visual Studio Code, a powerful and versatile code editor, to the basics of version control with Git, mentors guided participants through the steps to create a GitHub account for collaborative coding. This session aimed to empower attendees with the tools and practices necessary for effective and collaborative software development.



Lunch Break (1:00 PM - 2:00 PM)

Session 3: Introduction to Express.js and React.js (2:00 PM - 4:00 PM):

The third and final session shifted the focus to backend and frontend frameworks, specifically Express.js and React.js. In the backend segment, participants delved into server-side programming with Express.js, exploring its capabilities in building robust server applications. Simultaneously, the mentors introduced React.js, a powerful frontend library, guiding participants through the creation of dynamic and interactive user interfaces. This hands-on session allowed participants to integrate their frontend and backend knowledge, providing a holistic understanding of full stack development.

Conclusion:

As the Full Stack Development Workshop draws to a close, we reflect on the journey undertaken by our dedicated participants. Throughout the workshop, our aspiring developers have gained a profound awareness of the foundational concepts essential for full stack development. From mastering HTML, CSS, and JavaScript to setting up a collaborative development environment using tools like Visual Studio Code and Git, each session has contributed to a comprehensive skill set.

The enthusiasm and engagement of the students have been truly inspiring. They have not only absorbed the technical intricacies but have also demonstrated a readiness to embark on the journey of building creative and dynamic websites. Armed with a newfound understanding of Express.js for backend development and React.js for frontend interactivity, our participants are now equipped to bring their ideas to life in the digital realm.

We commend the students for their active participation, inquisitive minds, and collaborative spirit throughout the workshop. As they leave with a toolkit of skills and knowledge, we encourage them to continue exploring, experimenting, and contributing to the vibrant field of full stack development. Remember, this is just the beginning of a journey filled with endless possibilities, and we are confident that each participant is well-prepared to make a mark as a future innovator in the world of web development.

A heartfelt thank you to all the participants for making this workshop a resounding success. We look forward to witnessing the remarkable websites and applications that will undoubtedly emerge from the creative minds of our talented developers. We would like to thank all the mentors for their immense and unwavering support for making this workshop fruitful.

☐The following students of 7th semester (mentors) for the workshop held on 6th December.

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