



NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

REPORT on HANDS-ON WORKSHOP

DEPARTMENT OF MCA

(8th December 2025)

Topic: Workshop on Building a minimal APIs using .NET

Date: 8th December 2025

Timing: 09.00 AM-11 AM

Programme Co-ordinator:

Prof. Diksha Dhiman

Assistant Professor,

Department of MCA.

Convenor: Dr. V. Asha,

Professor and Head

Department of MCA

No. of Participants: 41 (III MCA C)

Details of the Resource Persons:

Mr. Tapan Dahal

Associate Software Engineer

Sysfore Technology Pvt Ltd, Bangalore

Profile of the Expert

Tapan Dahal is a committed and growth-oriented Computer Science professional specialising in building reliable, user-centered software solutions. He holds a Master of Computer Applications from New Horizon College of Engineering, Bengaluru, with strong academic performance.

His technical expertise spans Java, C, MySQL, Microsoft SQL Server, Spring Boot, .NET MVC, AngularJS, and cloud platforms such as AWS. He has gained practical industry experience through roles at Tripillar Solutions and Synergy Technologies, where he contributed to developing dynamic web applications, backend services, and real-time project modules using modern development tools including Azure DevOps, Git, and Linux.

Tapan has also worked on impactful academic projects, including a job portal designed for rural and semi-urban youth, demonstrating his ability to apply technology to address real-world challenges. Known for his adaptability, communication skills, and problem-solving ability, he brings a user-focused approach to every solution he builds.

Poster



Organised by
Department of Master of Computer Applications

Objective:

The objective of the session is :

- Introduce the fundamentals of Low-Code/No-Code development, enabling students to understand how rapid application building differs from traditional coding methods.
- Provide hands-on experience with the SKYÉ Low-Code Platform, allowing participants to design, build, and deploy functional web applications using visual components and workflow automation.

- Demonstrate real-time application development, from data modeling to interface creation.
- Encourage innovation through simplified software development, empowering students to convert ideas into working prototypes without extensive programming knowledge.

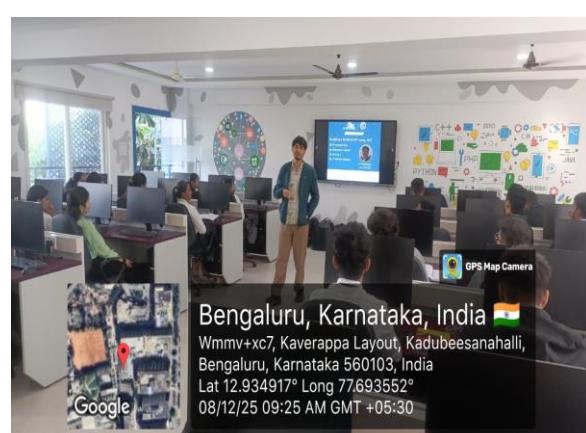
Content

The workshop focused on explaining the fundamentals of Minimal APIs and how they differ from traditional controller-based API development in .NET. Participants were guided through setting up the development environment, creating and configuring endpoints, and understanding the roles of routing, dependency injection, and middleware in a Minimal API structure. The resource person demonstrated how to connect APIs to a database using Entity Framework Core, along with techniques for implementing validation, error handling, and basic security. A complete walkthrough of building a functional Minimal API project was provided, emphasising clean architecture, performance, and deployment considerations.

Summary of Content

The expert provided a comprehensive walkthrough of Minimal APIs, beginning with their purpose and advantages in simplifying API development. Participants learned how to structure applications without controllers, define endpoints efficiently, and integrate essential features like routing, data access, and middleware. Through hands-on demonstrations, the resource person guided attendees in constructing a working API, highlighting real-world scenarios, troubleshooting techniques, and best practices. The session emphasised how Minimal APIs can accelerate development while maintaining code clarity and performance.

Snapshot from the Session



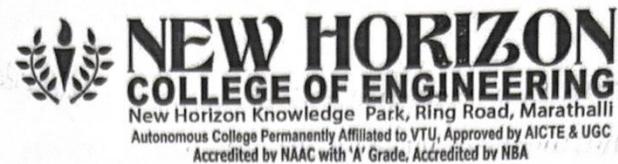
Outcome

By the end of the workshop, participants had developed a solid understanding of how Minimal APIs function within the .NET ecosystem. They became capable of creating and configuring Minimal API endpoints, integrating them with databases through Entity Framework Core, and applying key concepts such as dependency injection, middleware, and structured error handling. The hands-on experience boosted their confidence in building and running API-driven applications using .NET

Overall, the workshop enhanced their technical proficiency and prepared them to apply Minimal API development techniques in real-world projects.

Attendance

List of MCA students attended



DEPARTMENT OF MCA
AY 2025-26
ATTENDANCE SHEET OF PARTICIPANTS
WORKSHOP
BUILDING A MINIMAL API USING .NET

RESOURCE PERSON: Mr. TAPAN DAHAL

ASSOCIATE SDE
SYSFORE TECHNOLOGY Pvt Ltd

DATE: 08-12-2025

TIME: 09:00 am to 11:00 am

PARTICIPANTS: STUDENTS SEM III

VENUE: MCA LAB-1

SERIAL NO	USN NO	NAME	SIGNATURES
01	INH24MC069	Madhushree GR	
02	INH24MC057	Keerthana G.R	
03	INH24MC029	Bhagavati	
04	INH24MC039	Dakshayini Gond	
05	INH24MC019	Anuganti Sandhya	- A. Sandhya ..
06	INH24MC033	Brinda Reddy C	Brinda Reddy C
07	INH24MC020	Arpita Kumar	Arpita
08	INH24MC082	Shanya.m	Shanya.m
09	INH24MC043	Dishe Day	Dishe
10	INH24MC023	Ashwathy	Ashwathy
11	INH24MC005	Divya N. Shwanigiri	Divya N. Shwanigiri

SERIAL NO	USN NO	NAME	SIGNATURES
12	INH24UMC024	R. VANSHITHA	<u>Vanshitha</u>
13	INH24UMC074	MEENAKSHI . J. H	<u>Meena</u>
14	INH24UMC090	Nikitha . P	<u>P</u>
15	INH24UMC059	KARISHMA SINGH	<u>Kirishma Singh</u>
16	INH24UMC085	Nayani . B	<u>Nayani</u>
17	INH24UMC089	Nikhitha G.S	<u>Nikitha</u>
18	INH24UMC97	Peoruvi . D.	<u>Peoruvi</u>
19	INH24UMC047	Gouri Tandel	<u>Tandel</u>
20	INH24UMC007	Aditya Singh	<u>Aditya Singh</u>
21	INH24UMC025	Aayush Anant	<u>Aayush</u>
22	INH24UMC021	Ashish Kumar	<u>Ashish</u>
23	INH24UMC010	Akash Rawat	<u>Akash</u>
24	INH24UMC082	Narendra Singh	<u>N</u>
25	INH24UMC051	Jayath Nair	<u>Jayath</u>
26	INH24UMC004	Achayut	<u>Achayut</u>
27	INH24UMC036	C. Jayant	<u>C. Jayant</u>
28	INH24UMC045	Dishabhush Path	<u>Path</u>
29	INH24UMC015	Amruth Kumar T.S	<u>Amruth</u>
30	INH24UMC046	Ganesh R	<u>Ganesh</u>
31	INH24UMC061	M. Prajwal	<u>Prajwal</u>
32	INH24UMC019	Zavi Sherkar	<u>Zavi</u>
33	INH24UMC087	Nidhish Patel	<u>Nidhish</u>
34	INH24UMC011	Seethak Reddy	<u>Seethak Reddy</u>

WORKSHOP – Building a minimal API using .NET

DATED: 08-12-2025

EVENT COORDINATOR

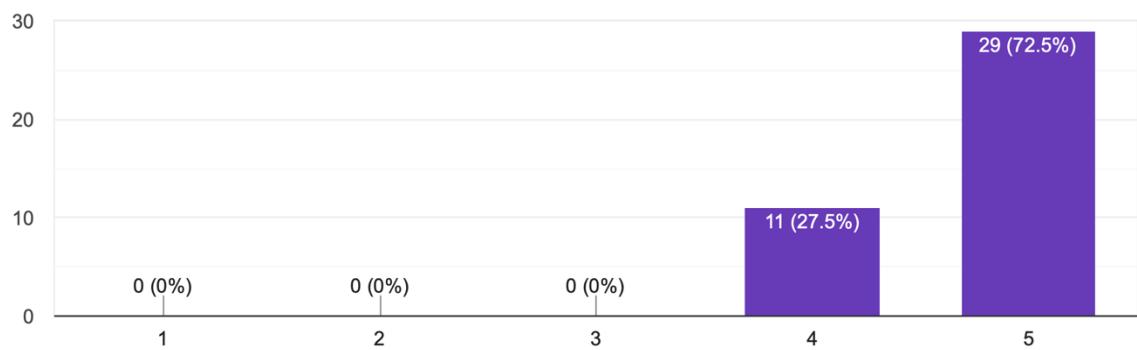
EVENT COORDINATOR

HOD MCA

Feedback:

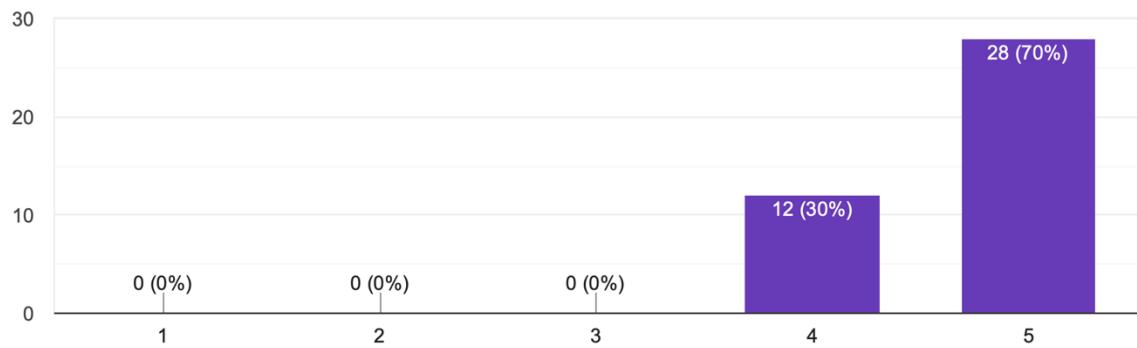
Quality of the training content

40 responses



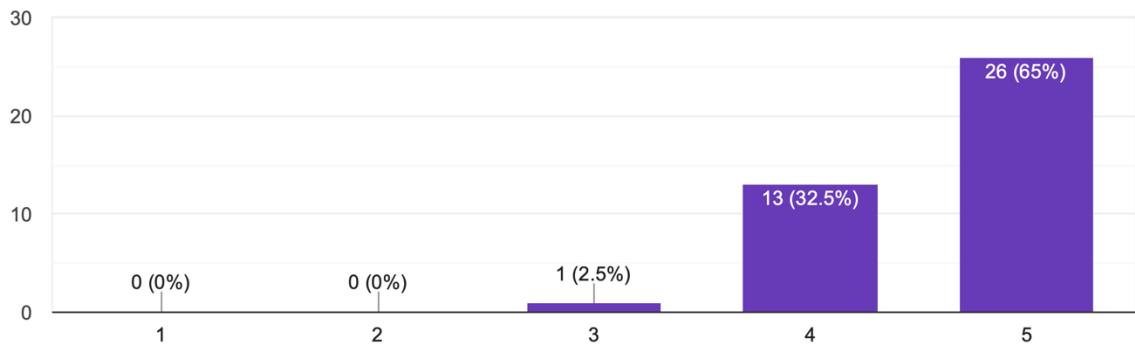
Clarity of the presentation.

40 responses



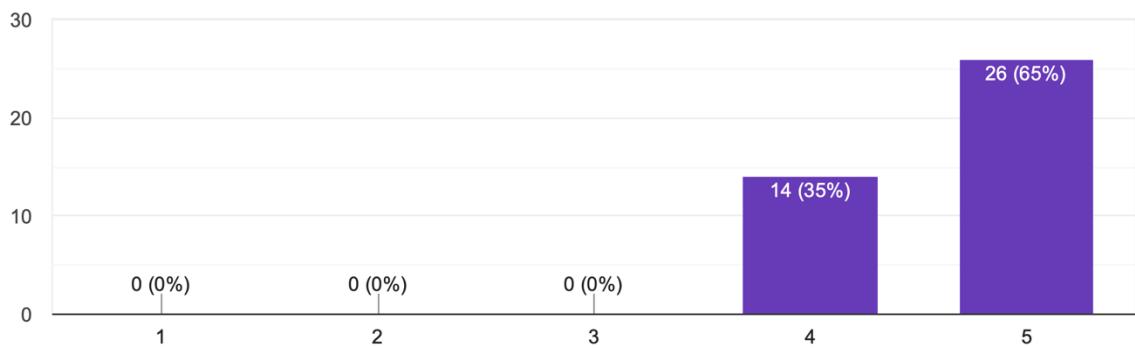
Effectiveness of the examples depicted during the session.

40 responses



Rate the relevance of the topic to future study and work.

40 responses



Prof. Diksha Dhiman
Faculty Coordinator

Dr. V. Asha
Head of Department, MCA