B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

School of Computer, Information and Mathematical Sciences

DEPARTMENT OF INFORMATION TECHNOLOGY

Report of Webinar on Exploring NoSQL – The Whats, Hows and Whys

03.05.2024

Overview

The Department of Information Technology organized a webinar titled "Exploring NoSQL – The Whats, Hows and Whys" on 2nd May 2024 at 7:00 PM. The event was conducted in an online mode and witnessed enthusiastic participation from around 60 students of IV Semester B.Tech IT and faculty members.

The objective of the webinar was to provide a comprehensive understanding of NoSQL databases, their real-world applications, and their growing relevance in the tech industry.

Inauguration and Introduction

The session commenced with a warm welcome address by Dr. Prakash, Professor & Head, Department of IT. Dr. N. Rajendran, Associate Professor / IT introduced the distinguished speaker of the session, Mr. K. Santhosh Kumar, Software Engineer, JPMorgan Chase & Co., Singapore. Mr. Santhosh Kumar is a proud alumnus of B.S.A. Crescent Engineering College and a seasoned industry professional with over 10 years of experience across diverse technological domains.

Technical Session Highlights

The session was rich in insights and interactive discussion. Mr. Santhosh Kumar introduced the fundamental differences between traditional relational databases (RDBMS) and NoSQL databases, emphasizing the shift from rigid schemas to more flexible, schema-less data models. The speaker stressed how NoSQL addresses the limitations of relational databases when handling large-scale, high-velocity, and unstructured data, which is common in today's cloud-native and web-scale applications. Drawing from his industry experience, Mr. Santhosh Kumar shared examples of NoSQL implementations in areas like e-commerce, financial

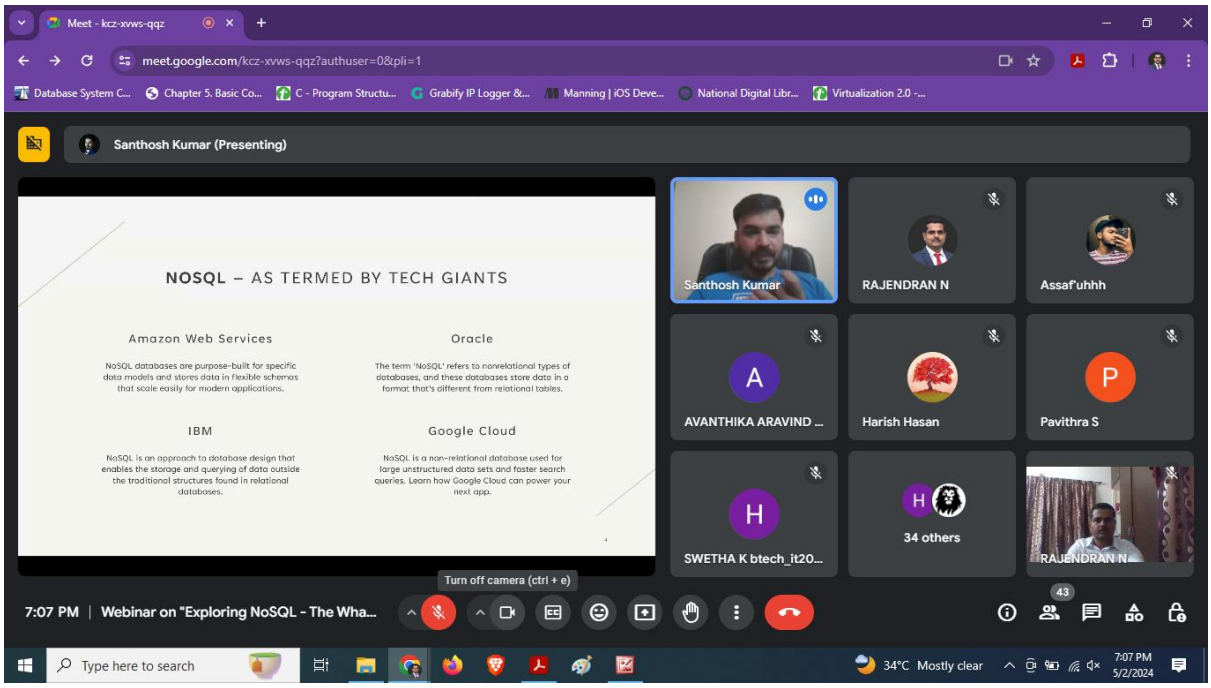
services, and real-time analytics, demonstrating how NoSQL databases (e.g., MongoDB, Cassandra, Redis) are used in production systems.

The interactive format kept participants engaged, and the speaker effectively bridged the gap between theoretical knowledge and industry practices.

Conclusion

The webinar concluded on a high note, leaving students with a deeper appreciation for NoSQL technologies and their importance in the evolving digital landscape. The session was highly informative and served as a stepping stone for students aiming to pursue careers in data management and scalable system design. The event ended with a formal vote of thanks delivered by Dr. N. Rajendran, Associate Professor / IT and Coordinator of the Webinar, who acknowledged the efforts of the organizing team, the guest speaker, and the active participation of students and faculty.

Screenshots of the Webinar



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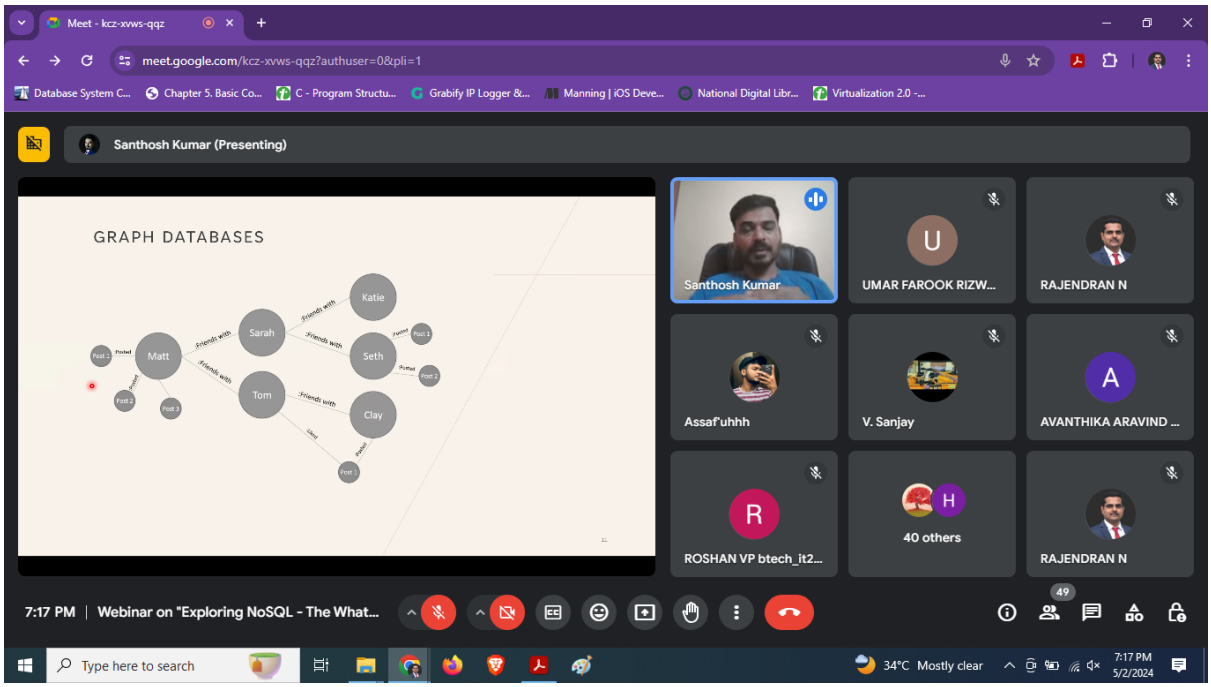

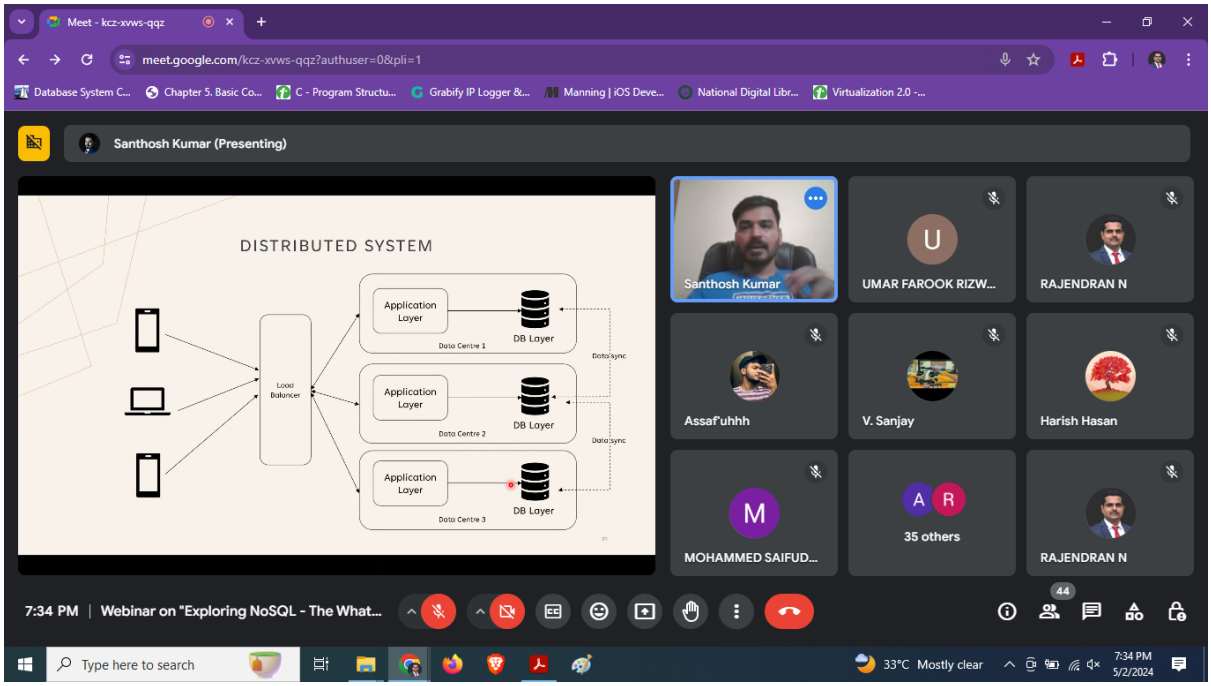

Coordinator
Dr. N. Rajendran

HOD / IT
Dr. N. Prakash

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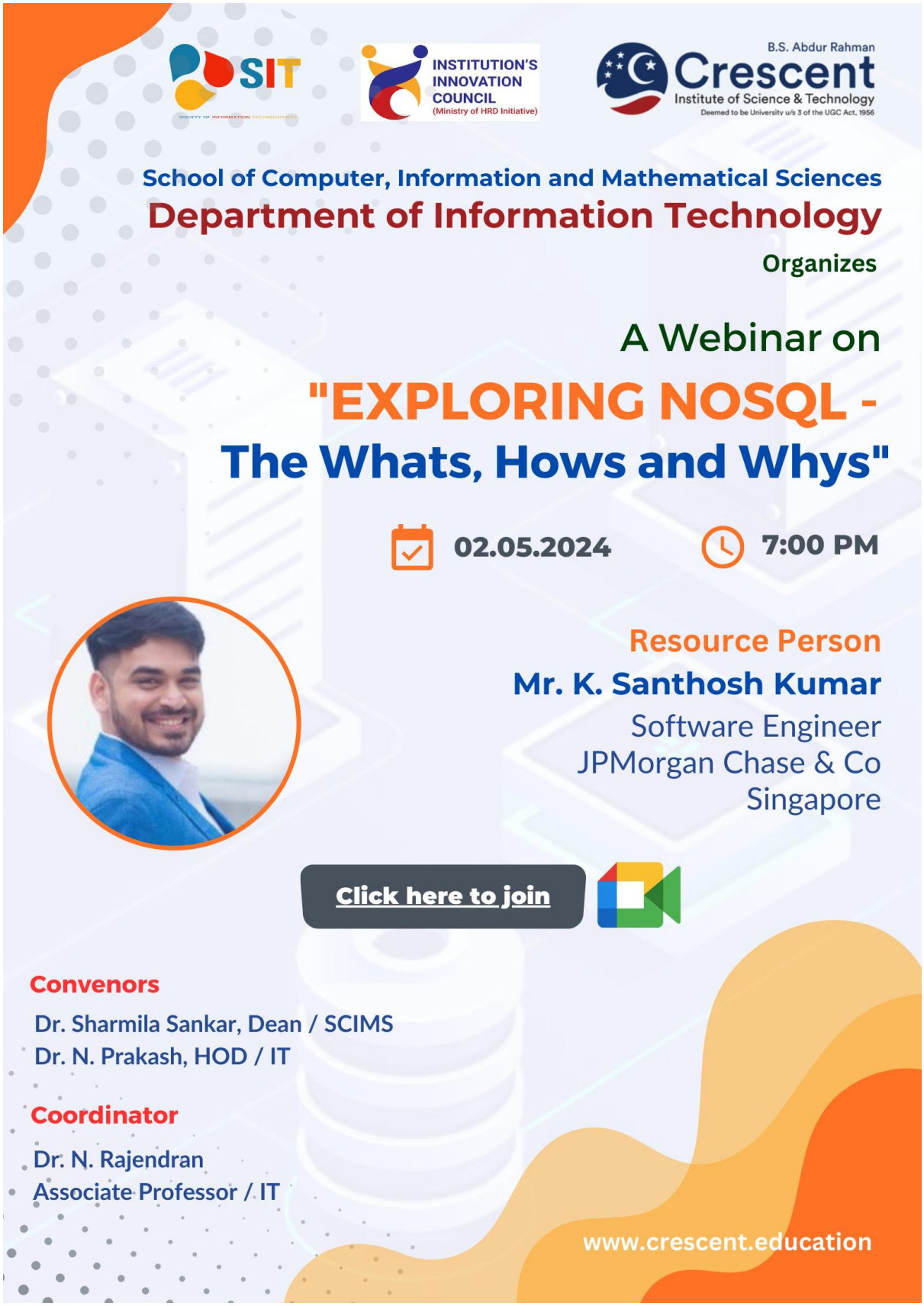
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