KKR&KSR Institute of Technology and Sciences
Vinjanampadu, Guntur, Andhra Pradesh-522017

Approved by AICTE, New Delhi and Permanent Affiliation from JNTUK, Kakinada
Accredited with "A" Grade by NAAC & NBA Accreditation Status for 4 UG (CSE, ECE, EEE, ME) Programs

A One Week Workshop on MongoDB by CodeTantra from 13/02/2023 to 18/02/2023.

About the Workshop:

MongoDB is a popular open-source document-oriented NoSQL database program that was developed by MongoDB Inc. It is a non-relational database that is designed to store data in a flexible, JSON-like format. MongoDB stores data in documents, which are similar to JSON objects, and uses a flexible schema that allows for changes to be made easily. It is widely used in modern web applications due to its ability to handle large volumes of unstructured data and its ability to scale horizontally across multiple servers.

MongoDB is known for its high performance, scalability, and ease of use. It has a rich query language that supports complex queries, aggregation, and indexing. MongoDB also supports a wide range of programming languages, making it a popular choice for developers. It is widely used in industries such as finance, healthcare, e-commerce, and social media, among others.

About the Company:

CodeTantra, India.

CodeTantra is a Startup India recognized EdTech Startup founded in 2014, with the original aim of inculcate software coding skills among youth everywhere. Acquiring our first customer in 2018, we have come a long way in serving some of the top educational institutions and 100s of 1000s of students and 10s of 1000s of teachers across the world. The platform which started as an interactive, intelligent platform to learn programming, has now evolved into multiple product lines centered around our award-winning Virtual University/School platform, with a wider mission to facilitate quality education for all. Our interactive teaching & learning platform has also been selected by the Ministry for Human Resources Development (MHRD, Government of India) and AICTE as one of a handful of EdTech companies today after a rigorous evaluation process.

1. **Objectives of the Event:**

Scalability: MongoDB is designed to handle large volumes of data and can scale horizontally across multiple servers, making it ideal for modern web applications that require high scalability.

Performance: MongoDB is optimized for high performance and can handle large amounts of data with ease. It supports rich query language, indexing, and aggregation, which makes it faster than traditional relational databases.

Flexibility: MongoDB has a flexible schema that allows for changes to be made easily. It stores data in JSON-like documents that can be nested, making it easier to store complex and unstructured data.

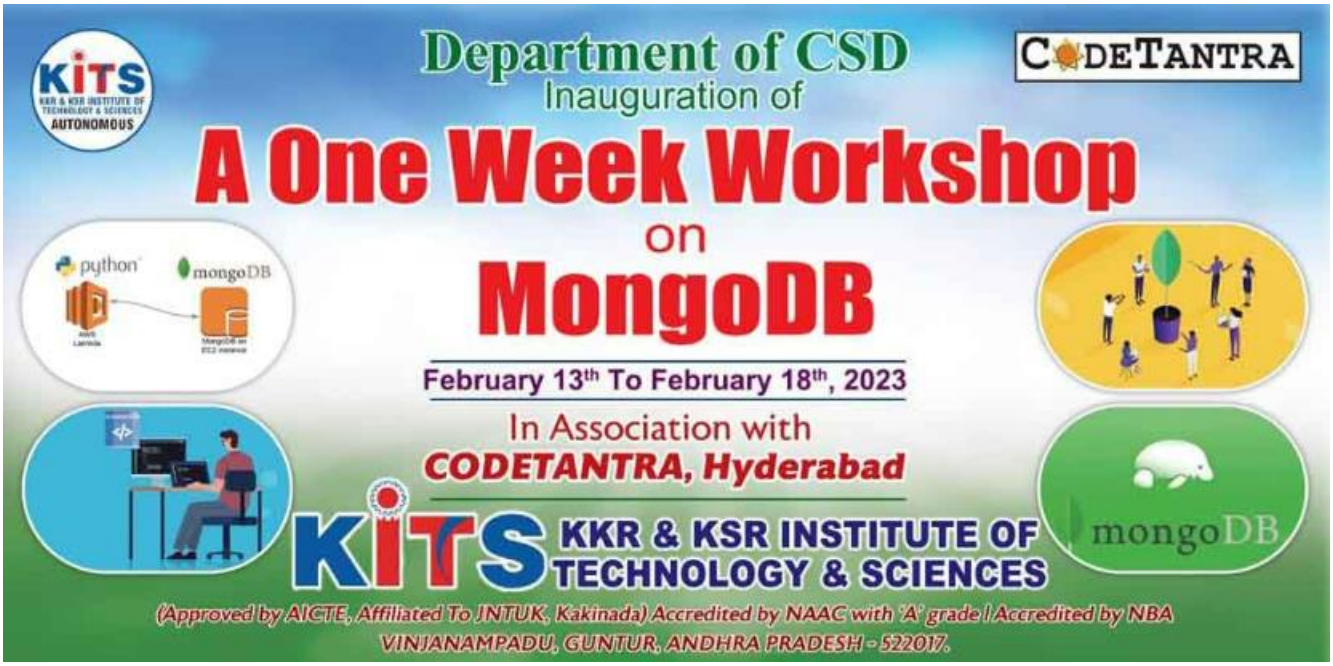
Availability: MongoDB is designed to ensure high availability and fault tolerance. It supports automatic failover, replication, and sharding, which makes it highly available and reliable.

Easy Integration: MongoDB supports a wide range of programming languages, making it easy to integrate with different frameworks and tools.

Venue of the Event:

The event is organized by KKR & KSR Institute of Technology and Sciences, Vinjanampadu, Guntur, Andhra Pradesh in association with SPARK.

2. **Date & Time of the Event:** The Event is organized **on 24th February 2023**
3. **No. of students participated:** 130
4. **No. of faculties participated: 7**
5. **Event photographs.**



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INNOVATION
COUNCIL
(Ministry of HRD Initiative)

KITS

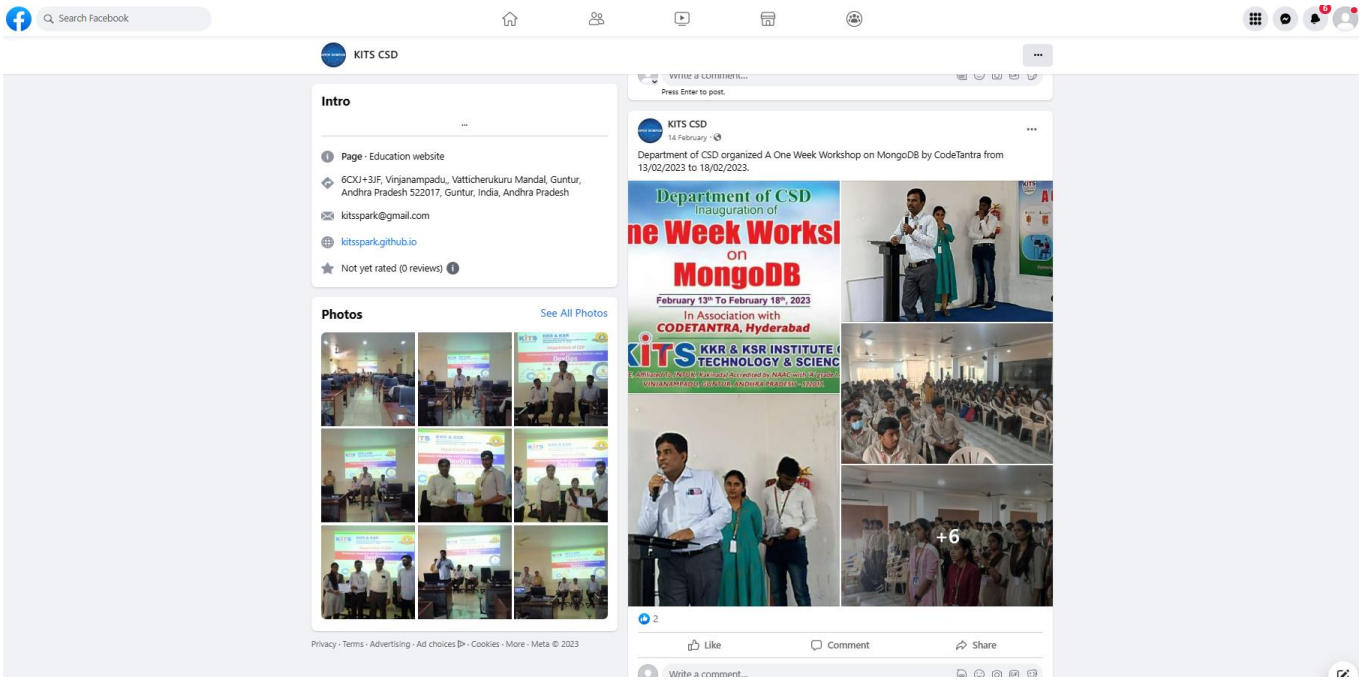
6. Benefits in terms of learning/Skill/Knowledge obtained.

Workshops are an essential part of academic life, Listeners will get the knowledge on the following topics.

- High Demand
- Scalability
- Flexibility
- Performance
- Easy Integration
- Career Growth

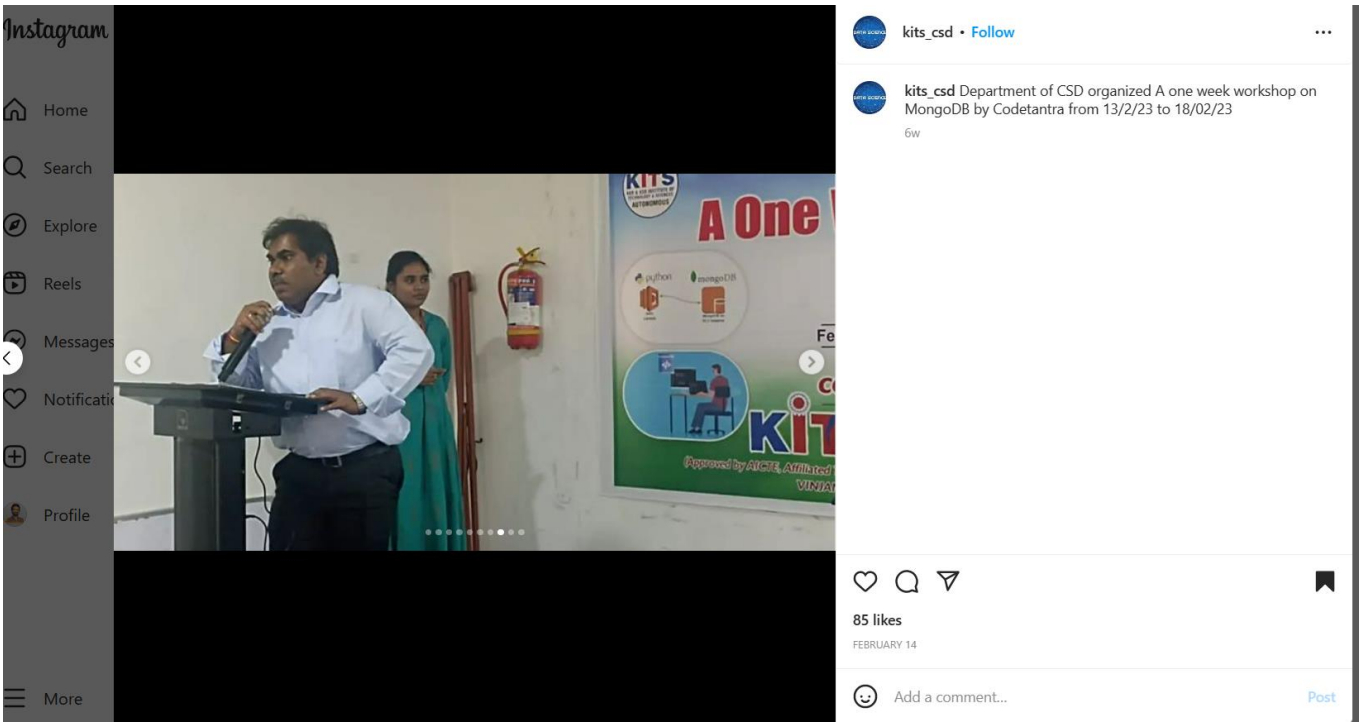
7. Promotion of the Event on the Social Media Website: (Link and Screenshot):

[(6) KITS CSD | Guntur | Facebook]



8. Event on the University/college :(Link and Screenshot)

KITS_CSD (@kits_csd) • Instagram photos and videos



9. **Expenditure Amount (If any):** Nil

10. **Remarks:** The workshop is organized smoothly with practical orientation.

11. **Experiences and Output of the Session**

1. Many faculty, research scholars and students from various colleges attended this **One Week Workshop on MongoDB by CodeTantra from 13/02/2023 to 18/02/2023**, conducted by KKR & KSR Institute of Technology and Sciences in association with SPARK.

The following outcomes are achieved with the Seminar

- Better Career Opportunities: With the increasing demand for MongoDB in modern web applications, learning MongoDB can help individuals to pursue careers as database administrators, data analysts, software developers, and more.
- Enhanced Skills: Learning MongoDB can help individuals to enhance their skills in database management, data modeling, and programming, among other areas. It can also improve their understanding of data structures, algorithms, and query optimization techniques.
- Improved Productivity: MongoDB's flexible schema, rich query language, and indexing features can help developers to create applications more efficiently and with fewer errors.

- Scalability and Performance: Learning MongoDB can help individuals to design and build scalable and high-performance applications that can handle large volumes of data and complex queries.
- Improved Data Management: MongoDB's document-based data model allows for the efficient management of unstructured data. Learning MongoDB can help individuals to better organize and manage data, making it easier to access, search, and analyze.
- Opportunities for Innovation: With its support for new data types and integration with emerging technologies like machine learning and artificial intelligence, MongoDB provides opportunities for individuals to innovate and create new solutions..

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