School of Computer Science and Engineering
Full Stack Development Club Report

Date: 08th June 2023

Venue: 318 Seminar Hall.

Programs Organized: Technical Talk on Databases in Azure

Participants: B. Tech CSE 4th Semester Lateral entry Students

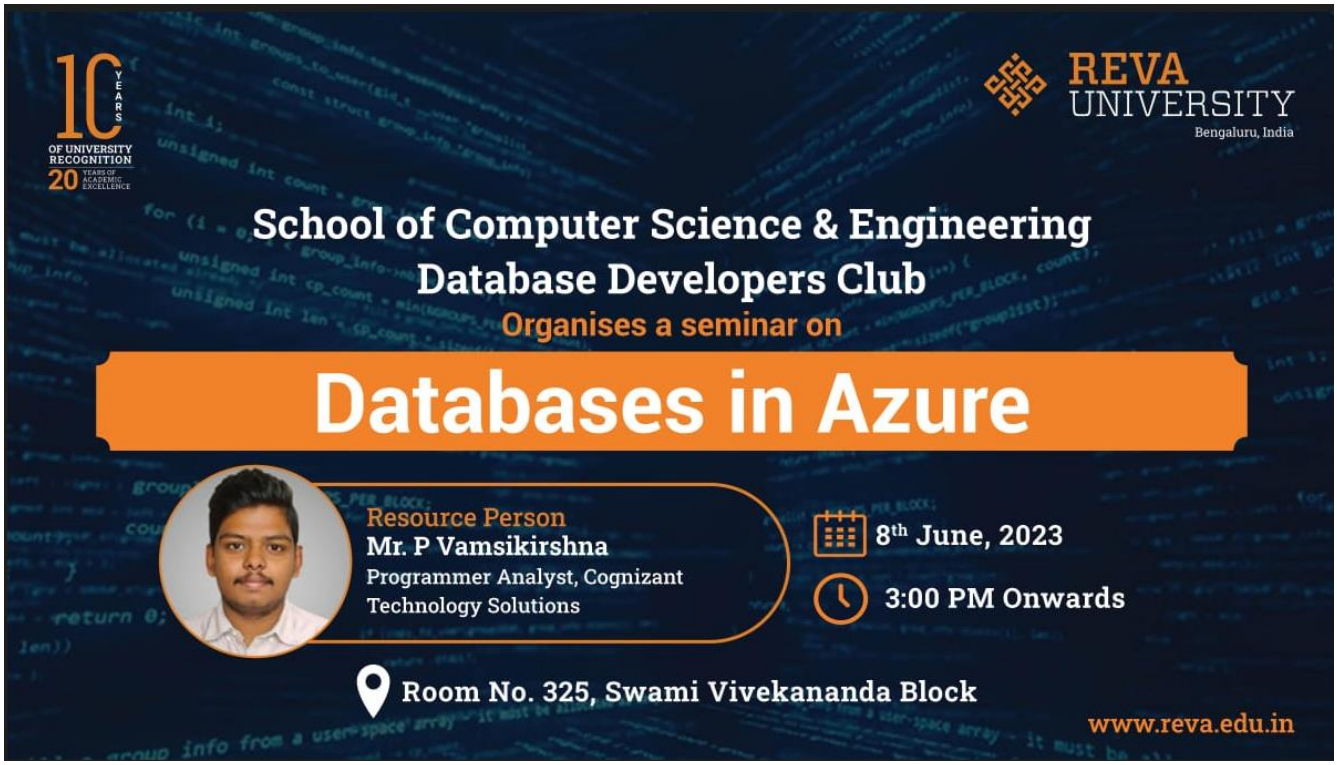
Description: Technical Talk for Developers interested in Full Stack Development held by Full Stack Development Club (FSD) under the guidance of the Faculty coordinators Prof.K.Thanuja , Prof.Manasa and Prof.Raghavendra Reddy and Student coordinators and core members of FSD Club. We have invited the Alumni student Mr.Vamsikrishna P to give the importance of databases in Azure .

Following are the outcomes achieved During the talk:

- Azure's importance lies in its ability to provide a robust and comprehensive cloud computing platform that supports a wide range of services, promotes agility and scalability, enhances security, and enables organizations to innovate and drive digital transformation.
- Compute: Azure provides virtual machines (VMs) for running applications, container services like Azure Kubernetes Service (AKS) for orchestrating containerized applications, and serverless computing options such as Azure Functions for event-driven scenarios.
- Storage: Azure offers various storage services, including Blob storage for unstructured data, Azure Files for file shares, Azure Disk Storage for persistent block storage, and Azure Data Lake Storage for big data analytics.
- Networking: Azure provides virtual networks (VNets) to securely connect resources, load balancers for distributing incoming traffic, VPN Gateway for hybrid connectivity, and Azure CDN for content delivery.

- Databases: Azure offers a wide range of database services, including Azure SQL Database for relational databases, Azure Cosmos DB for globally distributed databases, and Azure Database for MySQL, PostgreSQL, and MariaDB.
- AI and Machine Learning: Azure provides AI services such as Azure Cognitive Services for adding intelligent capabilities to applications, Azure Machine Learning for building and deploying ML models, and Azure Databricks for big data analytics and AI workflows.
- Analytics: Azure offers services for data analytics and business intelligence, including Azure Synapse Analytics (formerly SQL Data Warehouse) for data warehousing, Azure HDInsight for big data processing, and Azure Data Factory for data integration.
- Internet of Things (IoT): Azure IoT services enable organizations to connect, monitor, and manage IoT devices at scale. It includes Azure IoT Hub, IoT Central, and IoT Edge for edge computing scenarios.
- DevOps: Azure DevOps provides a suite of tools and services for end-to-end application lifecycle management, including source control, build automation, continuous integration/continuous deployment (CI/CD), and application monitoring.
- Security and Identity: Azure offers robust security features, including Azure Active Directory for identity and access management, Azure Security Center for threat protection and monitoring, and Azure Key Vault for secure key and secret management.
- Management and Governance: Azure provides management tools such as Azure Portal, Azure Resource Manager (ARM), and Azure Monitor for centralized management, monitoring, and governance of Azure resources.

Photographs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Resource Person
Mr. P Vamsikirshna
Programmer Analyst, Cognizant
Technology Solutions
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3:00 PM Onwards
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