

SNS COLLEGE OF TECHNOLOGY, COIMBATORE –35 (An Autonomous Institution)

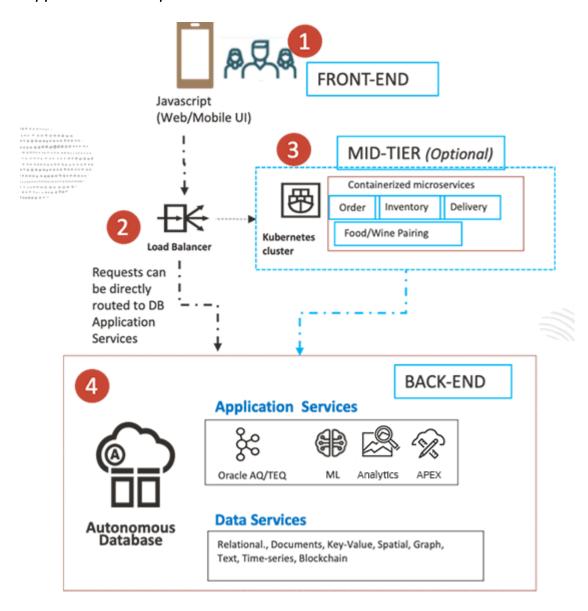


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CASE Studies- Oracle: Database Design and Querying Tools; SQL Variations and Extensions

Build a mobile food delivery app with a data-centric architecture pattern using Kubernetes engine, Docker containers, and Oracle Autonomous Database. Modern AppDev is synonymous with data-driven microservices generating operational data and code events, and it incorporates artificial intelligence (AI) and/or machine learning (ML). A converged data platform on Oracle Cloud Infrastructure (OCI) simplifies the creation of new microservices to handle a variety of events and data with tables, JSON, graph, and spatial data types. The GrabDish app example shows how a complete microservices platform can be instantiated automatically using terraform scripts, simplified DevOps with Kubernetes, and sample microservices code.

Modern application development

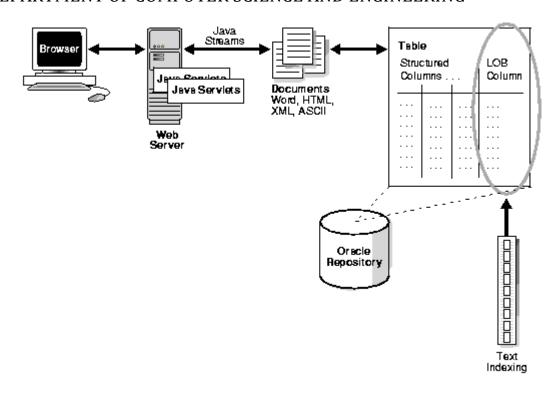




SNS COLLEGE OF TECHNOLOGY, COIMBATORE –35 (An Autonomous Institution)



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



SQL Server

Common frontend

Client communications, T-SQL, parser, query optimizer, access control, metadata, ...

Apollo engine for OLAP

Column store

Classical SQL Server engine

Disk-based row store

Hekaton engine for OLTP

In-memory row store

Common backend

Storage, logging, high availability (AlwaysOn), ...