

SMART CLIENT, DATA STORE, APPLICATION AND ENTERPRISE SERVER BASED ARCHITECTURE

Lesson 02

Data Store Objects

DATASTORE

- DataStore means a data repository of a set of integrated objects

DATASTORE OBJECTS

- Consist of data as well as associated methods for data usage
- DataStore objects for an app at different computing tiers
- When modifies at a tier, synchronize with other tiers at the client or server ends.

DATA STORE OBJECT SYNCHRONIZATION

- Any change at a tier reflects at all other tiers by a process of synchronization
- The server messages and sends the changes or alerts to the client
- It enables maintenance of consistent DataStore objects

APPS IN THE SMART CLIENT

- Access DataStore and caches at the device
- Web app data storage is at DataStore objects at the mobile device and server
- *DataStore means a data repository of a set of integrated objects*

DATASTORE OBJECTS MODEL

- Uses the classes defined in database schemas
- A schema object means specifications of a logical data storage structure
- The object types can be files, e-mails, messages, databases, distributed DataStores, and directory services

A DATABASE SCHEMA

- The structure in a language supported by the DBMS
- Describes the organization of data, construction of database, and the tables in RDBMS
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RDBMS SCHEMA

- A set of relations (integrity constraints) imposed on a database
- The constraints specified in the same database language

DEVICE DATA STORAGE

- Enables access to an application even when the mobile device disconnects from the network
- DataStore at the mobile device and server maintain persistency

DATASTORE PERSISTENCY

- Persistency in the context of mobile devices means the data remains intact till deleted even if the device power is interrupted
- Also implies that a change in data during an operation is simultaneously stored and reflected at all related files in a file system, database, or any other record

SUMMARY

- DataStore means a data repository of a set of integrated objects
- DataStore Objects integrated
- Persists at Client (device) as well as server
- Synchronize for consistence of stored data

End of Lesson 02

Data Store Objects