

Subject : Advanced Database Management System

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Abstract :

- ◆ Authentication
 - ◆ Encryption of Credentials.
- ◆ Authorization
 - ◆ Different levels of Authorization for Class Teachers and Students.
- ◆ Fragmentation
 - ◆ Assuming there are two locations where teachers and students are located.
 - ◆ We have database at each location. Here vertical fragmentation and horizontal fragmentation will be implemented according to the situations arising while implementing.
- ◆ Duplication
 - ◆ For each database in case of server failures and for load balancing.
- ◆ Replication
 - ◆ For Load Balancing. Instead of accessing master database for read and write operations. We will use a slave database where only read operations can be done which in turn increases the data accessing speed.
- ◆ Develops a mobile app using Flutter Framework
- ◆ Some of the Options in app would be
 - ◆ user Registration
 - ◆ User Profile
 - ◆ Classroom creation
 - ◆ Task assignment
 - ◆ Task Submission
 - ◆ Evaluation of Task and awarding points and giving remarks
 - ◆ LeaderBoard For Each Classroom