



North South University

Department of Electrical & Computer Engineering

Course Code: CSE311.2

Paper Reading – Report 1

**TAO: Facebook's Distributed Data Store for the
Social Graph**

Team Straight Ace

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Overview and Contributions:

- TAO systems store information by replicating databases across many regions for faster and well-organized access.
- Interconnections among people, groups and organizations in a social network are shown graphically in TAO.
- They actuate and identify the workload to make it more efficient and available for reads which is 99.8% of the requests.
- In this system, it would check all the underlying nodes and edges of the event when a read or write request is made.
- Unfortunately, using TAO's out-of-order convention increases the latency of the server.

System implementation:

- Tao uses sharding method which splits and stores a single logical dataset in multiple database.
- Tao uses Association Query API, Object API and, Association API to give users a better interface.

Evaluation:

- TAO requires much less space than Memcache and also is more efficient.
- To prevent query line blocking on multiplexed connections they use a convention with out-of-order responses.