

PROJECT TOPIC: EDAL (ENHANCED DATA ACCESS LAYER)

Group No.: 9

Project Group Members:

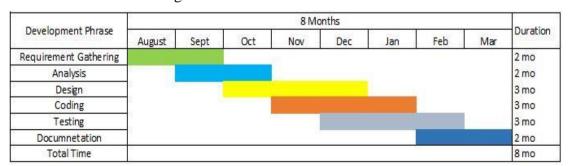
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About the Project: A Data Access Layer in computer software, is a layer of a computer program which provides simplified access to data stored in persistent storage of some kind, such as a relational database. This allows the client (or user) modules to be created with a higher level of abstraction. This kind of model is capable of extracting data from a database of a single vendor. Another implementation could potentially retrieve or write records simultaneously from a variety of databases of different vendors. This kind of implementation is known as **Enhanced Data Access Layer** (**EDAL**). The EDAL hides the complexity of managing different connections to different databases, by providing a common query language that is further parsed to database specific query.

Motivation: A number of databases by a number of vendors are present out in the market. An Orthodox Approach will require distinct connections to each database. EDAL aims to provide a technique to simultaneously access data from different databases. By means of a single operation that is applicable to all major databases. The operation to be performed is database independent. This database independent operation is then parsed into database dependent/specific query and fired upon the respective database.

Project Planning: In the initial stage, we would try to operate upon only single database. We will try to parse user operations into database specific query. Thereafter, we will expand our project to multiple databases, starting from one more database to the maximum we can integrate.







Tools required:

- **>** Hardware Requirements:
 - Minimum P3, 1 GB RAM, 1.5 GB minimum Hard Disk
 - Serial/Optical Mouse
 - Keyboard 104 Enhanced Standard
- > Software Requirements:
 - OS: Windows 7 or up
 - Technology: Java, JDBC, Advance Java
 - Software: JDK v1.6 or up, Database Software (min 2, pref. 3)
 - Web Server: Apache Tomcat 8.0 or up (optional)

Signature of Pro	iect Guide:	