**D-Mat Documentation**

1. Project is based of MVC design which carries 4 packages.
2. **Controller Package**: Carries all the classes based on operations of depositing/withdrawing money and buying/selling shares.
3. **DAO Package**: Carries DAO interface and DAO classes
4. For inserting updating deleting and retrieving data from DB.
5. UserDAO and ShareDAO uses the methods of DAO interface.
6. **Dmat package**: Carries Main class which will run the codes.
7. **Model Package**: For displaying menu and registering user.
8. We made 3 tables in DB: a. Shares b. User\_details c. Transactions
9. **Shares** carries details of stocks - stock name, stock id and stock price.
10. **User** carries details of users- username, account number, account balance, email id, country name.
11. **Transactions** carries details of buying/ selling of stocks by user – Automatic transaction id, username FK, number of shares transacted, share name FK, Transacted price + taxes, Transaction type (Bought/Sold), Automatic Date & Time .
12. When share is bought by user it checks for whether **share exists in application** or not if not then check for share details else proceed with transaction.
13. When share is sold by user it checks for the number of **shares user is left** with (calculations bought stocks – sold stocks made through sql queries in DB) for particular stock.

**NOTE:**

1. Please refer all the classes as it carries functionalities of every particular class in comments.
2. There is dependency of Database: Database name – Dmat, User name – amazon, password – teja@123
3. Admin of shares hardcoded details: Email: [Learnoa@mail.com](mailto:Learnoa@mail.com) password: learnoa@123