- A. Functional Dependency
 - 1) Suppliers: A → ABCDEFGH
 - 2) Order: B \rightarrow ABCDEFG, C \rightarrow F
 - 3) OrderDetail: A → ABCDEF, B → CF
 - 4) Product: A → ABCDEF
 - 5) Category: A → ABCD
 - 6) Delivery: A → ABC
 - 7) Shippers: A → ABCD
 - 8) Customer: A → ABCDEFGHIJ, G → H
- B. Constraints
 - 1) Suppliers: Primary Key (A)
 - 2) Product: Primary Key (A), Foreign Key (C) Refers Category(A)
 - 3) Category: Primary Key (A)
 - 4) Order: Primary Key (A), Foreign Key (C) Refers Suppliers (A)
 - 5) OrderDetails: Primary Key (A), Foreign Key (B) Refers Product (A)
 - 6) Delivery: Primary Key (A), Foreign Key(C) Refers Suppliers(A)
 - 7) Customer: Primary Key (A)
 - 8) Suppliers: Primary Key (A)
- C. Functionalities

Proposed -

- 1) File like pictures saved in through File system like AWS S3 Bucket or Firebase Storage Service.
- 2) Graph implementation to show the product flow in the company.
- 3) Web Scrapping to show comparison with another online Platform.
- 4) User Authentication
- 5) Rating Calculation through User Feedback
- D. Checks
 - 1) Credit Card Information (Primitive)
- E. Security (Proposed)
 - 1) Hashing
- F. Size of Databases
 - 1) Companies database would have between 20 -30 tuples.
 - 2) Category have 10 15 values.
 - 3) Product under ever Category with entries between 30 40 each.

^{**} The Size Increase will happen on the basis on the project competition time **