

Blue Moon (Group 17)

E-Bond Trader

1. Allow users to view the list of available bonds
2. Allow users to manage different bonds (buy/sell).
3. Allow users to view the list of booked trades.

Priority List of Tasks

1. Database creation and data cleaning.
2. Establishing a working connection between the client side and the server side.
3. Establishing a working connection between the server and the database.
4. Accepting list of available bonds from the database.
5. Creating user interface for screen 1 and displaying the list of bonds on the Client system.
6. Creating user interface for screen 2 with options to fill ISIN, trade date, settle date and yield.
7. Processing filled data to calculate clean price, dirty price, accrued and the settled amount.
8. Displaying calculated data on the screen 2.
9. Writing functions for the following:
 - a. On changing clean price, the dirty price and yield should be recomputed and accordingly the amounts,
 - b. On changing dirty price, the clean price and yield should be recomputed and accordingly the amounts.
10. Creating options for buying bonds on screen 2.
11. Persisting (saving) data on the "User specific trades" database when the trader chooses the buy option.
12. Creating user interface for screen 3.
13. Accessing trades carried out from the "User specific trades" database and displaying on the client system on screen 3 (Trade Blotter Screen).
14. Creating option for selling a bond on screen 2 (dropdown for ISIN will show only the bonds which the trader has).

Database Tables to be made:

1. Currency Conversion Rates

Conv_ID	From Currency	To Currency	Conversion Rate
1	USD	INR	...
2	INR	USD	...
3	EUR	USD	...

2. List of available bonds

ISI N	Bond Descriptio n	Start Date	Maturity Date	Coupon Period	Coupon Rate	Piece Size	Bond Currency

3. Client data

Client_I N	First Name	Last Name	Email	Phone Number
1				
2				
3				

4. User specific trades

ISIN	Trade Date	Settlement Date	Trade Yield	Clean Price	Dirty Price	Accrued Amount	Settlement Amount	Cllient_IN

Screens present in the Desktop Application

Search						
Currency INR						
ISIN	DESC	START DATE	MATURITY DATE	COUPON PERIOD	COUPON RATE	PIECE SIZE
1234						
BUY				SELL		

Search			
ISIN	TRADE DATE	SETTLE DATE	YIELD
COMPUTE			
CLEAN PRICE	DIRTY PRICE	ACCRUED INTEREST	SETTLED AMOUNT
BUY			

Search

Currency

INR

ISIN	DESC	START DATE	MATURITY DATE	COUPON PERIOD	COUPON RATE	PIECE SIZE
1234						

BLOTTER SCREEN

X

ISIN	DESC	BOOKING DATE	ACCRUED PRICE	STATUS	CLIENT ID
1234					
4321					