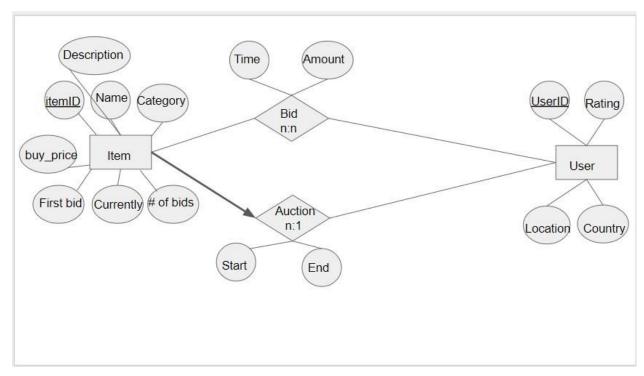
CS564 Programming Project #1

ER modeling & Schema Design

ER Diagram



Notation:

Primary key: underlying attribute Participation constraint: thick line

Key constraint: one direction arrow from n to 1

Schema

ItemAuction (ItemID: int,

Name: text, Currently: real, Buy_Price: real, First_Bid: real,

Number_of_Bids: int,
Description: text,
Started: text,
Ends: text,
UserID: text,

Primary Key (ItemID),

Foreign Key (UserID) References User)

User(<u>UserID</u>: text, Rating: int, Location: text, Country: text,

Primary Key (UserID))

Bids(ItemID: int, UserID: text, Time: text, Amount: real,

Foreign Key (ItemID) References ItemAuction,

Foreign Key (UserID) References User)

Primary Key : <u>itemID(</u> from ItemAuction), <u>userID(</u> from User)

Foreign Key:

The foreign key userID in ItemAuction is referenced from the primary key <u>userID</u> in User.

The foreign key userID in Bids is referenced from the primary key <u>userID</u> in User.

The foreign key itemID in Bids is referenced from the primary key itemID in ItemAuction.

The foreign key itemID in Item_cat is referenced from the primary key itemID in ItemAuction.