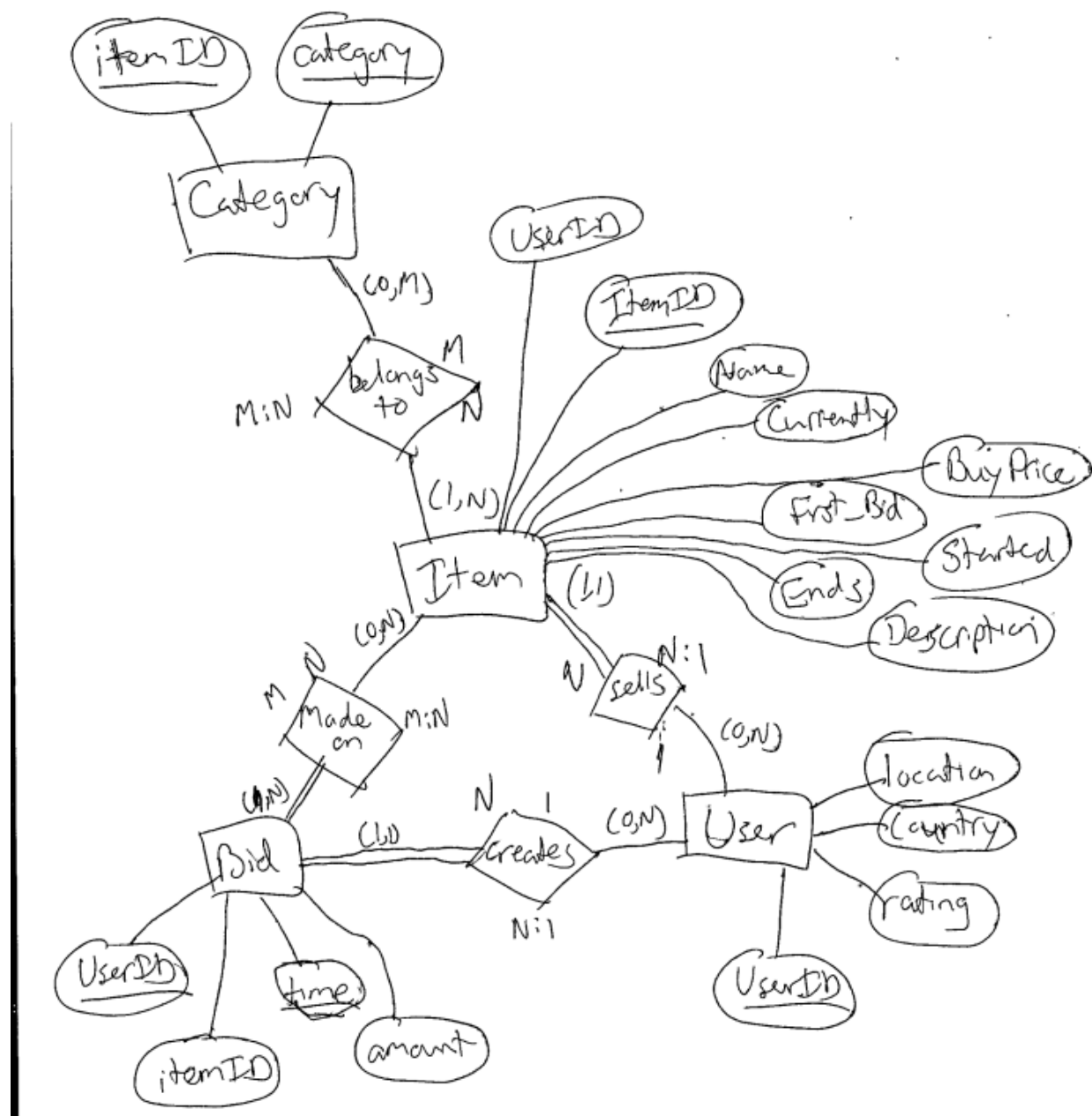


## Project 2 Report

### ER Diagram



### Assumptions:

- Categories can be devoid of items.

- Each item that is listed must be categorized somewhere.
- Not all users are sellers. Not all users are buyers. But the union of buyers and sellers make up all users.
- Not all items can be bid on. Those that cannot are purchase at asking price only.
- Users cannot make more than one bid at the same time.
- The system can handle multiple bids being made at the same time.

#### Schemas

Item(itemID: integer, name: string, currently: float, buy\_price: float, first\_bid: float, started: datetime, ends: datetime, userID: string, description:string,

Primary key(itemID),

Foreign key (userID) references User(userID)

);

User(userID: string, rating: integer, location: string, country: string,

Primary key(userID)

);

Bid(itemID: integer, userID: string, time: datetime, amount: float,

Primary key(userID, time),

Foreign key (itemID) references Item(itemID),

Foreign key (userID) references User(userID)

);

Category(itemID: integer, category: string,

Primary key(itemID, category),

Foreign key (itemID) references Item(itemID)

);