

PROGRESS REPORT

INVENTORY MANAGEMENT SYSTEM

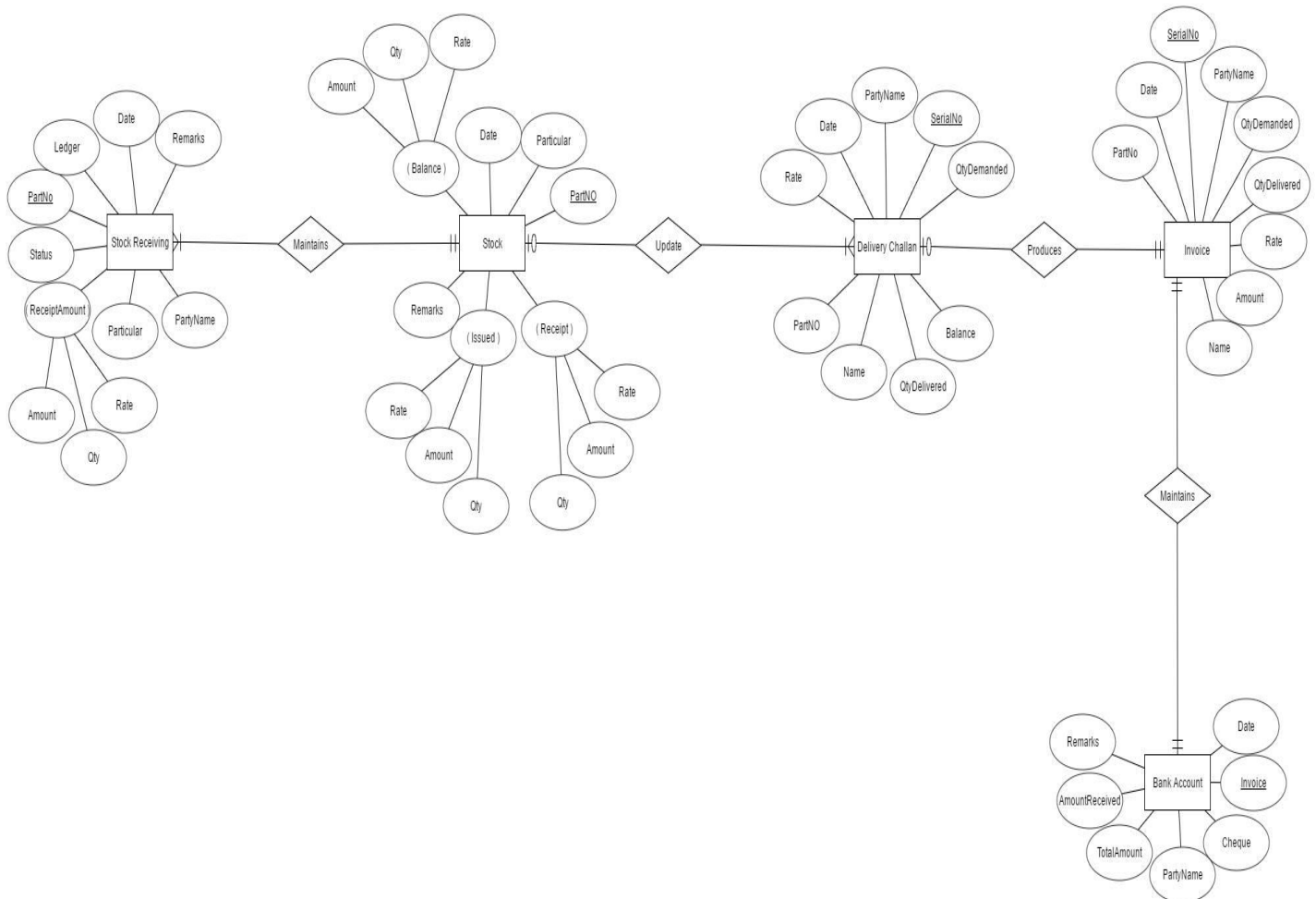
REQUIREMENT FORMULATION AND ANALYSIS

The software provides an environment to cater all the transactions related to inventory. It will record the details when a product is purchased and maintains a stock of all the products. When a product is prone to sale the stock will be updated with the generation delivery receipt.

On receiving an amount from the party an invoice will be generated. Also the amount received and outstanding at each transaction will be maintained separately.

The software has two different views according to the user. The manager of the software may have all accesses but the access to deletion of any product from the stock is constraint. Also the manager has denied the money related transactions. On contrary, the constraints that are prone to manager are nullified for the owner of inventory.

ER DIAGRAM:



RELATIONAL SCHEMA:

StockReceiving (Date, PartNo, PartyName, Particulars, ReceiptQty, ReceiptRate, ReceiptAmount, Status, Ledger, Remarks)

StockLedger (PartNo, Date, Particulars, ReceiptQty, ReceiptRate, ReceiptAmount, IssuedQty, IssuedRate, IssuedAmount, BalanceQty, BalanceRate, BalanceAmount, Remarks)

DeliveryChallan (SerialNo, QtyDemanded, QtyDelivered, Balance, Name, PartNo, Rate, Date, PartyName)

Invoice (SerialNo, QtyDemanded, QtyDelivered, Rate, Amount, Name, PartNo, Date, PartyName)

BankRecord (Date, InvoiceNo, Cheque, PartyName, TotalAmount, AmountReceived, Remaining)

NORMALIZATION:

DeliveryChallan:

Candidate key:

- SerialNo
- SerialNo, PartNo
- SerialNo, Name

Primary Key:

- SerialNo

Since all the attributes are fully functionally dependent on primary key therefore this table is already in normalized form.

Invoice:

Candidate key:

- SerialNo
- SerialNo, PartNo
- SerialNo, Name

Primary Key:

- SerialNo

Since all the attributes are fully functionally dependent on primary key therefore this table is already in normalized form.

BankRecord:

Candidate key:

- InvoiceNo
- InvoiceNo, cheque

Primary key:

- InvoiceNo

Since all the attributes are fully functionally dependent on primary key therefore this table is already in normalized form.

StockReceiving:

Candidate key:

- Date, PartNo
- PartyName, PartNo.
- Date, PartNo, PartyName.

Primary key:

- Date, PartNo, PartyName.

Since all the attributes are fully functionally dependent on primary key therefore this table is already in normalized form.

StockLedger:

Candidate key:

- Date, PartNo
- PartNo

Primary key:

- PartNo

Since all the attributes are fully functionally dependent on primary key therefore this table is already in normalized form.