

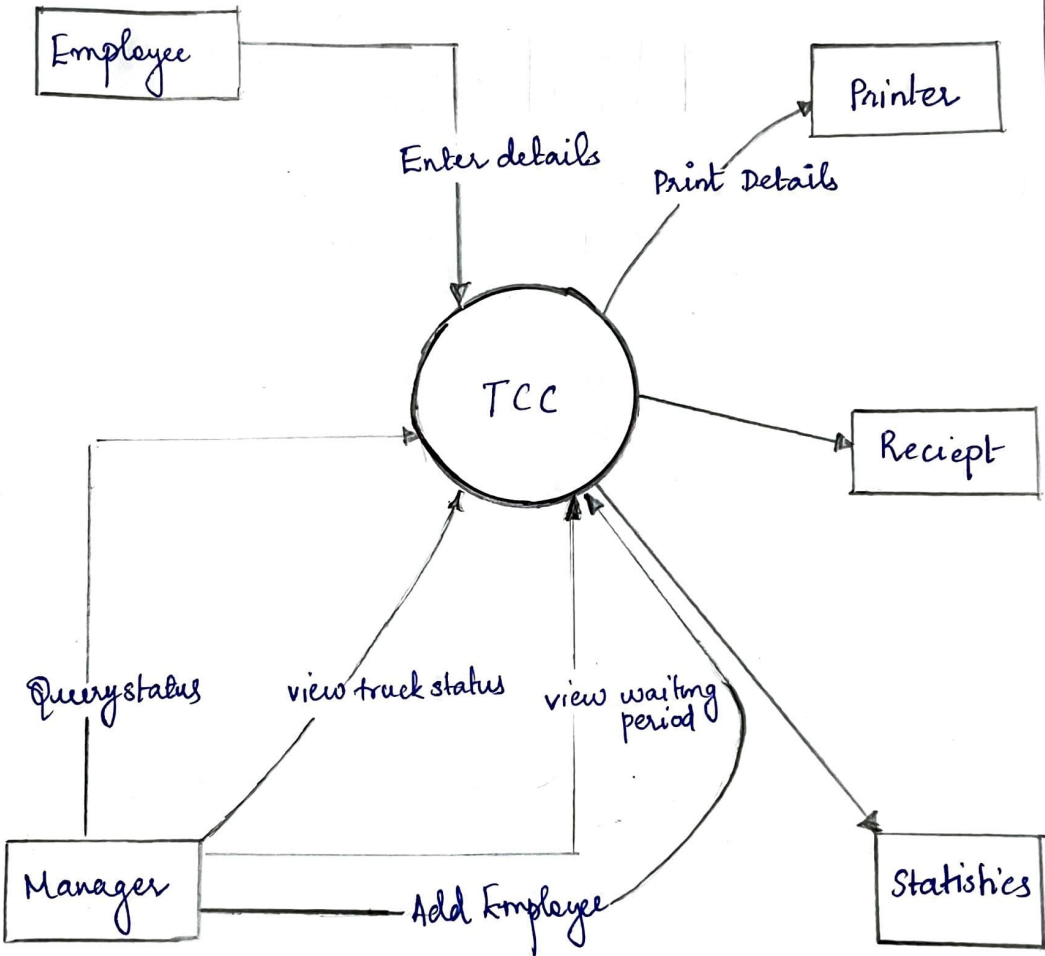
ASSIGNMENT

Transport Company Computerisation (TCC)
Software.

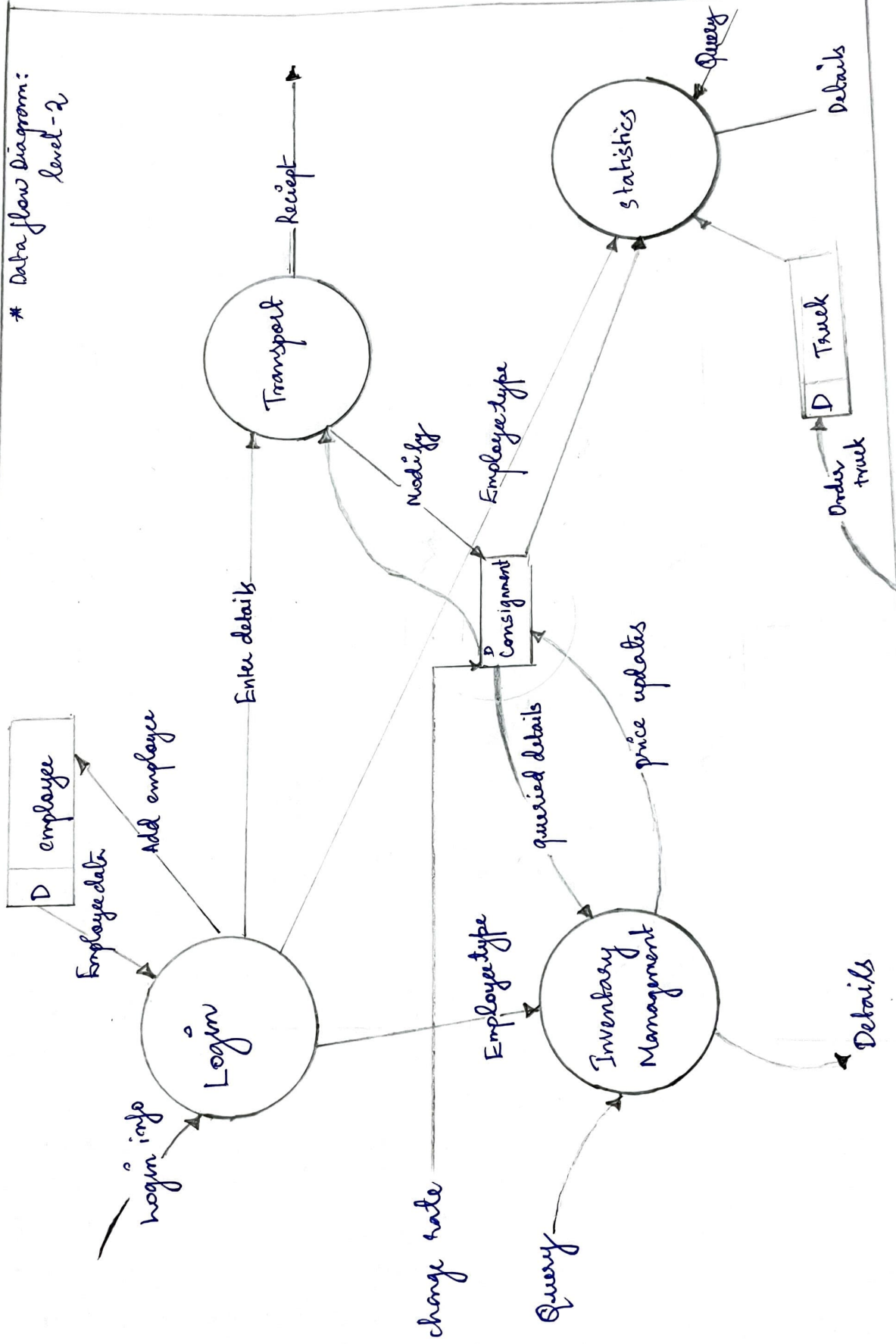
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IT-B , 02

-: Structure Analysis &
Structure Design.

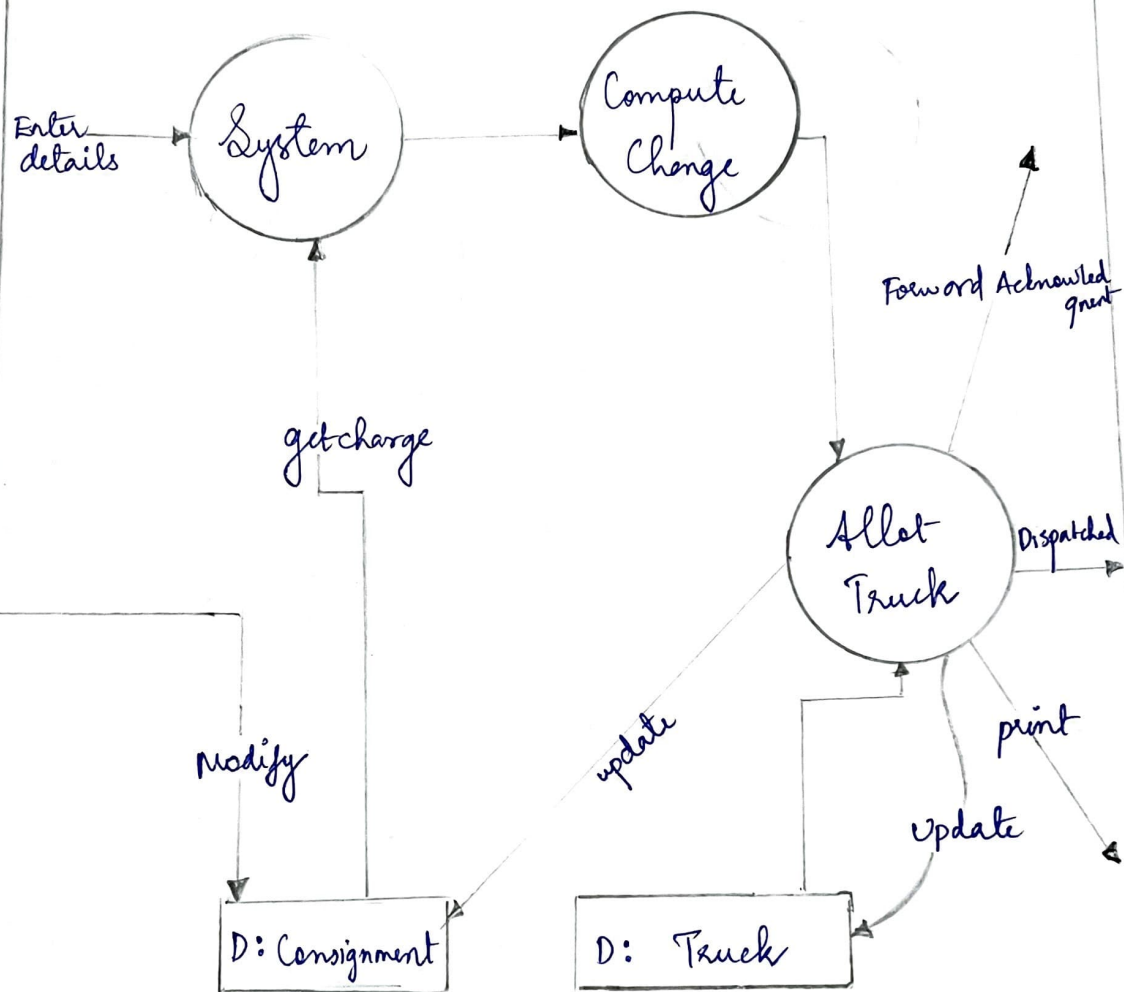
* Data Flow Diagram - level 1



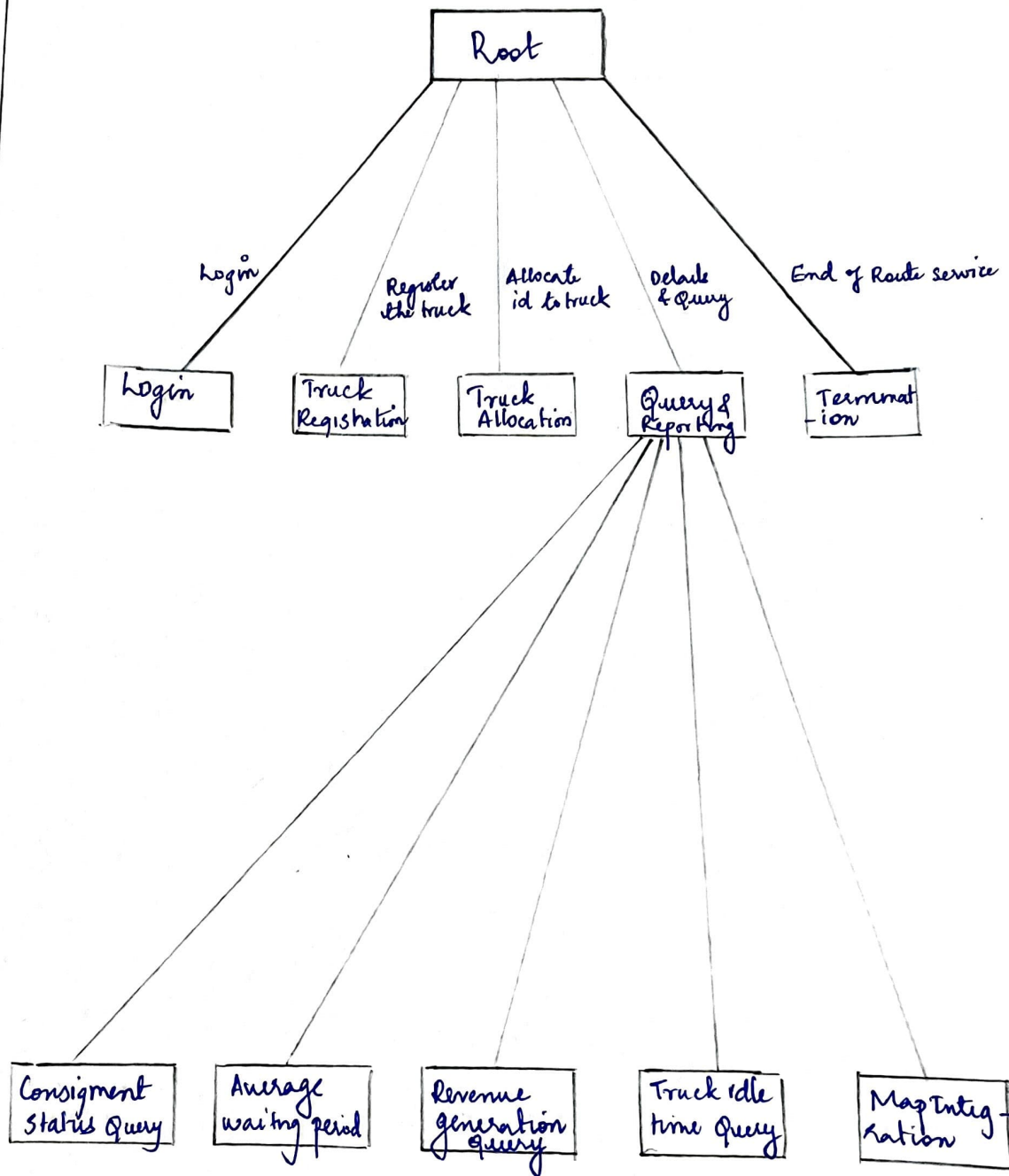
* Data flow Diagram:
level-2



Context Diagrams-



Structured Chart



Data Dictionary

- 1) Login-In Info :- Username, Password
- 2) Invalid Log-In : Message
- 3) Authentication : manager, driver
- 4) Truck entity : Truckid, Cargo volume, Branch office, Maintenance Information, Availability status.
- 5) Consignment entity : Consignmentid, volume, sender's name, sender's address, Receiver's address, receiver's name, destination address, Transport charge, status.
- 6) User Account : userid, username, password, Name, Address & contact details.
- 7) Date : Dateid, date
- 8) Destination Volume : Destination volumeid, Destination address, Total Volume, date
- 9) Average Waiting period : Average waiting period id, Consignmentid, Waiting period, date
- 10) Truck idle Time : ID, TruckID, Idle time, Date.

Sender's name: string

Receiver's name: string

Receiver's address: string

Sender's address: string

Destination address: string

Transport charge: float

Truck id: integer

Location: string

Name: string

Role: string

Status: string

Maintenance date: datetime

Office id: integer or string

Cargo Volume: Decimal.

Functional Requirements :-

1) User Registration & login

Input:- User details, login credentials (username, password)

Output: Successfully registered, successfully login, Error message
invalid login

2) Consignment Management:-

Input:- Consignment details: volume, sender details, receiver's details.

Consignment update information

Output: Consignment creation confirmation, update confirmation, invalid consignment details

3) Account Management:

Input:- User Account details

Output:- Account information update confirmation

4) Map Integration:

Input: Destination address
consignment or truck location

Output: Visual representation of destination, routes, Real-time tracking, Optimised route, truck location on the map.

Non-Functional Requirements:-

1) Performance:

The software should respond quickly & efficiently to user interaction & handle large volumes of data & concurrent user without significant delay.

2) Security:- The software should protect user data ensure confidentiality & integrity & robust.

3) Reliability:- The software should be available & reliable, minimizing downtime, handling error gracefully.

4) Scalability: The software should accommodate the future growth.

5) Usability: The software should have an intuitive, user friendly interface, require minimal training.

6) Maintainability: The software should be modular, well documented & follow coding standard to facilitate maintenance, updates & enhancement.