

## Data flow diagram

Eg:- Draw the DFD of simple coffee station.

### Steps:

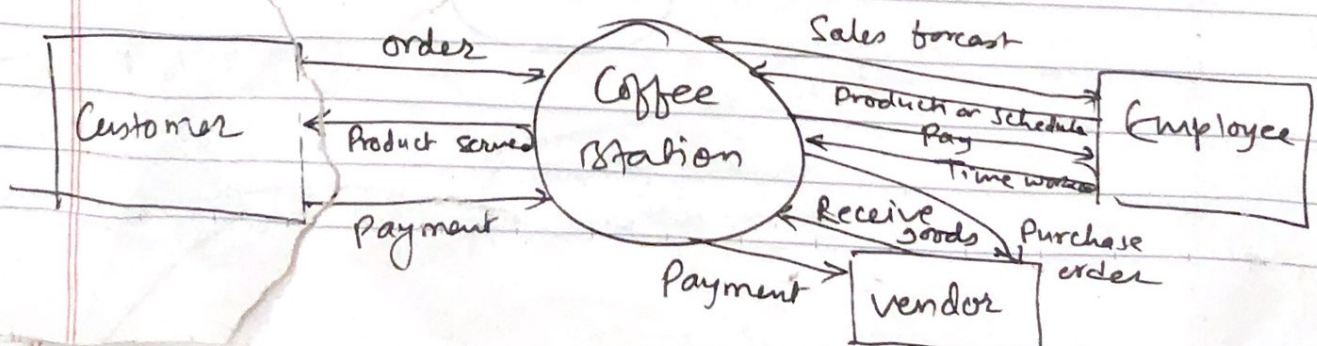
1. Create a list of activities
2. Construct Content level DFD  
(identifies source and sink)
3. Construct Level 0 DFD  
(identifies manageable sub processes)
4. Construct Level-1 DFD  
(identifies actual data flows and data stores)

External Entity → NOUN  
Data flow - names of data  
Process → verb phrase  
Data store → NOUN

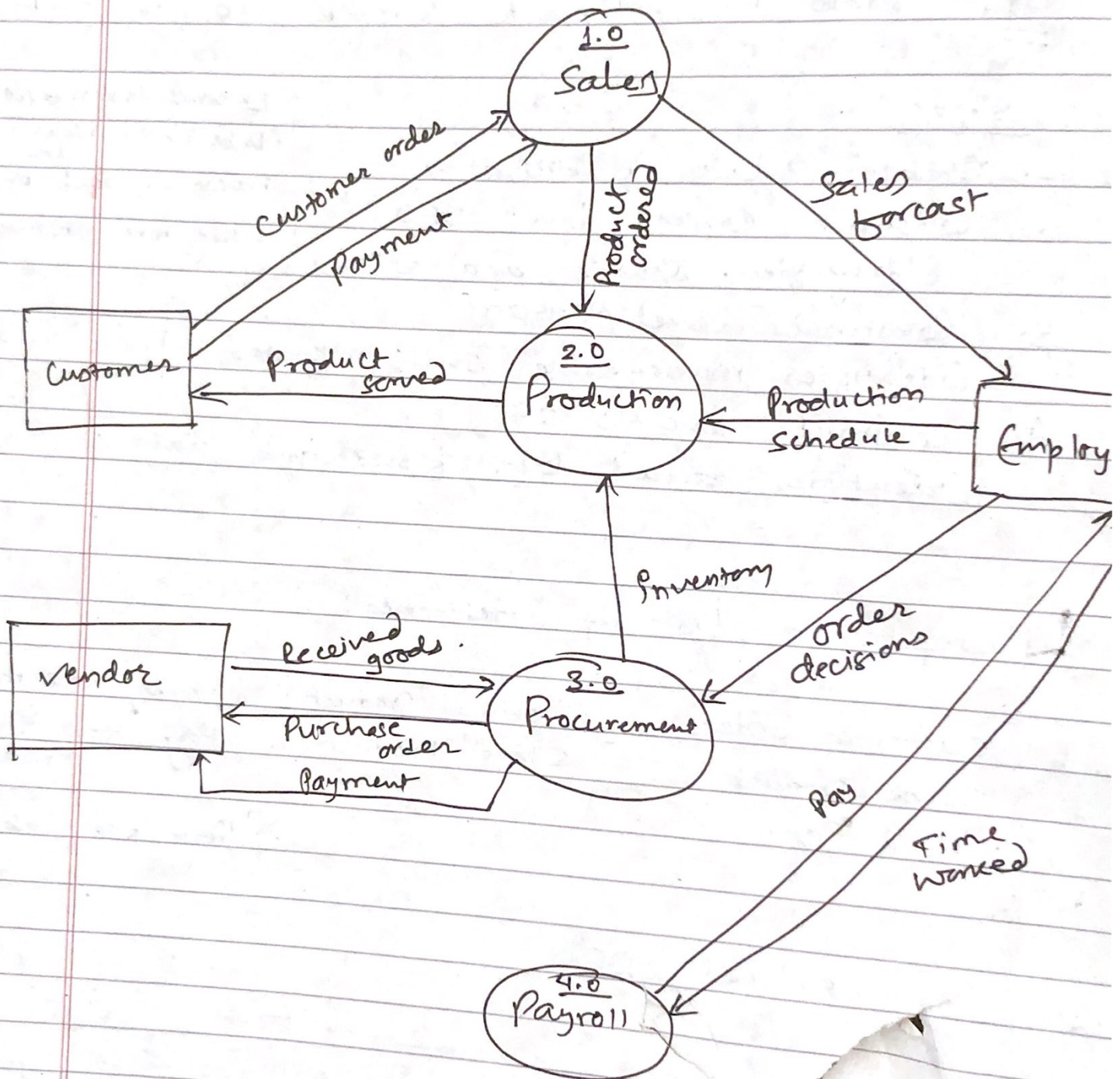
### 1. Create a list of activities:

{ Customer order Serve product Collect Payment	{ Produce product Store product	{ order Raw material Pay for Raw material Pay for Labor.
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### 2. Content level DFD



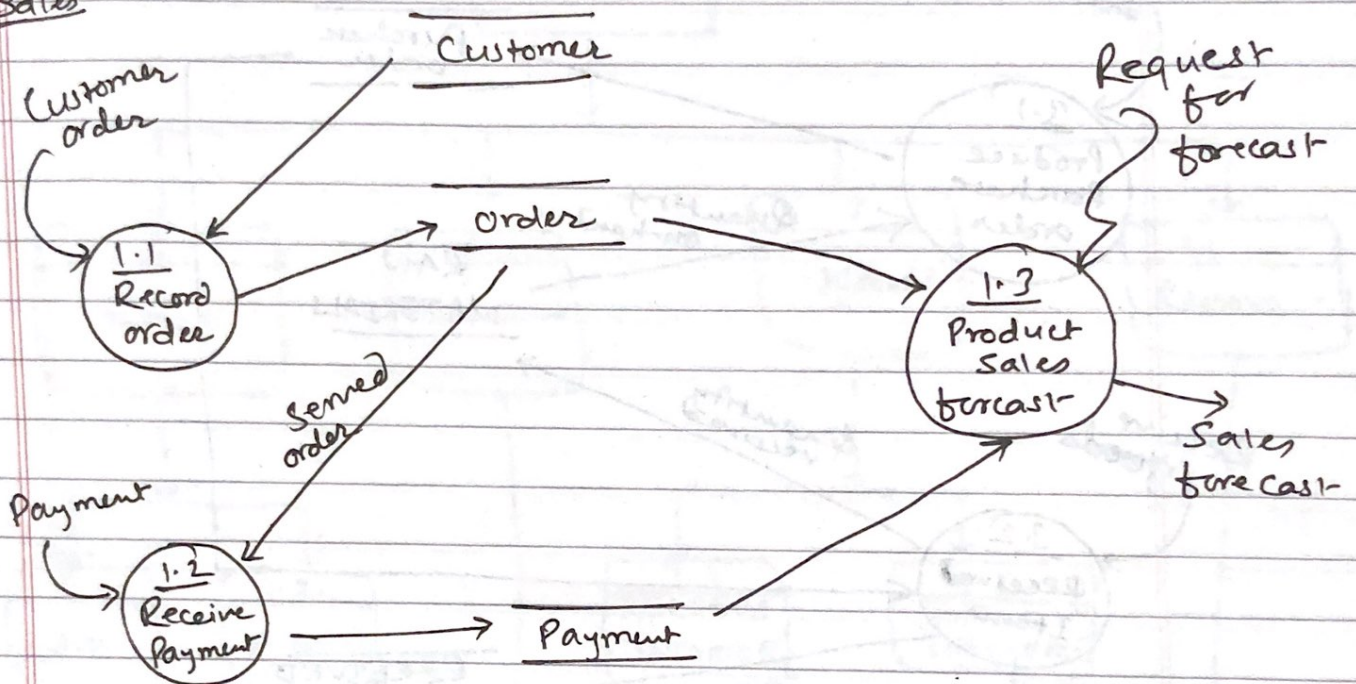
### 3. Construct level 0 DFD



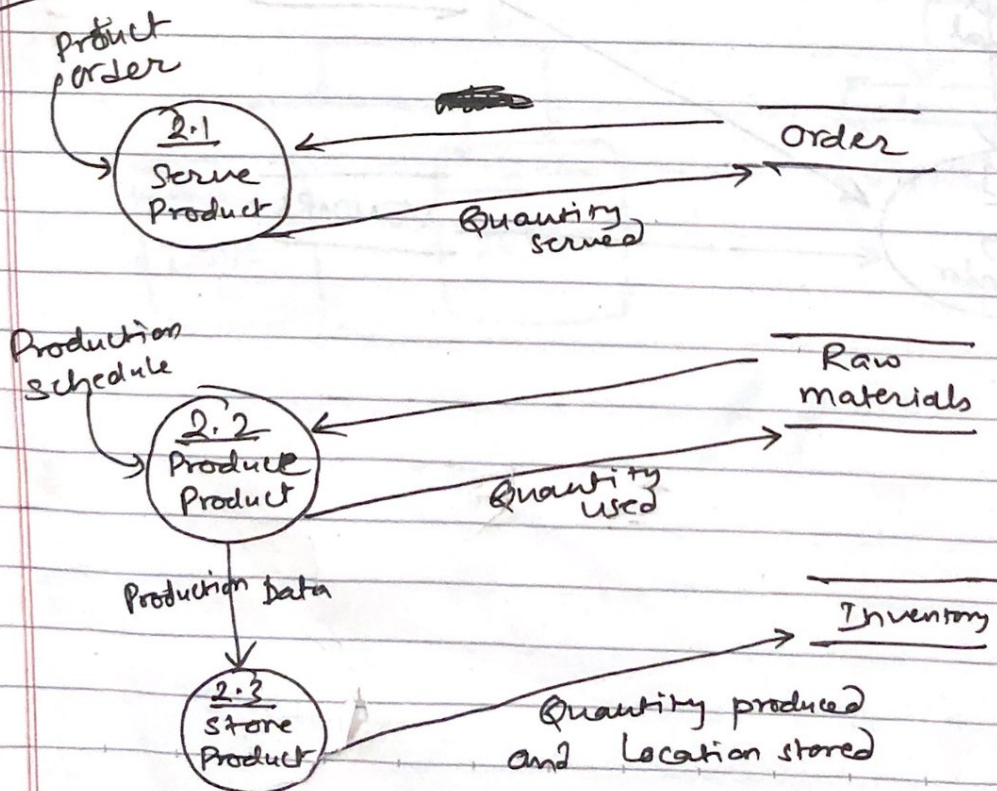


#### 4. Construct Level $\rightarrow$ 1-n DFD

##### 1. Sales



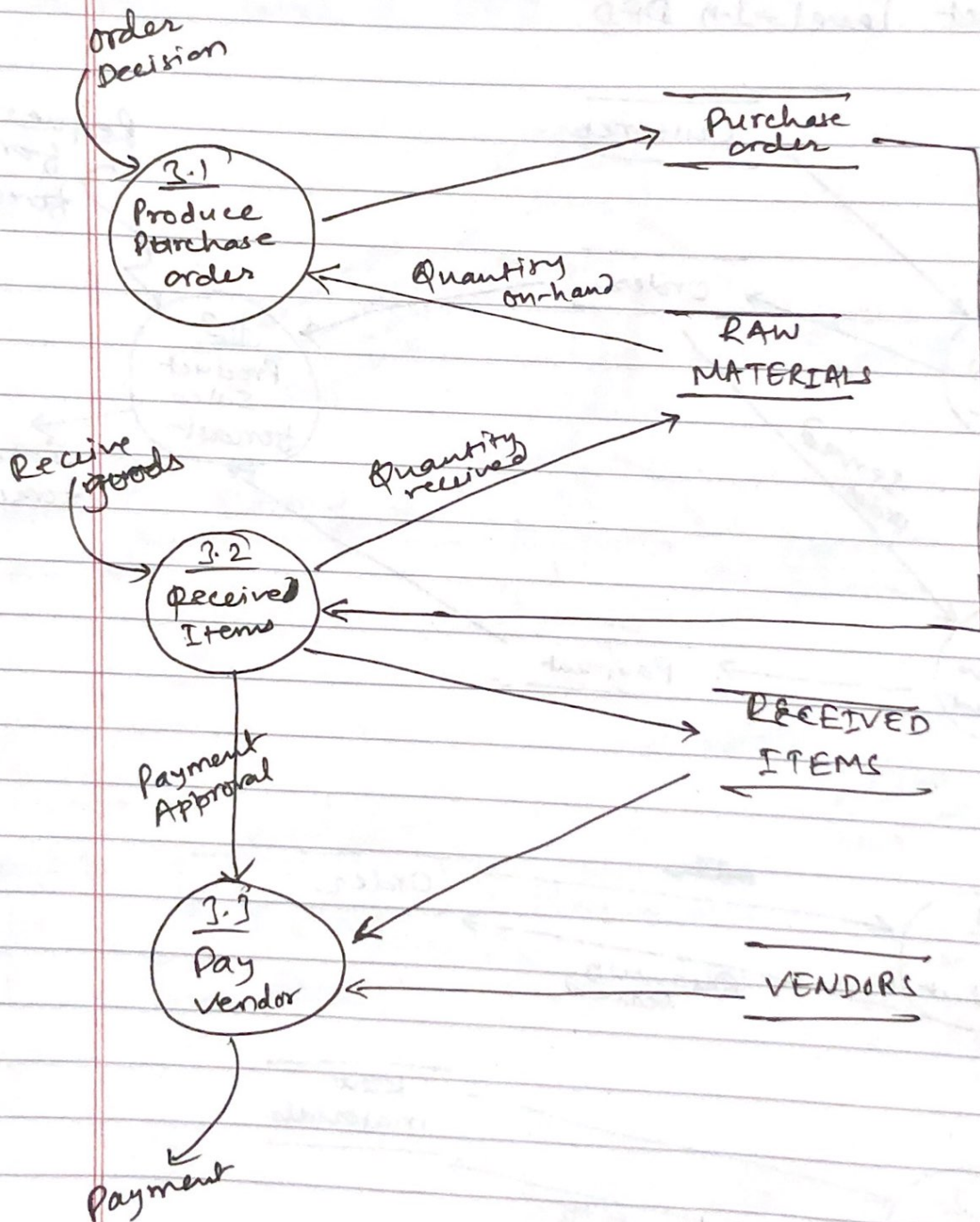
##### 2. Production



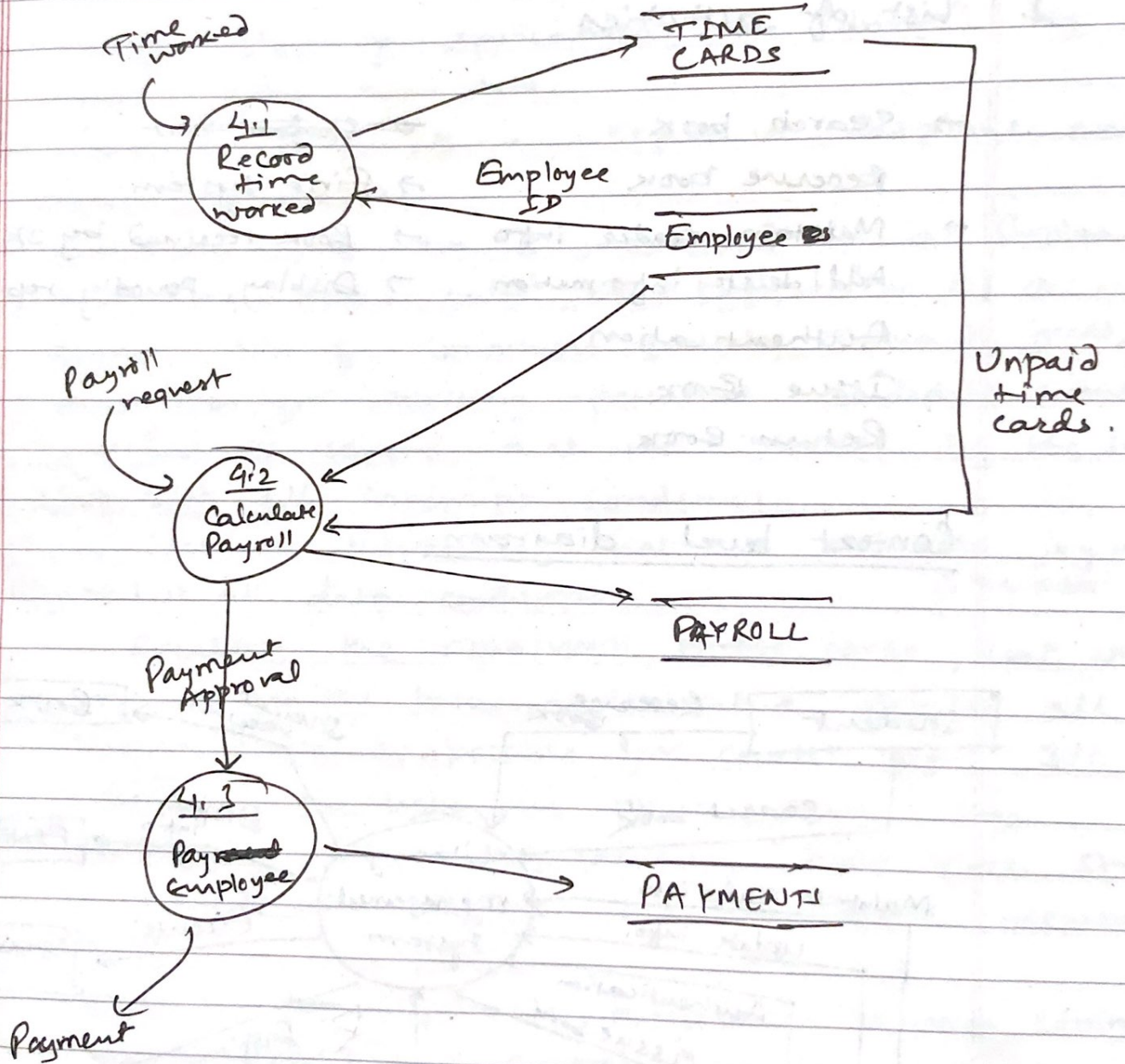
## 2. Procurement

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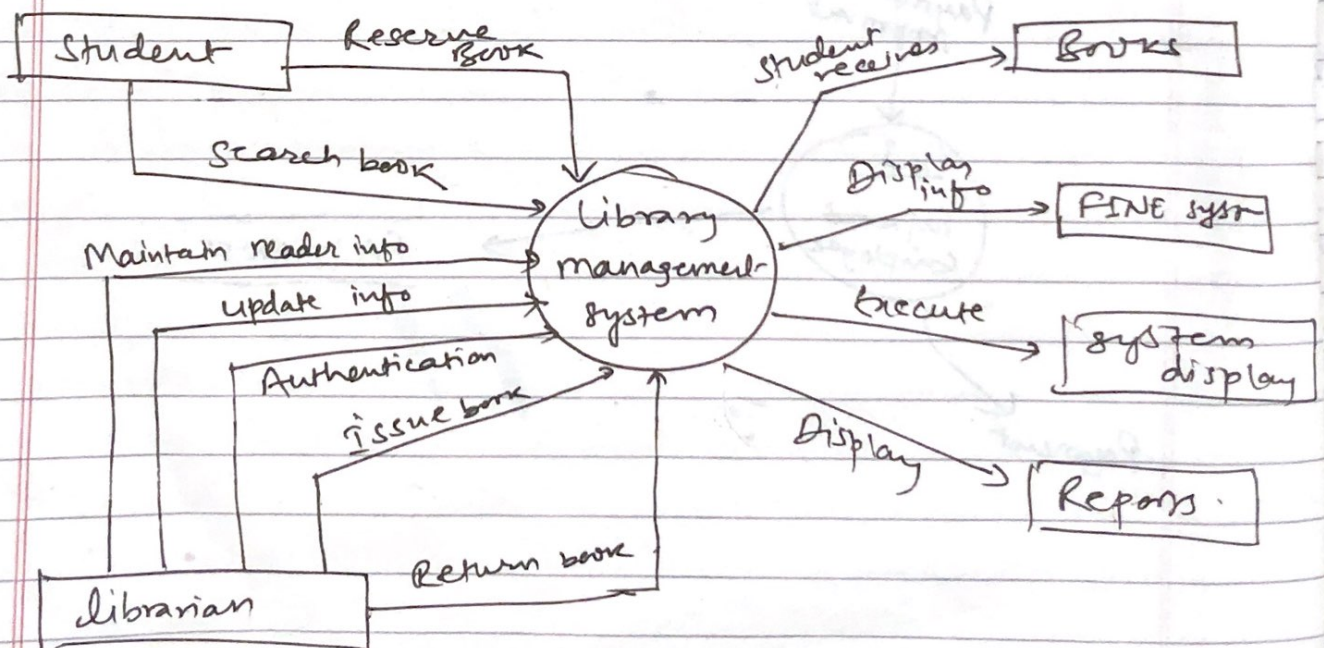
4. Payroll

## Eg 2 DFD for Library management System

### 1. List of activities

- Search book
- ~~Student ID~~
- Reserve book
- Fine system
- Maintain reader info
- Book received by student
- Add/delete information
- Display periodic report.
- Authentication
- Issue Book
- Return Book

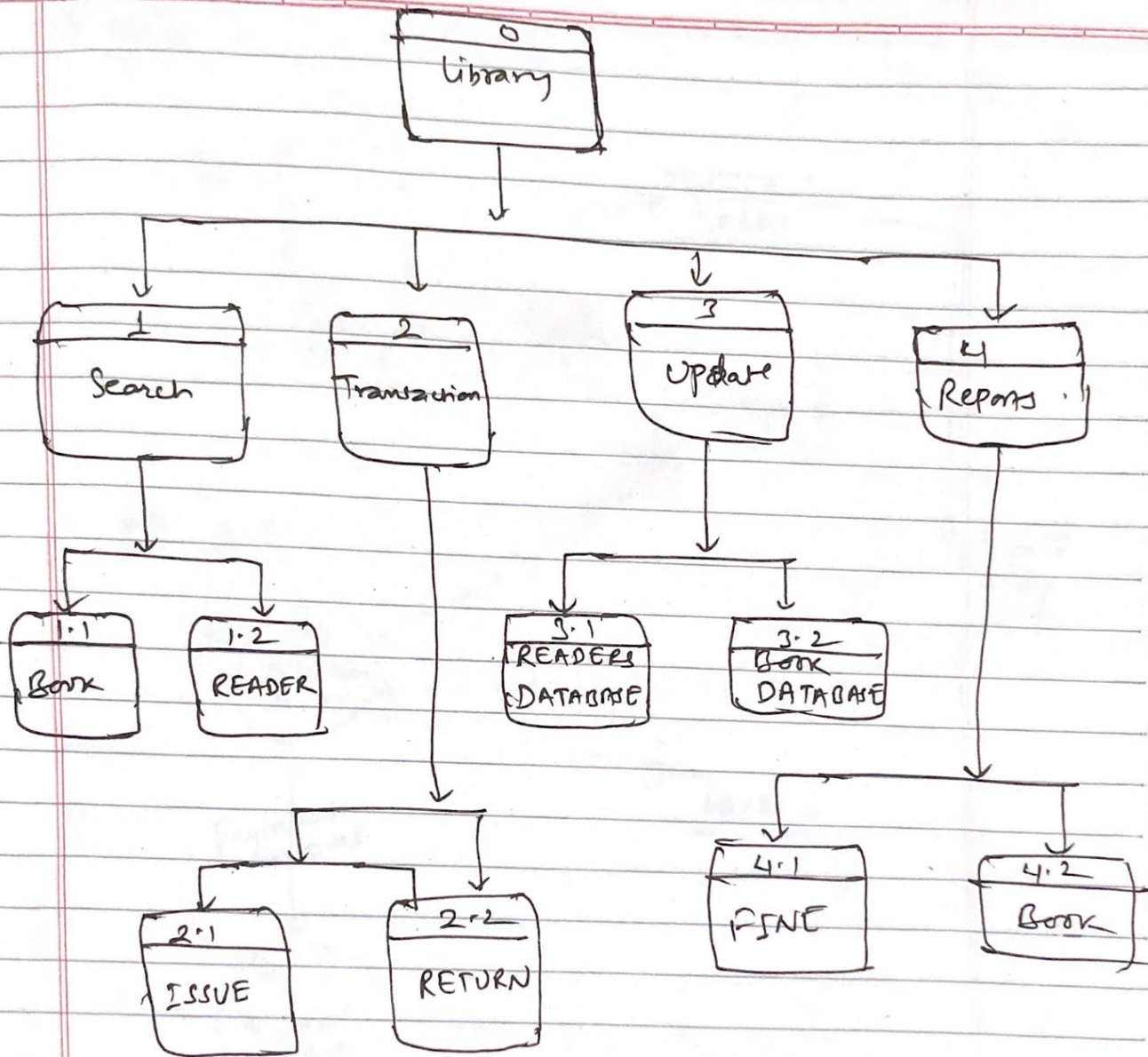
### Context level diagram





# FUNCTIONAL DECOMPOSITION

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