DBMS -> DataBase Management System

DBMS --> System that manages different DataBases

DataBase (DB's) --> Collection of inter-related data -->

Data --> information of a particular object

students		
id	name	age
1	ε	2 5
2	N	2 5

manages db --> create some data, update some data, delete data, add data

CURD --> create, update, Read, Delete

SQL --> used to query the data in database
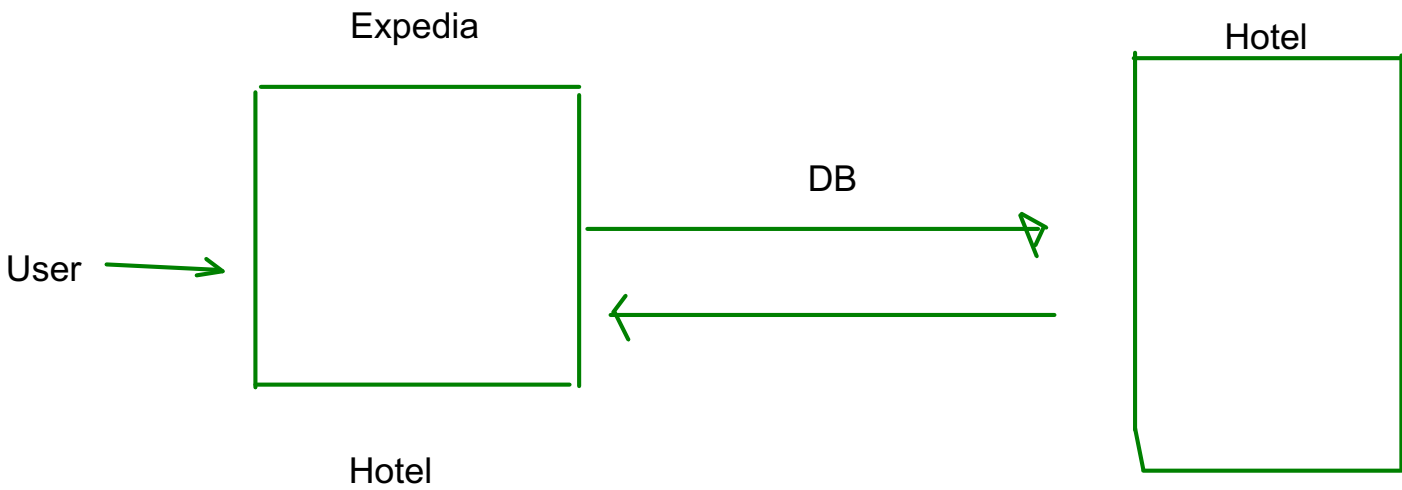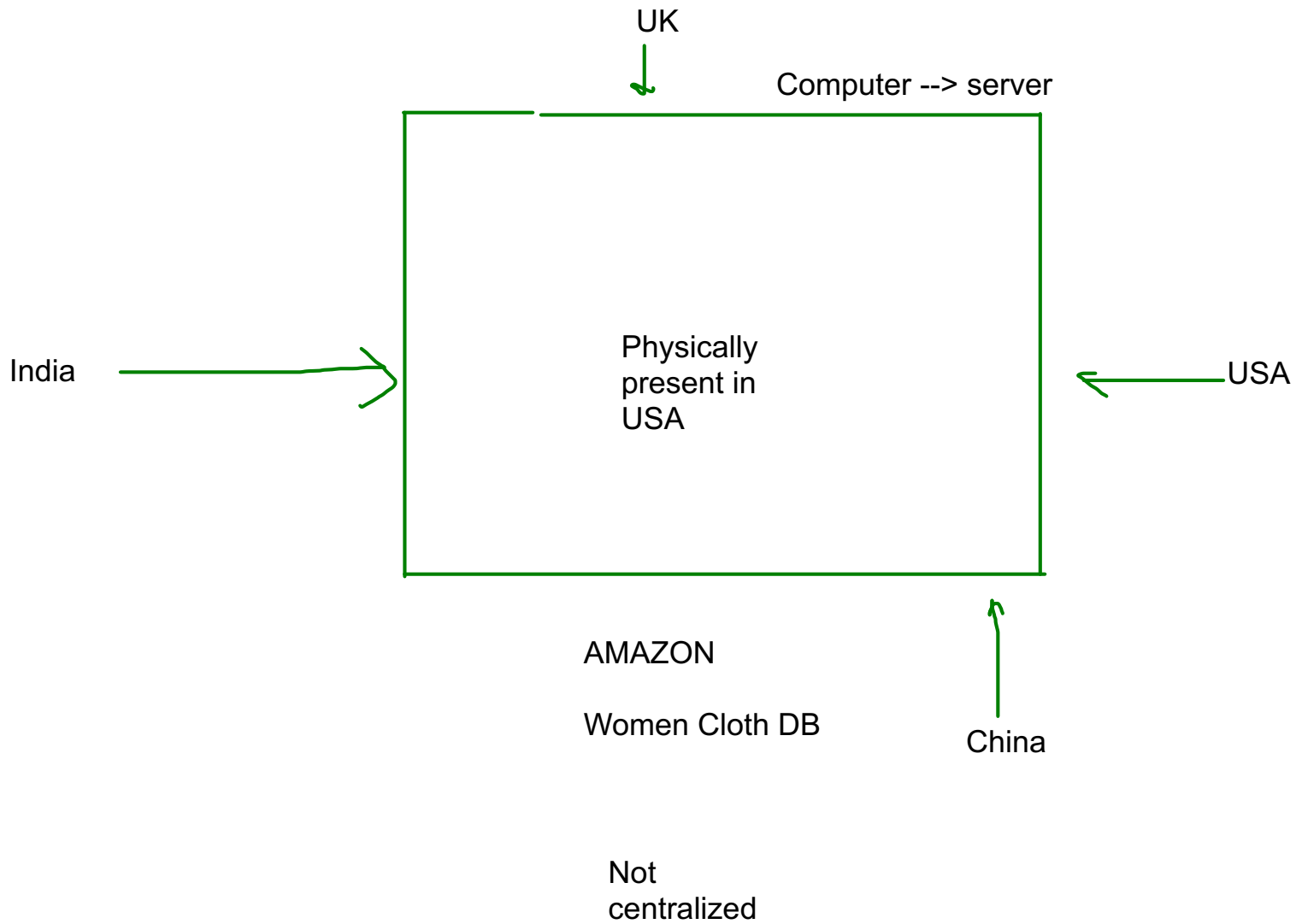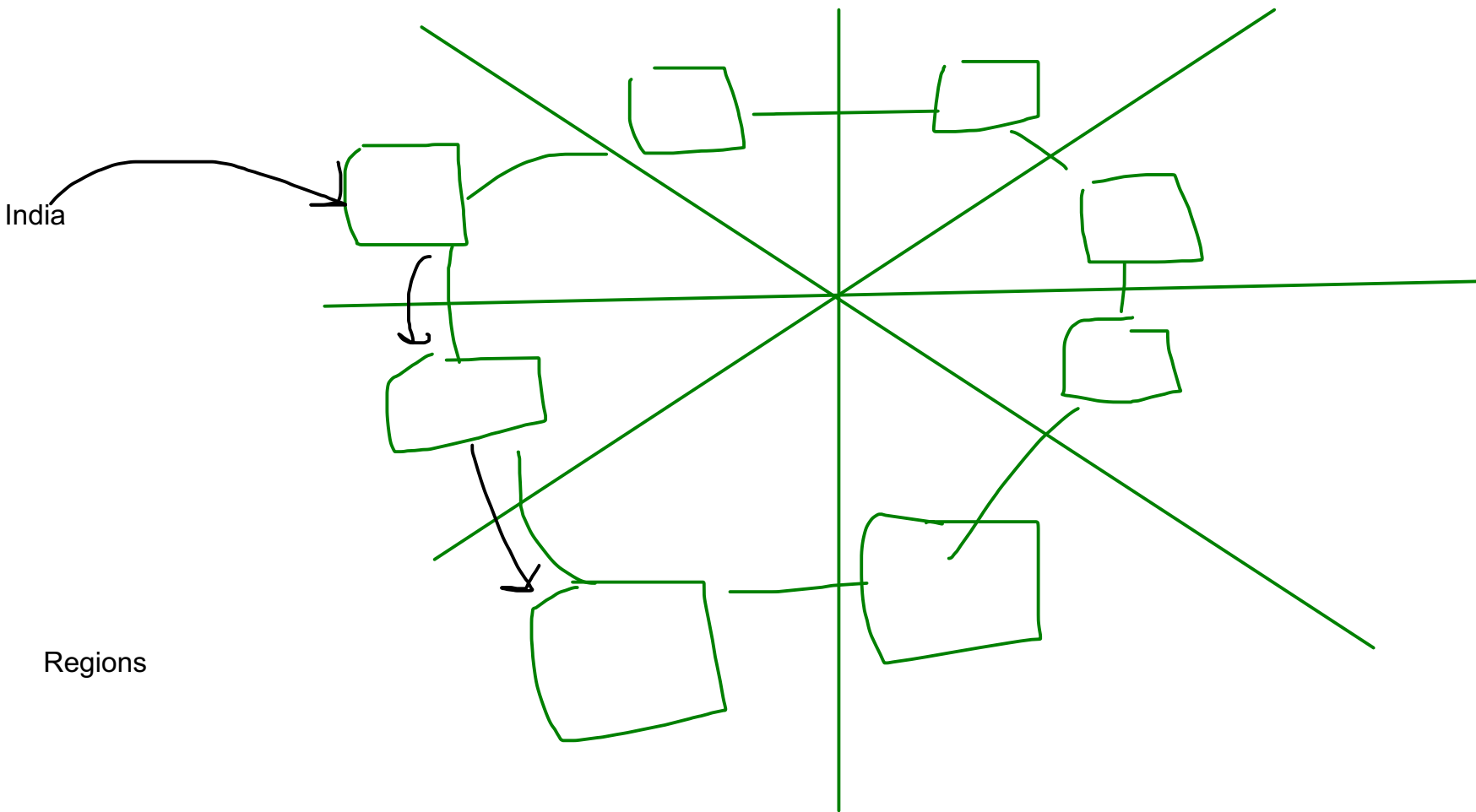
Sender

Reciever

100000

200000

1000 RS

99000

201000

Expedia

Hotel

User

DB

Hotel

UK

Computer --> server

India →

Physically
present in
USA

← USA

AMAZON

Women Cloth DB

China ↑

Not
centralized

India

Regions

CDN --> Content delivery Network

Centralized

Relational DB --> RDMS (system manages relational DB)

SQL --> query Relation DB

ACID property

students				
id		age		
1	ट	2 ऽ		
2	N	2 ऽ		

1
2

Student --> entity

row --> tuple

column --> attribute

NO SQL

sailing data --> departure date of cruise, how many nights, cabin Number, luxury room not, cruiseLine

Employee

=d			
(1) →7			

Employee Pay scale

ID	S	y o t	B
(1)			

Web Application

.

Client

Server

Backend (server)

code is
written

data

process data

raw data

User

Response --> processed data
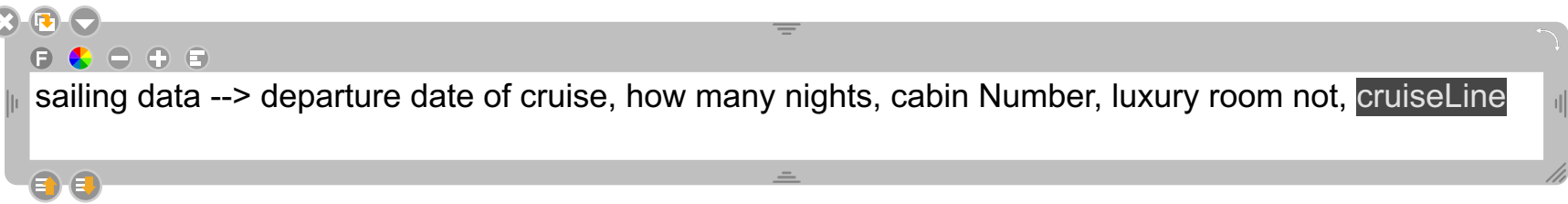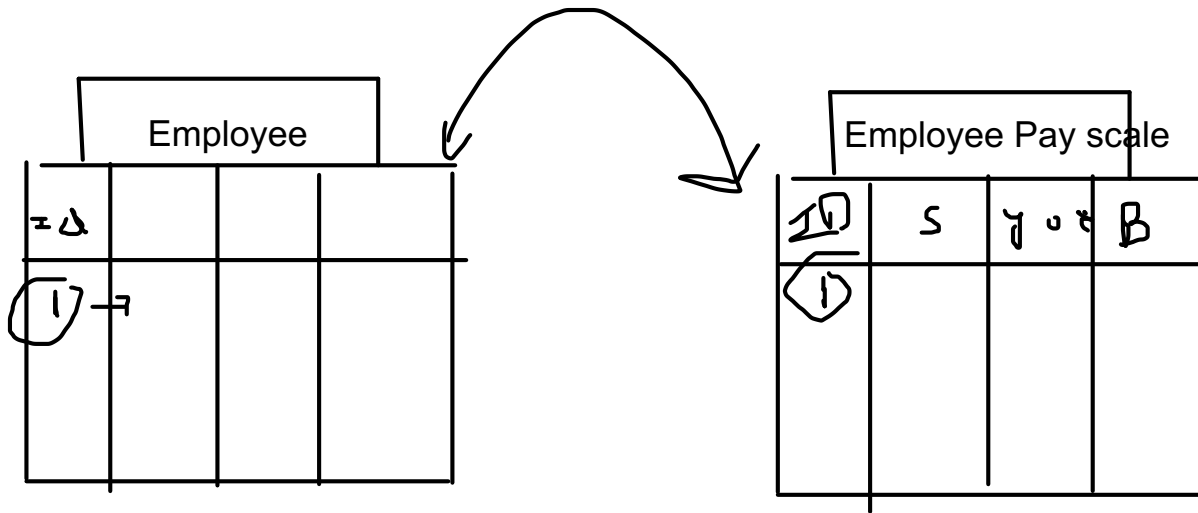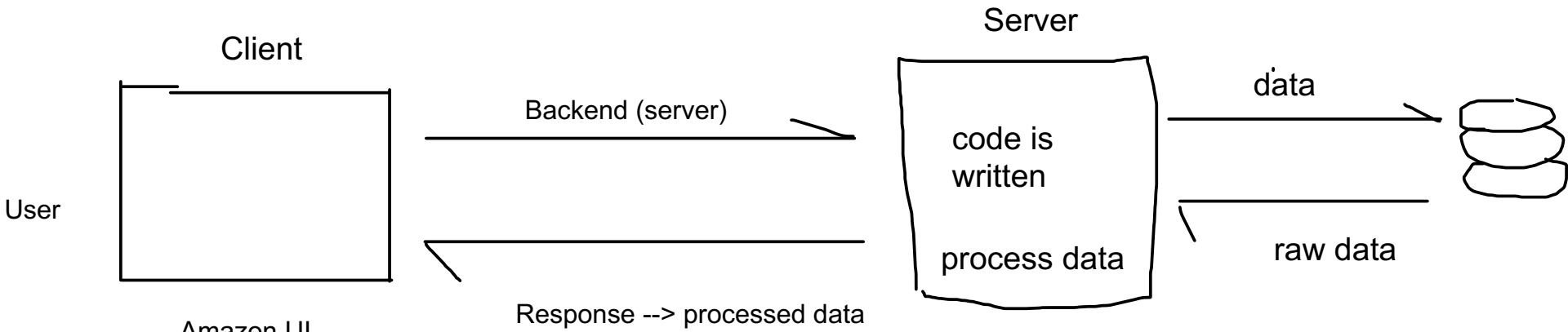
Amazon UI

amazon.com

Server

Front end

BackEnd

Code --> make UI better

Java,
Python,
Go, C#

JavaScript, HTML, CSS, React

3 tier architecture