· MML diagrams

Types In Uni dayrams.

1] Structure Diagrams.

\* class Diagram

\* Component Diagram

4 Deployment Dicigram

4 object Diagram

4 Paderage Diagram

+ Profôle Décignam

4 composite structure Diagram

3) Behandoral Diagoums

4 Use case Diciegnem

4 Activity brag nam

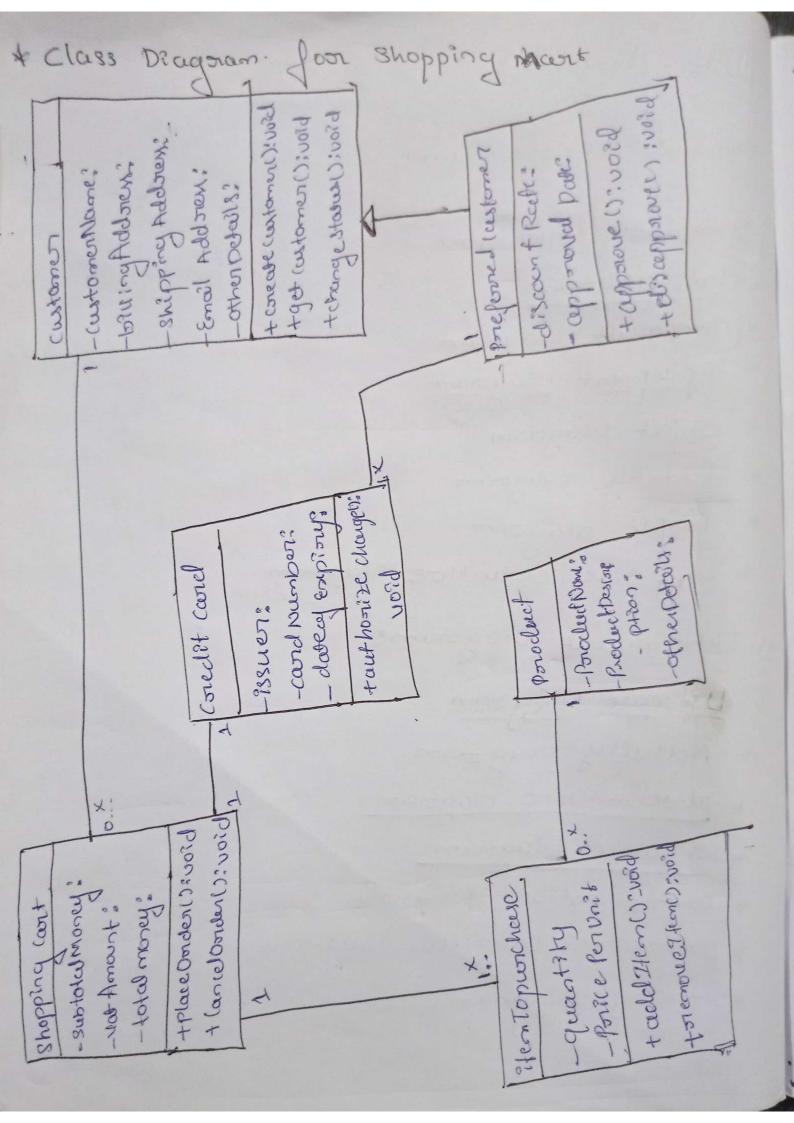
+ State machine braggian

4 Sequence Diagram

\* communication piagram

\* Interaction Overview Diagorcen

\* Timing Piagram



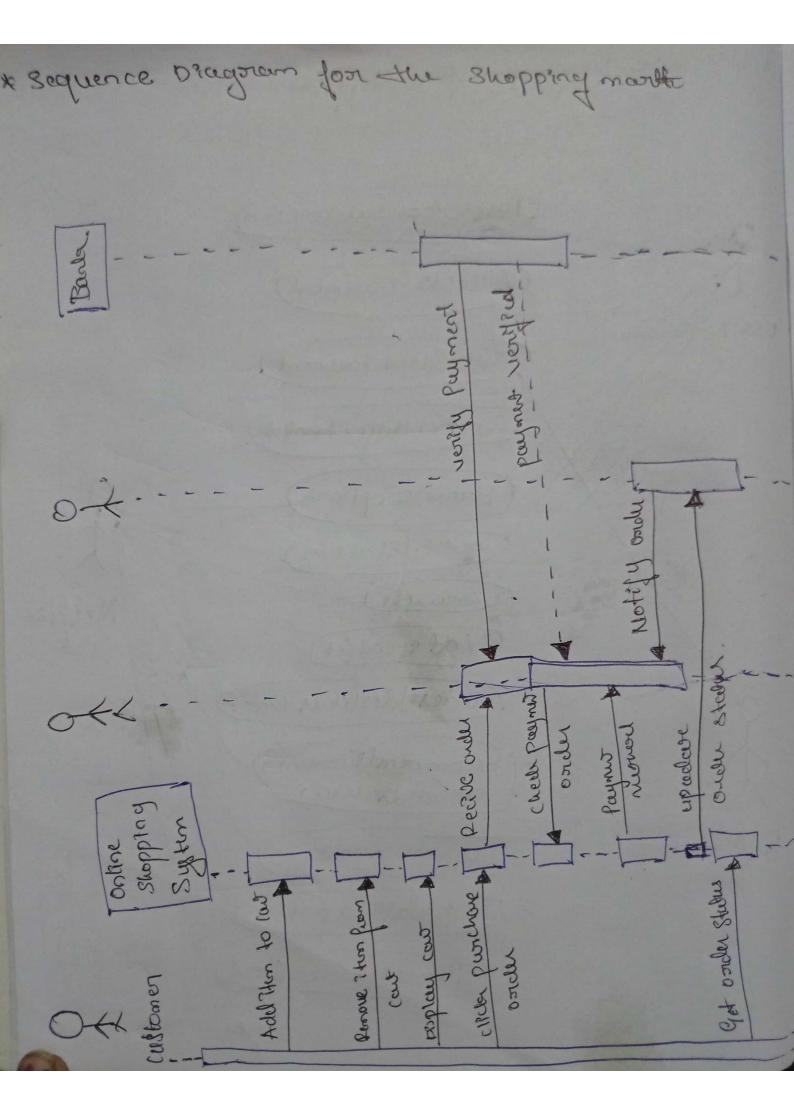
4 Use case Dragonam Jos Netflex Pars Jon subscription Accepts payment U807 Authoriter Pagnent (reader Nelley Espore) Browse options moset 81 eream Mefflix Scarch Add s to list ( likes Ides likes control Recommends Contents to other usus.

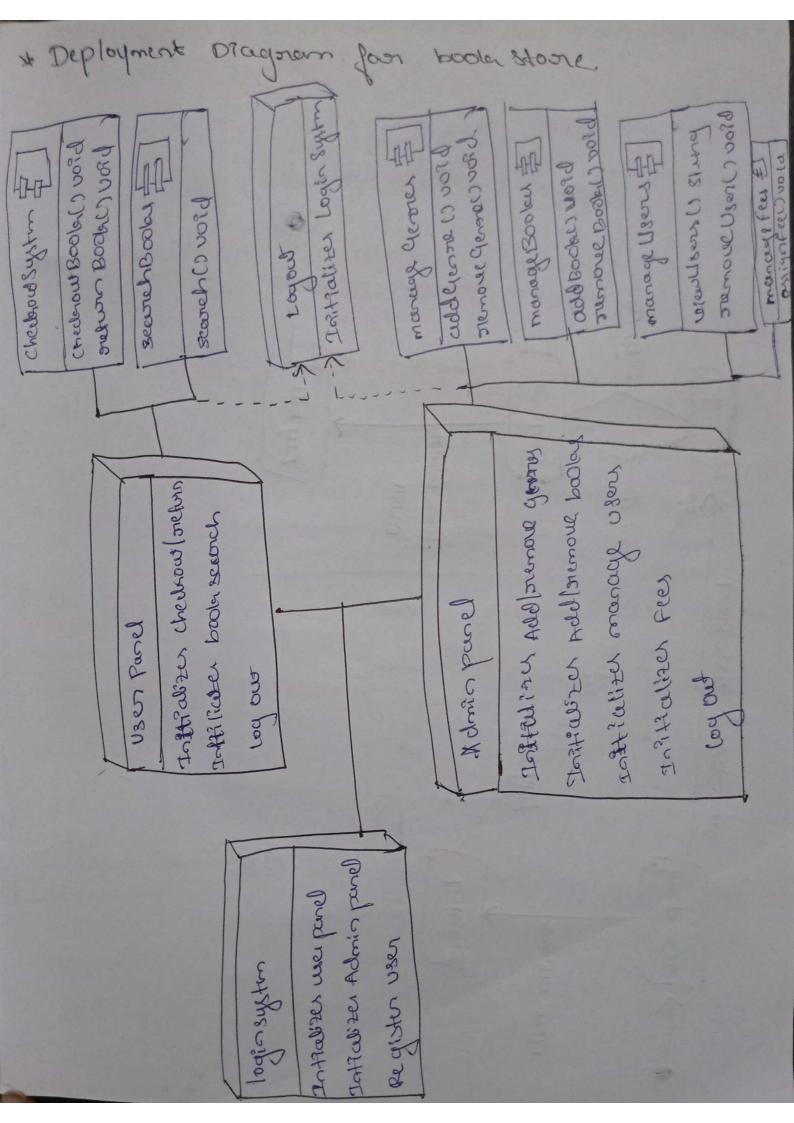
Bank

Elvero veolugy

upadases Experience

Provider services





### Noomalization

- Moomalization divides the larger table into the Smaller table and links then using relationship

Types in Morradization

- 7 INF
- 2) 2NF
- 3) 3NF
- 4) BCNF

Employ	EMP-Name	Emp-Phno.	Enf-Stare
19	John	7272826385	UP
20	Harry	8 574783832	Bihon

The decomposition of the EMPLOYEE table into INF has been shown below

Emp-50	Emp-None	Emp-Phos	Corp-stale
19	John	7272826385	OP
P	John	9069-738238	UP
20	Harry	8579783832	Binar

\*Second Moornal Foorm (2NF)

Teacher Table

Teacher?	16	Sub	Teacher-age!
25	1	Chemistry	30
25		Biology	30
77		English	35
1		1	

Too convert the given table into 2NF, we decompose it late two tables.

Teacher IP	Teacherrage } ? Teaher-Detail	
25	30 Table	
47	35	
83	38	

Teacher-8ab table

Teaher-id	Subjut
25	Chemistry!
2-5	Brotagy
97	English!

## Third Mormal Form (3NF)

estain any transitive partial dependency

3) 3NF 33 used to reduce the dute duplication, \$\forall \forall \text{salso used to achieve the dute integraty.

### Employee-Detail table:

Emp-ID	Emp-Dane	Emp-278	Sorp-Stoole	Emp-city
222	Harry	201010	UP	Noide
333	Styphan	02228	1948	B08700
499	Lan	60007	US	chicago
555	butharine	.06389	Vla	Norcoich
666	John	462007	mp	Bhopcel

#### Employee table

	a arrive 1	Emp-2ip.
[emp-id]	Emp-Nand	1 1
222	Harry	201010
333	Stephan	02228
999	Lan	60007
555	leatherine	06389
666	Sohn	462007

Employee-22p table:

1 1		V
Emp-zip	Emp-State	Emp-cety
201010	UP	Nordal
02222	US	Boston
60007	U3	chicago
06389	ula	poswich
462007	mp	Bhopce

# Boyce codd nomal form (BCNF)

=> BCDF 93 Athe adounce version of 3NF = it is Stricter than 3NF

=> FOR BCNF, the table should be in 3NF, and for Every FD, Ltrs is supervery

Employee	table
	-

	1-1	pont tupo	Cap-cepting
emp-country	Emp dept	reprise.	1 4779
	Designing	0399	283
		D399	360
Like		D283	232
Ola	210010		599
Uka	Developing	D283	
		India Designing India Testing Ula Stories	India Designing Daya India Testing Daya Ula Stones D283

Emp-country teeble.

2 1 1000 1	comp Deptaron
Dept-type	1 /
D397	283
D399	300
D283	232
D283	549
	D399 D283

Emp-Dept-neypping table

Earp-id	Comp-dept
D299	213
0399	300
0283	232
D283	1 599