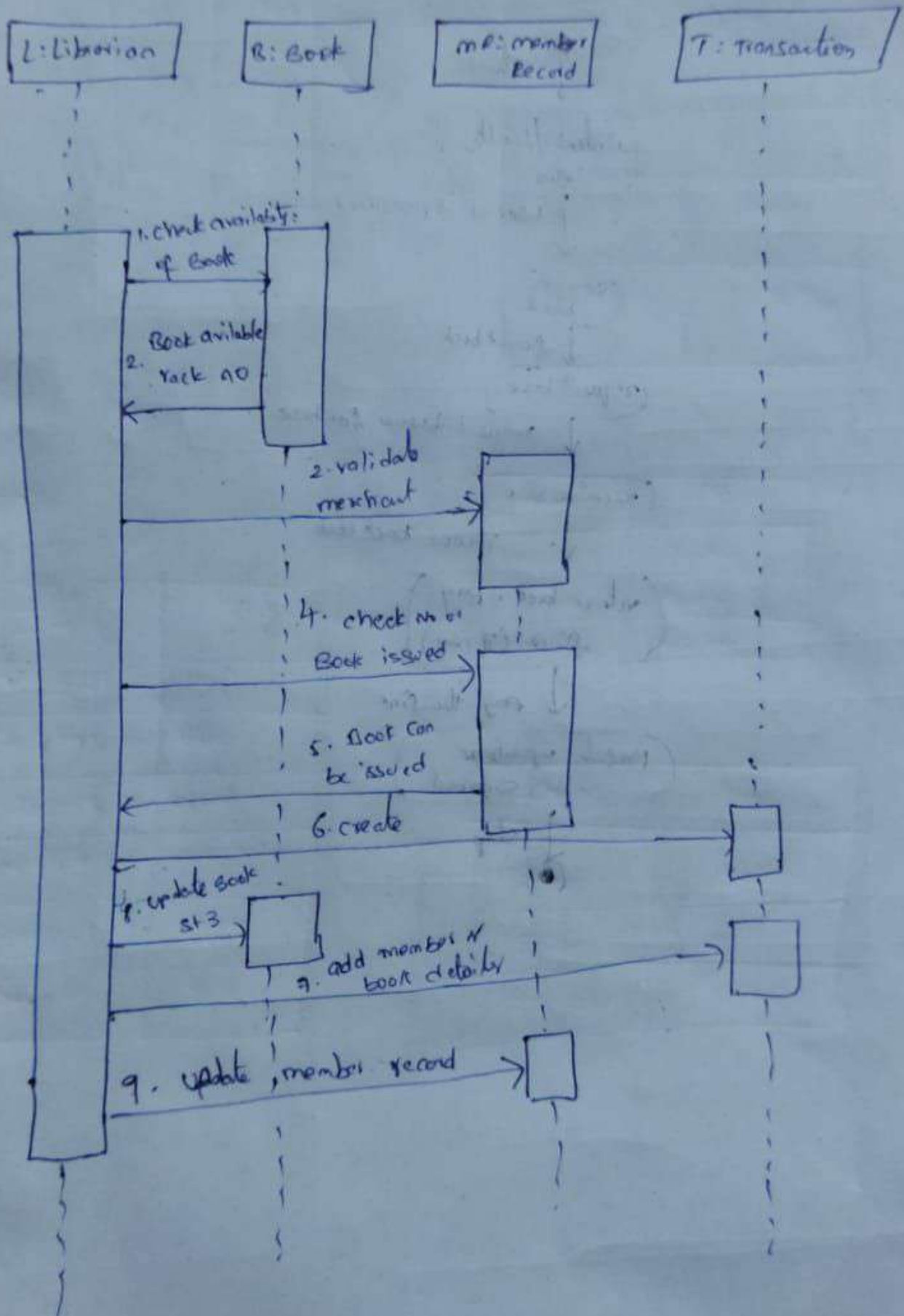
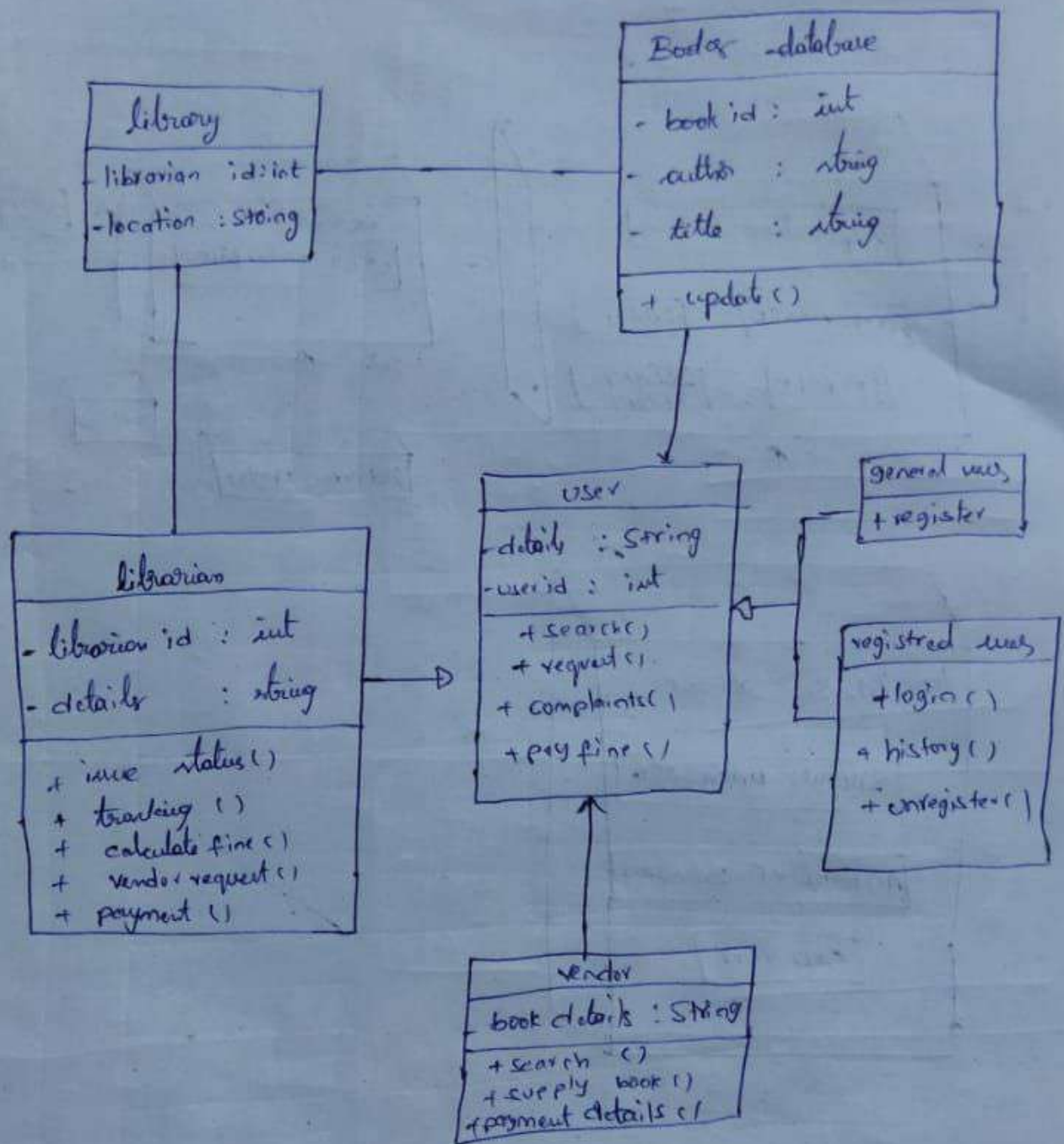


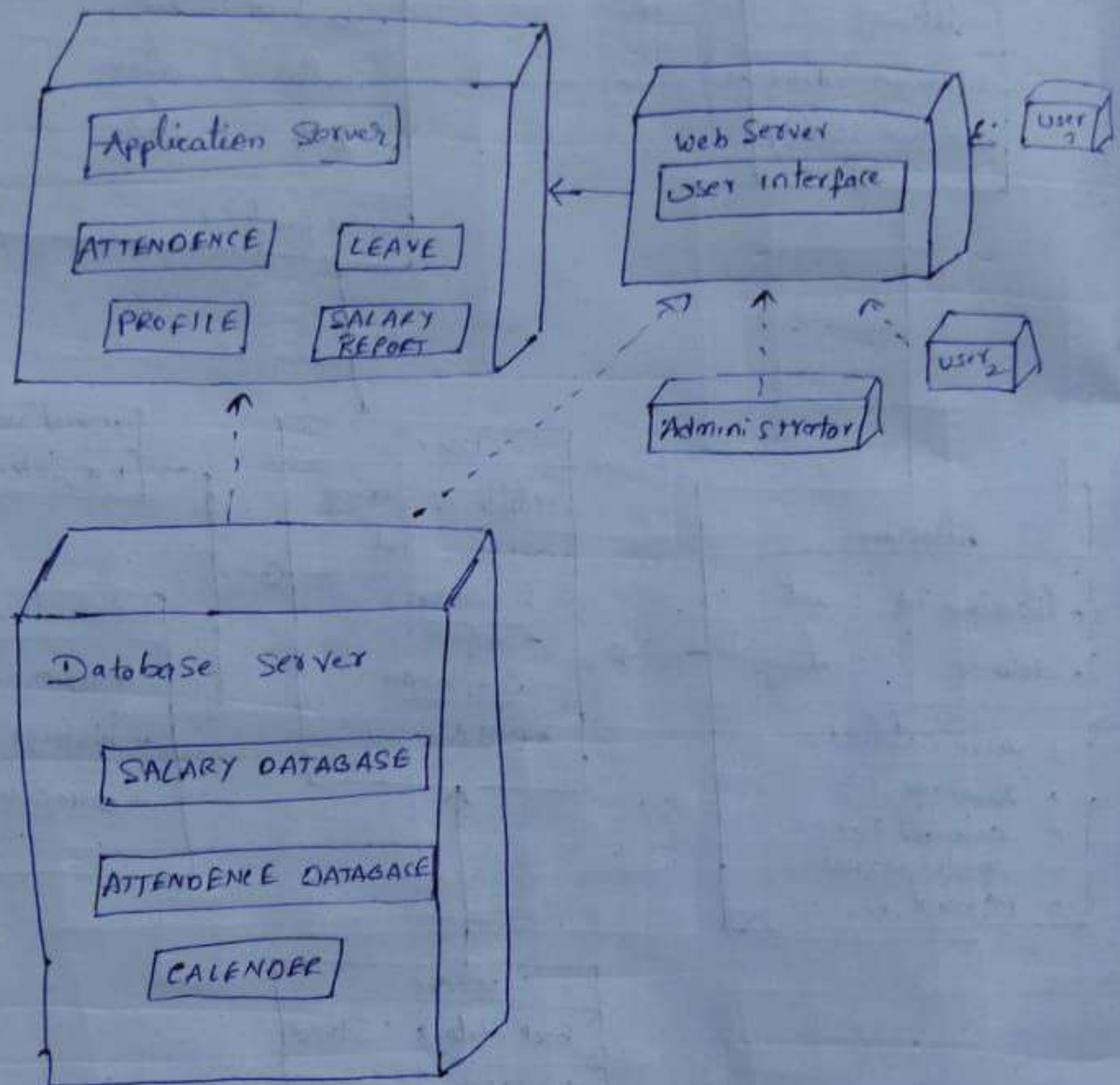
Sequence diagram for library management system:



⇒ Class diagram for library management system:



Deployment diagram for staff management system:-



Normalization: (1NF, 2NF, 3NF)

1NF:

Ex:-

Item	colour	price	tax
T-Shirt	red, blue	12.00	0.60
Jeans	black, white	16.00	1.00
Sweat Shirt	grey, yellow	25.00	1.25

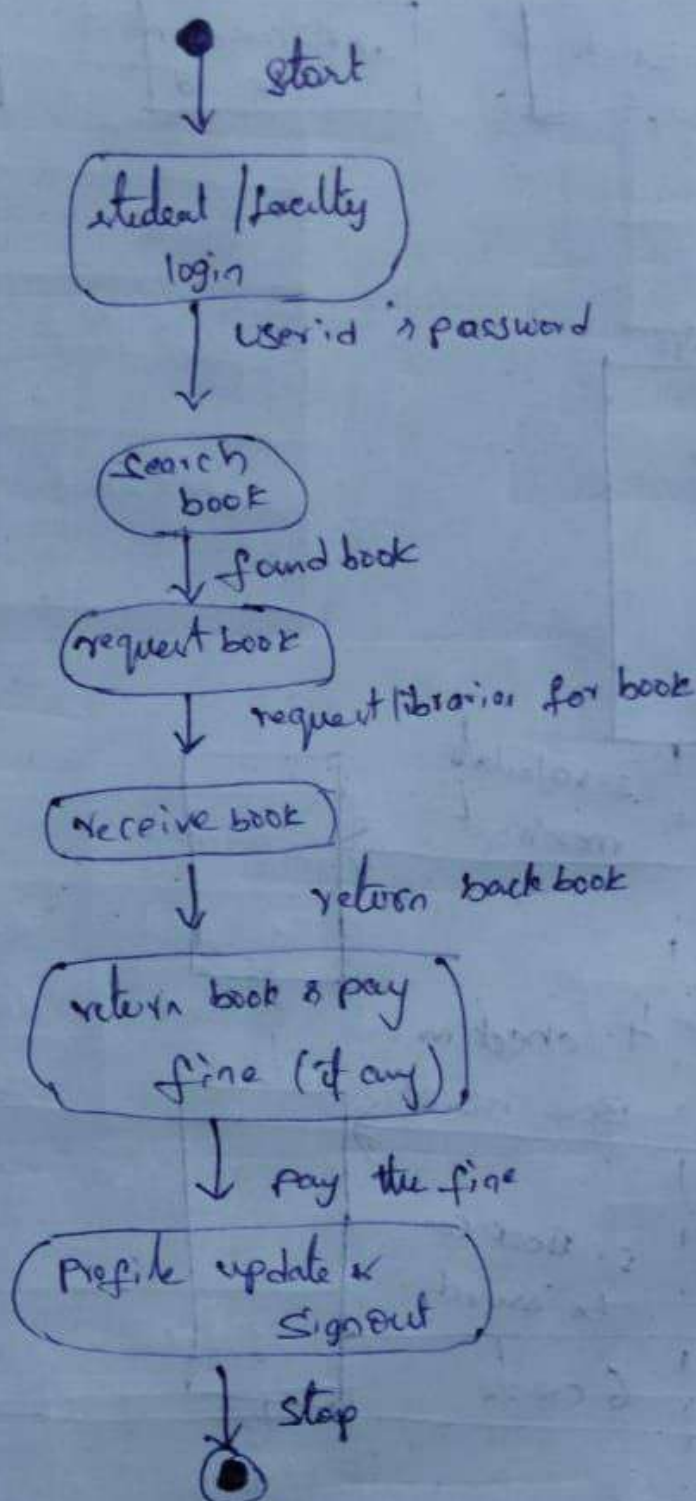
1NF (first Normal form):

Item	colour	price	tax
T-Shirt	red	12.00	0.60
T-Shirt	blue	12.00	0.60
Jeans	black	16.00	1.00
Jeans	white	16.00	1.00
Sweat Shirt	grey	25.00	1.25
Sweat Shirt	yellow	25.00	1.25

2NF (second Normal form):

Item	price	tax	colour
T-Shirt	12.00	0.60	red
T-Shirt	12.00	0.60	blue
Jeans	16.00	1.00	black
Jeans	16.00	1.00	white
Sweat Shirt	25.00	1.25	grey
Sweat Shirt	25.00	1.25	yellow

State chart diagram for library management system:



2NF form

Item	price	tax
T-shirt	12.00	0.60
Jeans	16.00	0.75
Sweatshirt	25.00	1.25

Item	Color
T-shirt	red
T-shirt	blue
Jeans	black
Jeans	white
Sweatshirt	Gray
Sweatshirt	Yellow

3NF:

Item	color
T-shirt	red
T-shirt	blue
Jeans	black
Jeans	white
Sweatshirt	Gray
Sweatshirt	Yellow

Item	Price
T-shirt	12.00
Jeans	16.00
Sweatshirt	25.00

Price	tax
12.00	0.60
16.00	0.75
25.00	1.25