

Course Code : CSE 404

Course Title : Software Engineering and ISD Laboratory

Project name: Bus ticket booking management system

Experiment no: 04(b)

Experiment name: UML Modeling of your Project: Use case diagrams, Class diagrams, Sequence diagrams, Activity diagrams, DFDs

Submitted To

Dr. Mohammad Zahidur Rahman

Professor

Dr. Md. Humayun Kabir

Professor

Department of Computer Science & Engineering Jahangirnagar University, Savar.

Group No : 02

Group members :

Sl	Class Roll	Name
01	342	Tama Shil
02	370	Prokash Maitra
03	374	Mubasher adnan jihad
04	375	Pritam Saha

Name's Mulasher Adnan Jihad Roll 0 374

Actori: Customerr, Admin

scenarcio:

· customer will login into system.

· Customer will register into system.

· Admin will Login into system.

Exception: Login page not found

Priecondition: Login page from web browser

Post condition:

· Successful Login · Unsuccessful Login

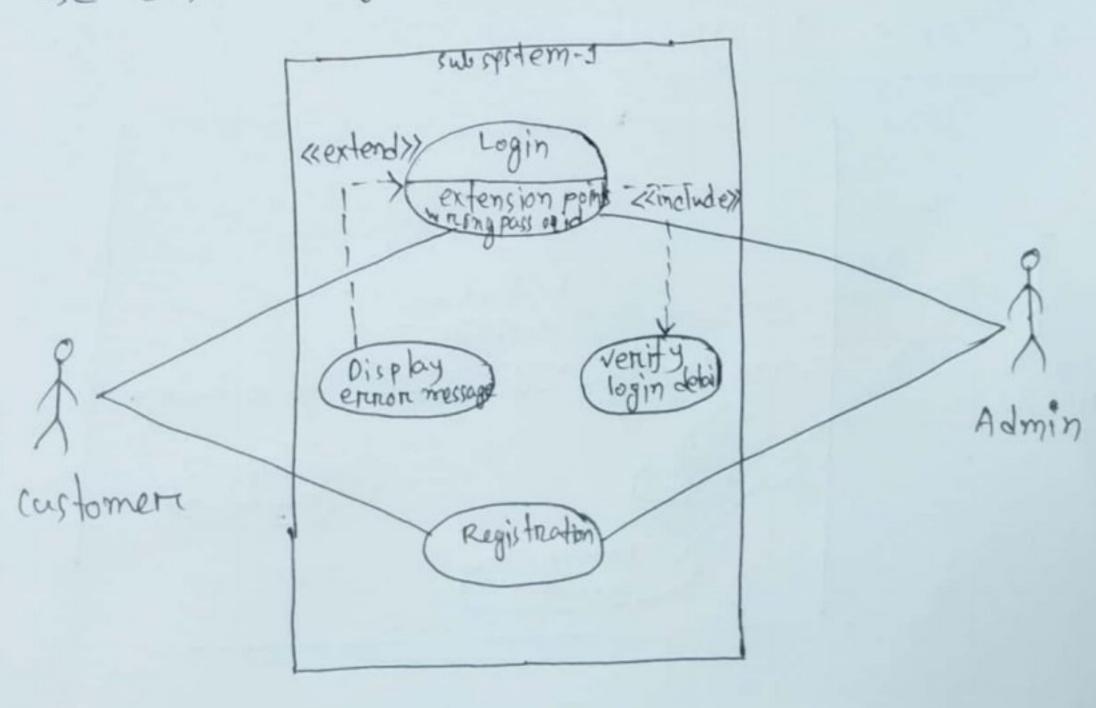
· Page not found

Use cose relation.

1. Include

2. Extends

use case diagram à



subsystem-2

Actorio Customera, Admin.

· Customer will do the reservation of buses.

each other.

· Customen will do payment.

Exceptions wrong customer information

Precondition: Only registered customer con reserve ticket.

Post conditions only registered customers com reserve

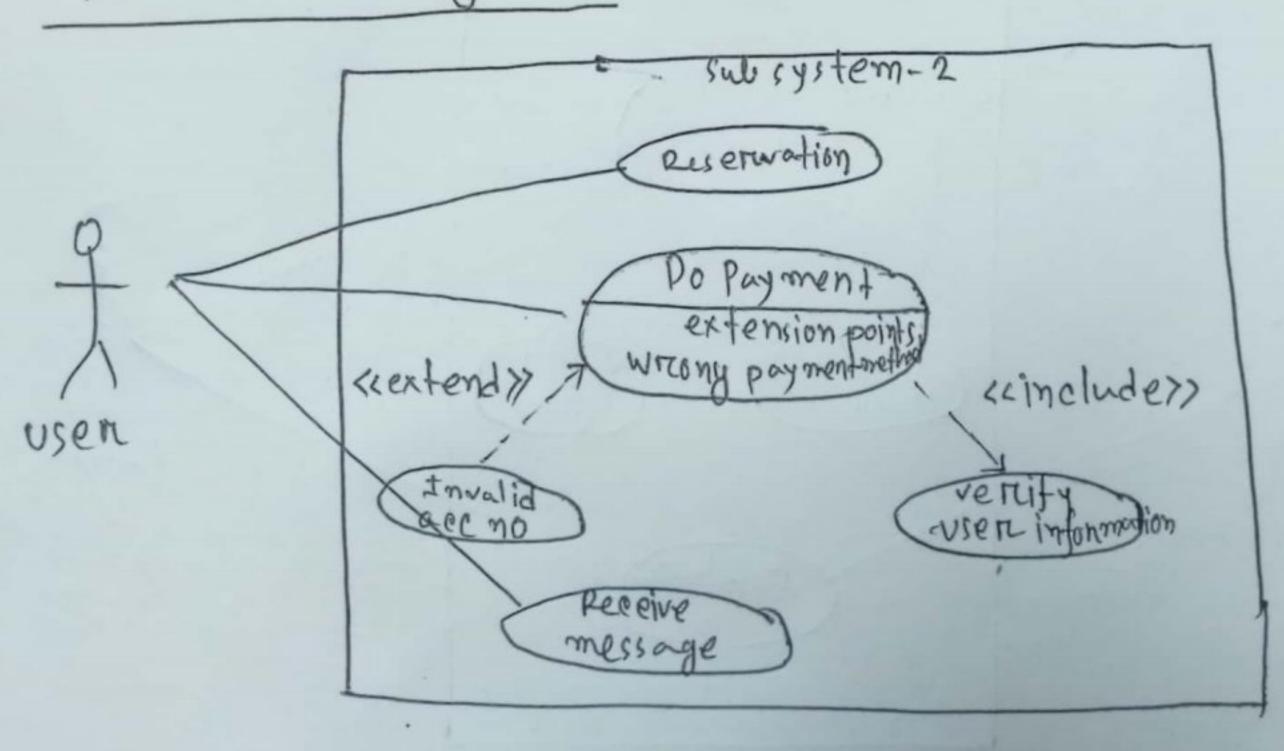
e Wistomer will get a confirmation notification.

use case relation.

1. Include.

2. Extends.

use cose Diagrams



Name! Pritam Saha

ID: 375

Subsystem-3

Actorc: Admin

scenatio !

- · Admin will add bus details.
- · Admin will input pickup points of all buses so that customer can select pickup points.
- name so that these information can be provided to the costomer.

Exception: Web page not found.

Procondition:

· lickup points must be set accerding to pickup point and time.

Posteondition:

- one 605.
- tacte at a same time.

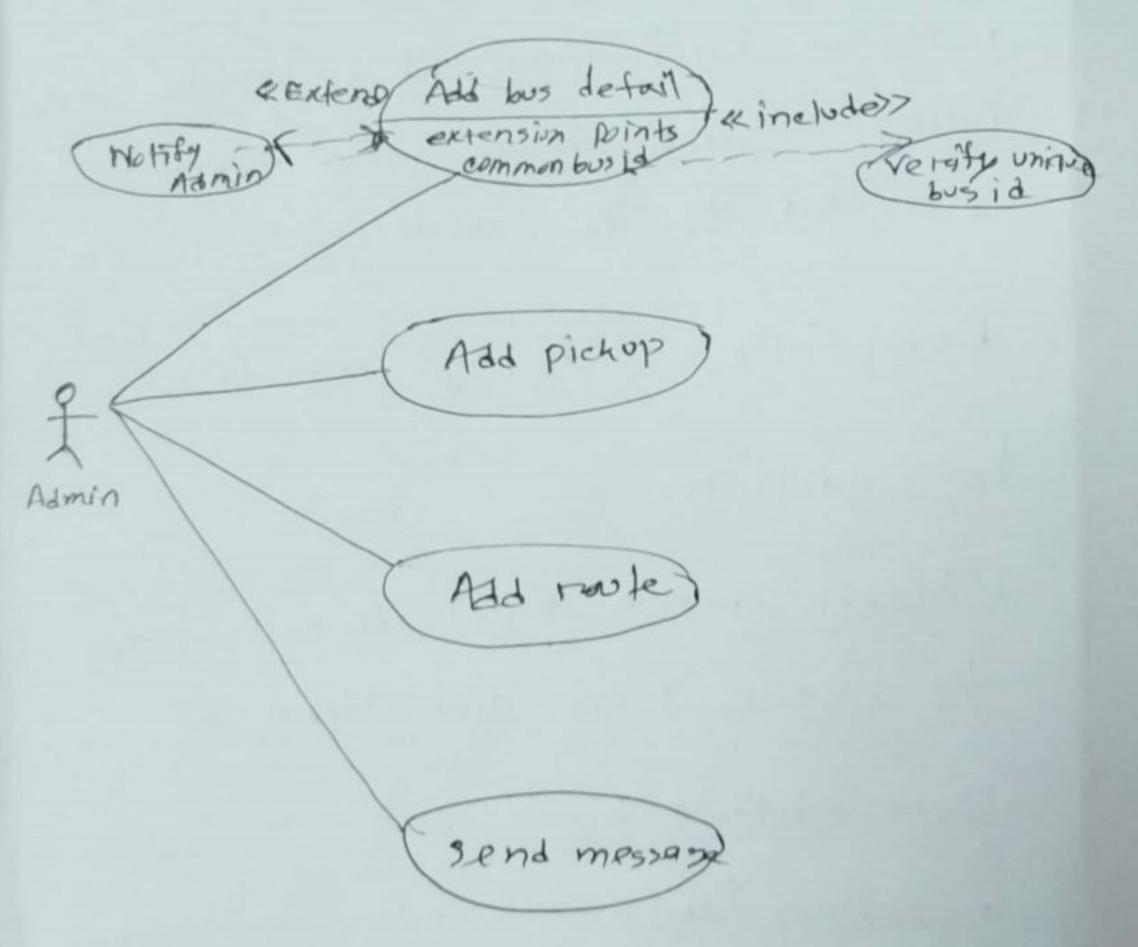
Use case Relation:

1. Include trolation in pickup point about selecting unique time for one bus at a time.

2. Extend relation for notifying about the collison of bus.

Use case diagram:

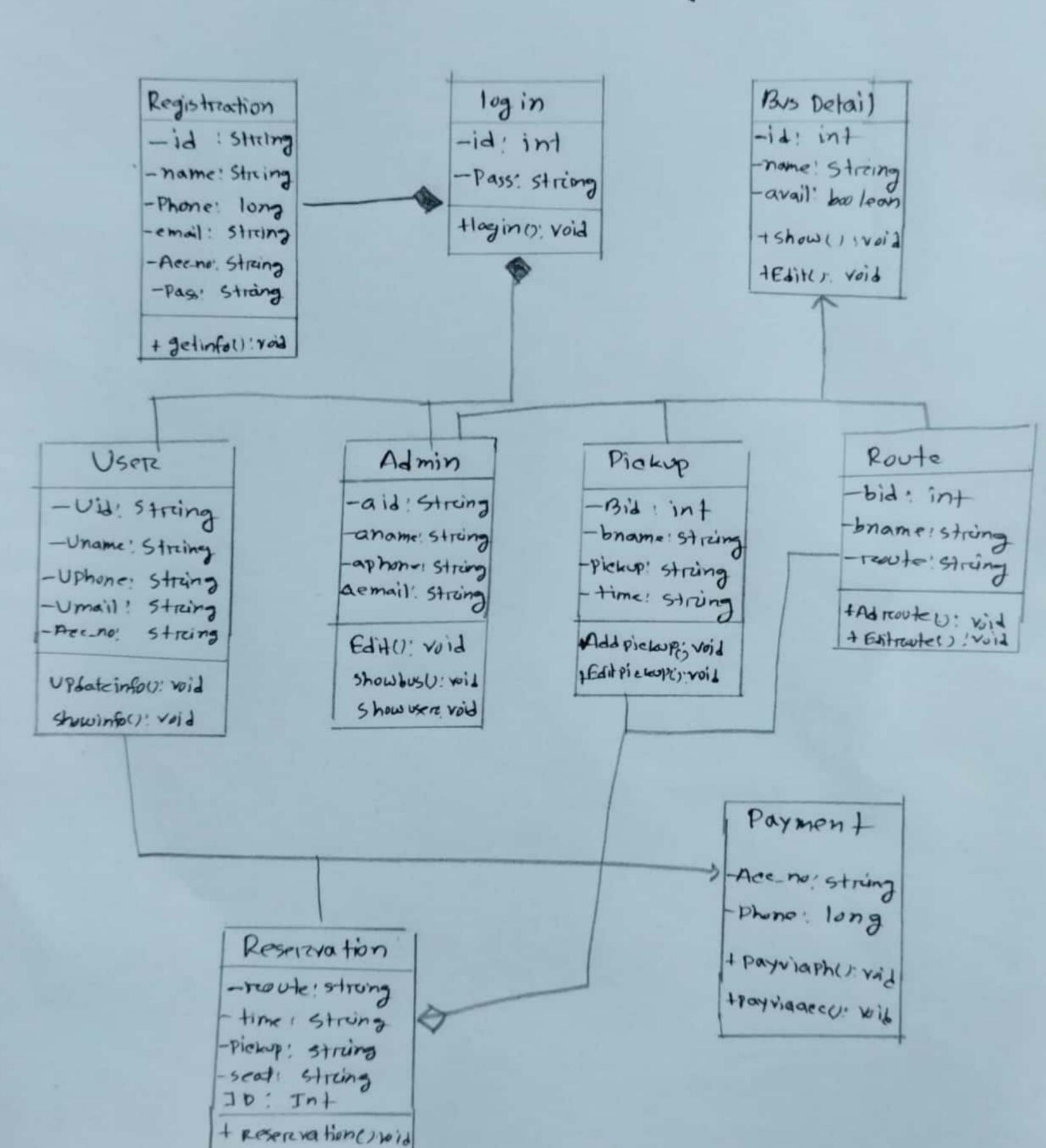
Sub System - 3



Pritam Saha

ID: 375

Paret: class modeling



Name: Prokash Maitra

Roll: 370

Parot: Entity Relationship Diagram

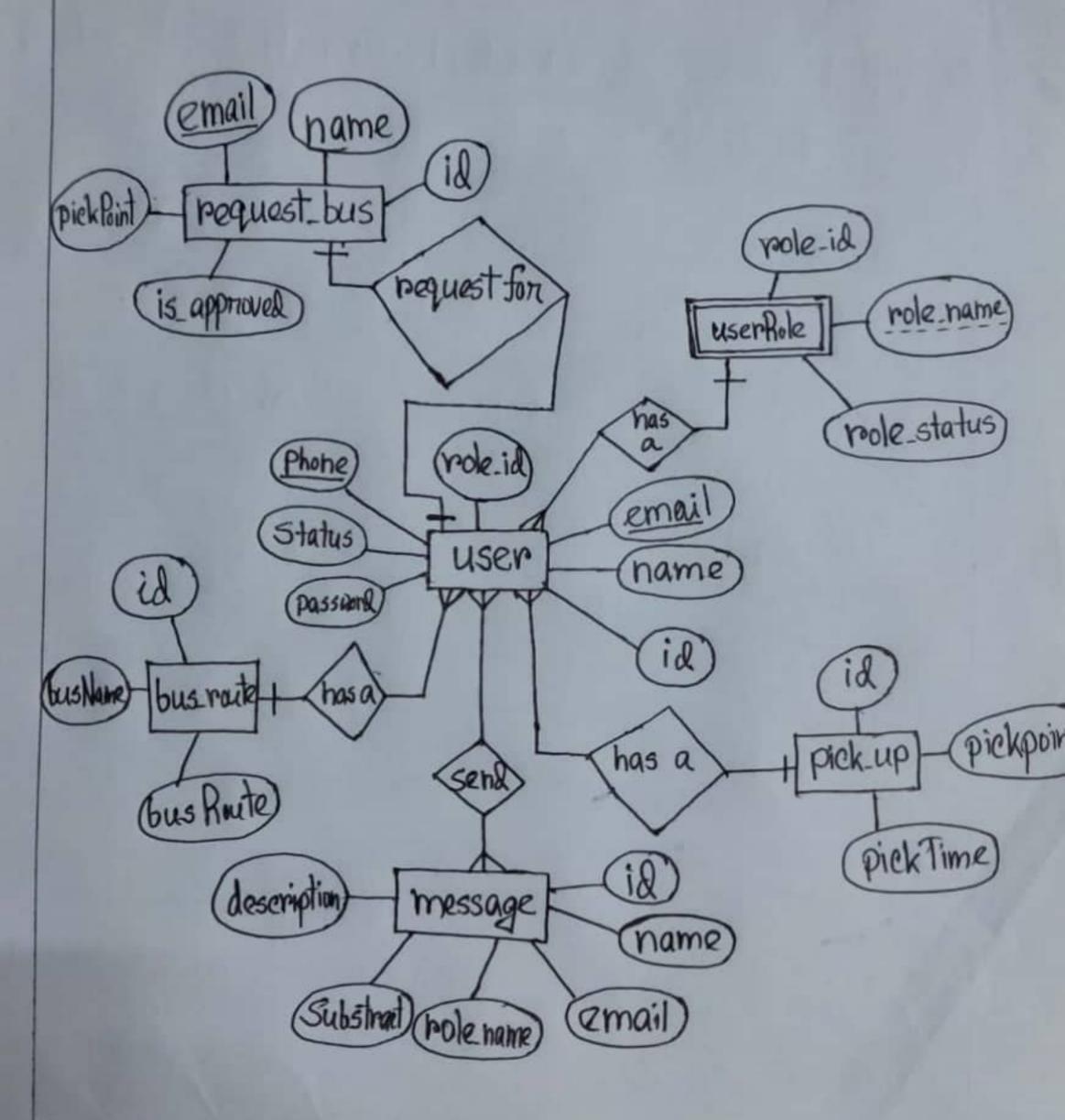


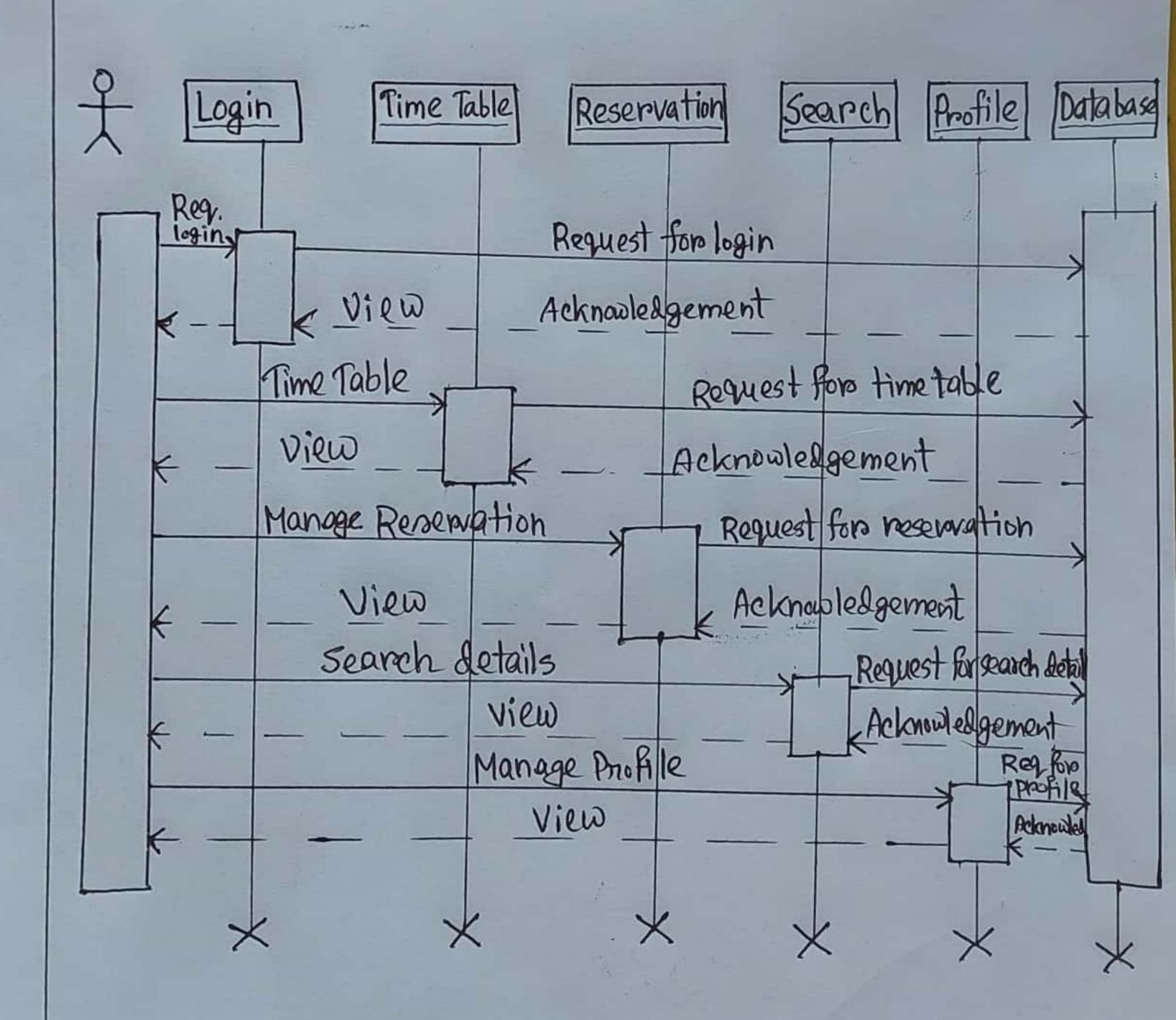
Figure: Entity Relationship Diagram

Name: Prokash Maitra

Roll: 370

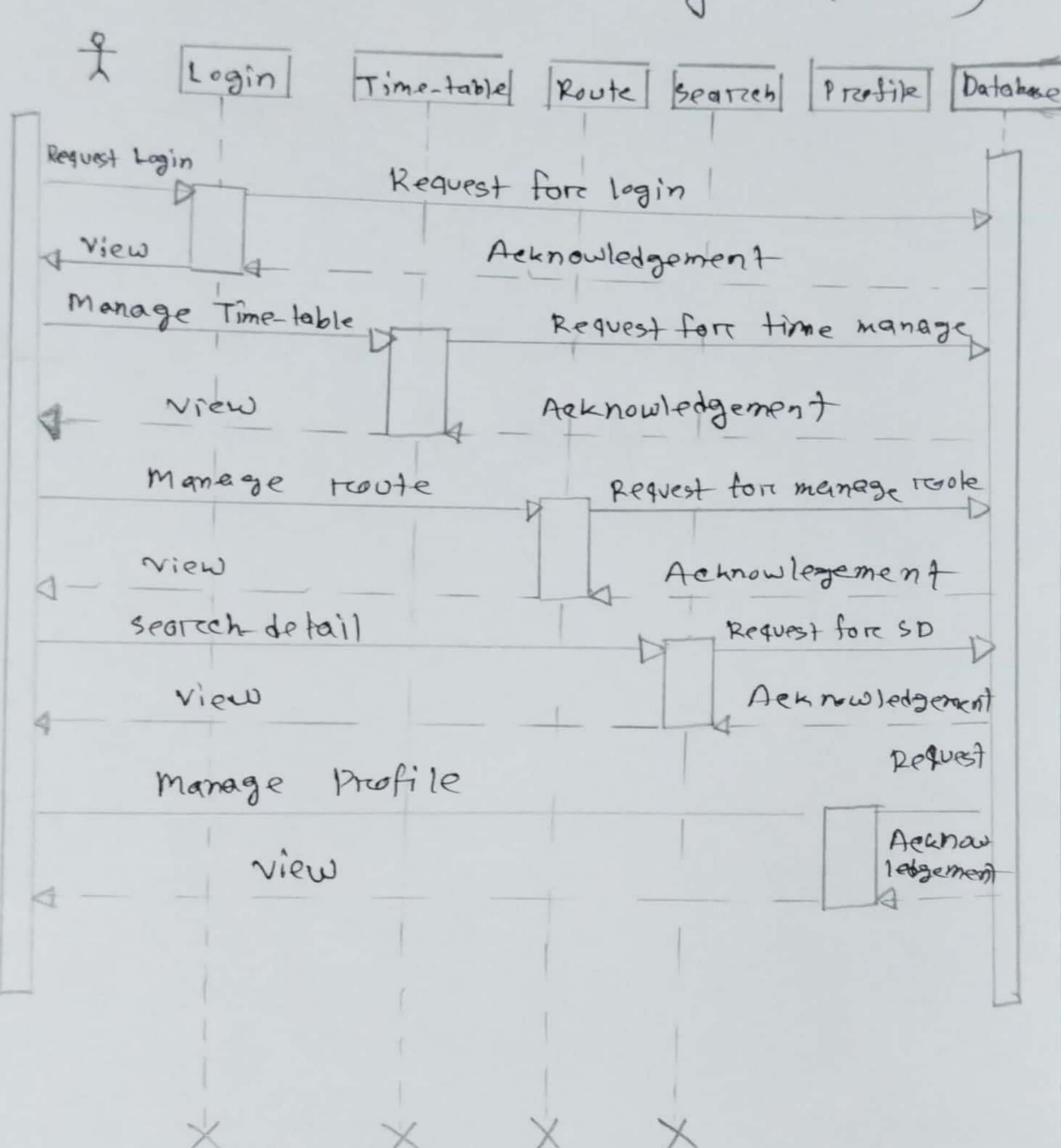
Part: Sequence Diagram (Customer)

Sequence Diagram of Customer

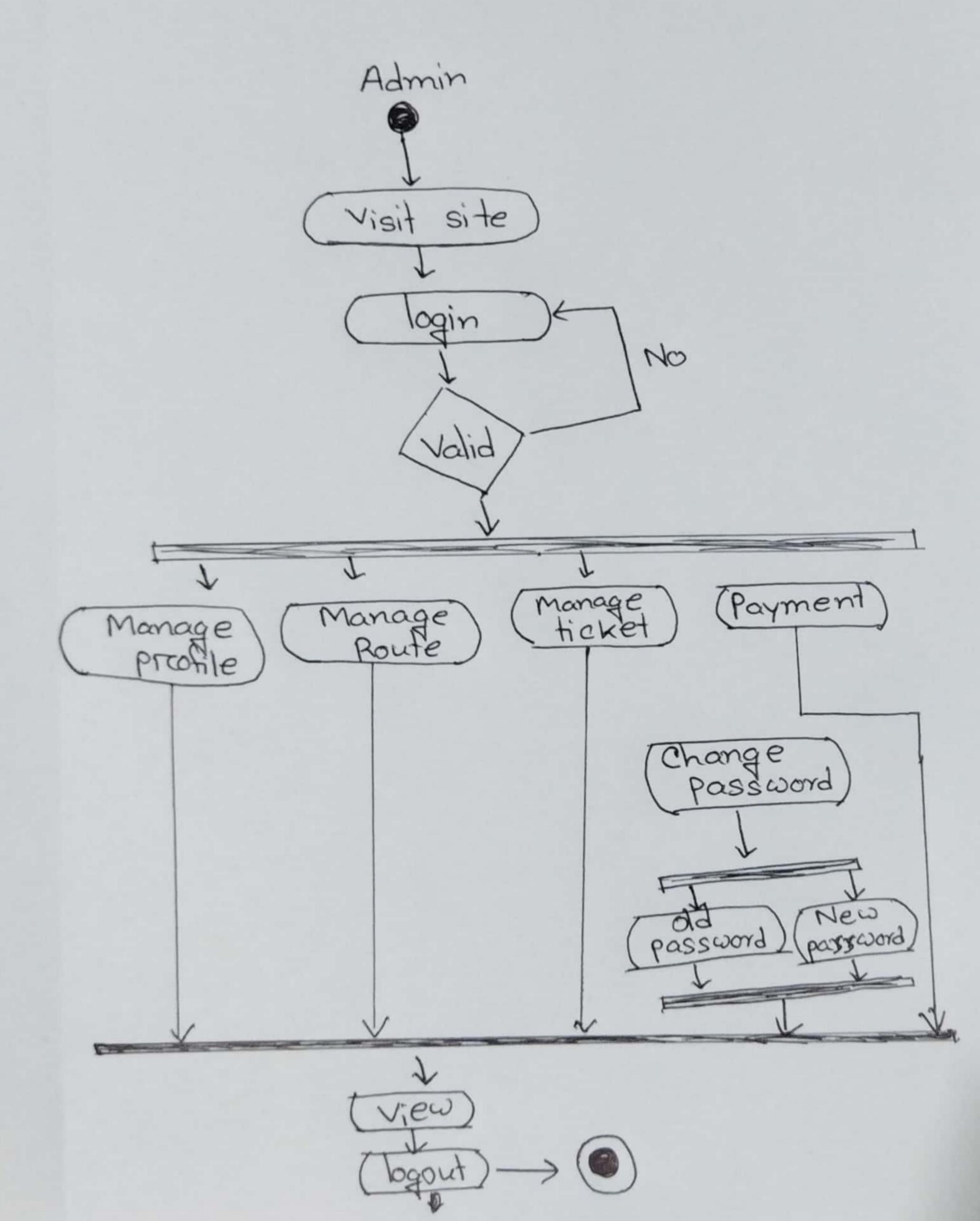


Name: Pritam Saha ID: 375

my paret: sequence Diagram (Admin)

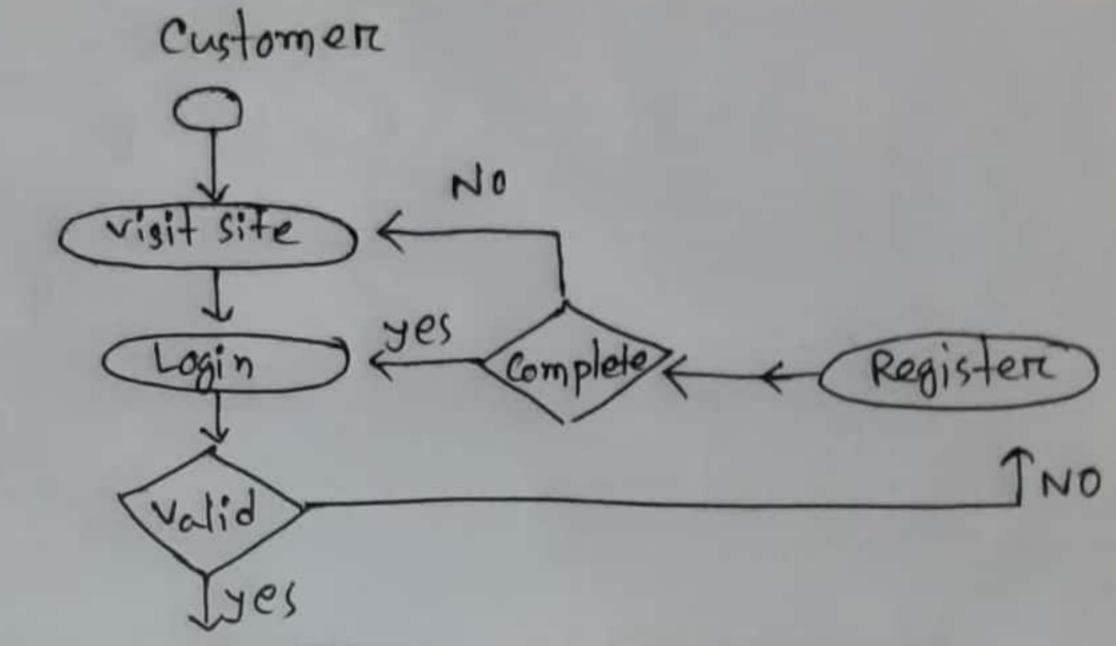


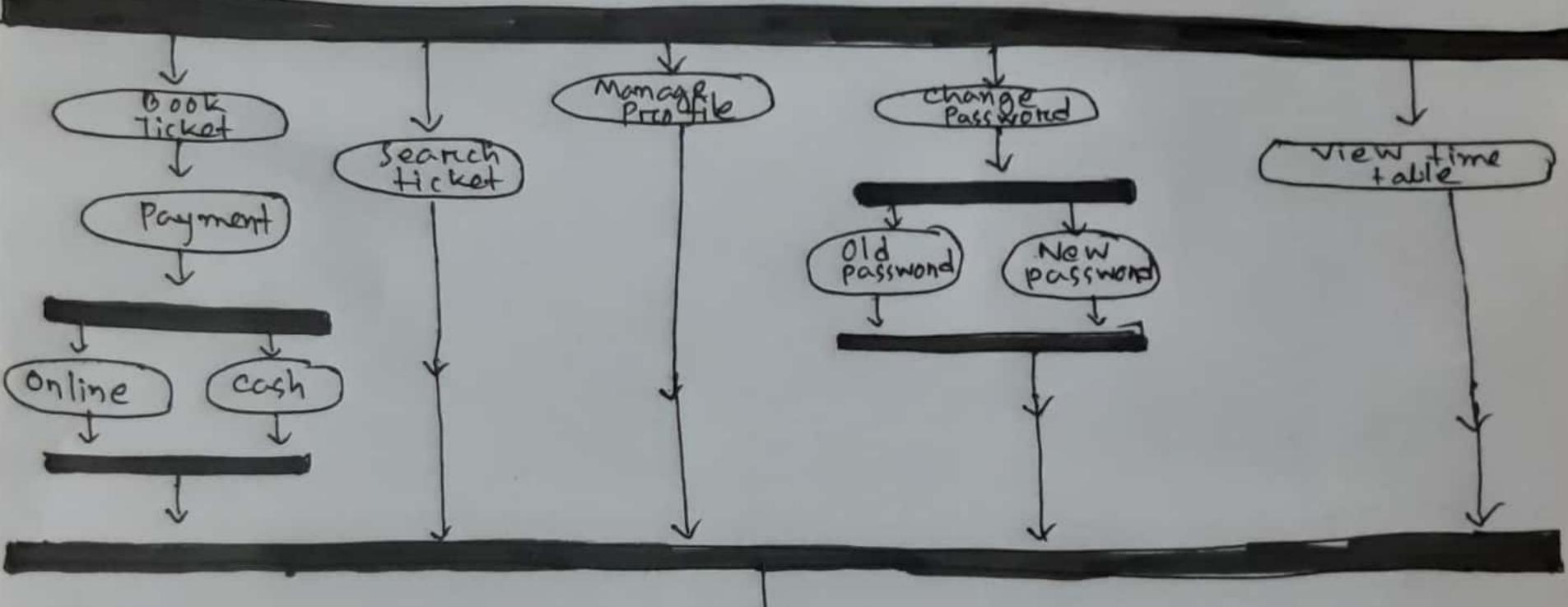
Tama shil
ID-342
Paret: Activity diagream
fore Admin

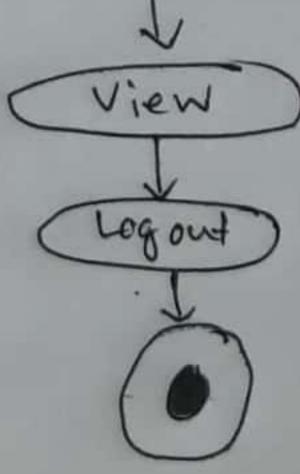


Name: Mubashere Adnan Jihad Roll: 374

Activity Diagream fore Customere







Tama Shil ID: 342

Paret: Data flow Diagream

Zerco level DataFlow Diagram (OLEVEL DFD):

High level entraies and Process flow of Bus ticket Booking system:

· Managing all Bus schedules

" all Reservations

n all Tickets

. all customer

n all Rus Route

n all Tickets

Bus Route
Management

Bus Ticket
Management

Bus
Ticket
Booking
System

System

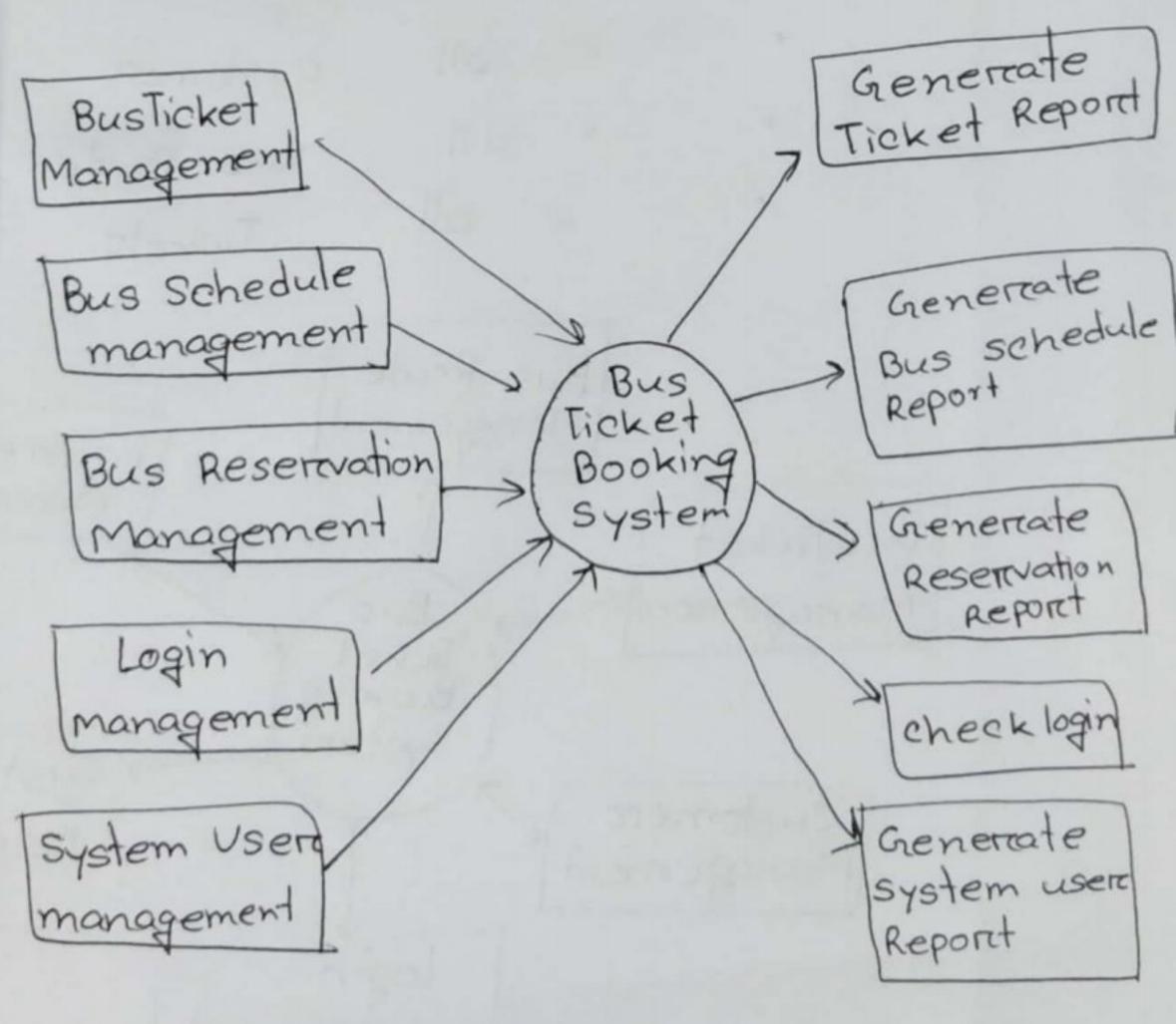
Login
Management

Login
Management

Firest Level DFD:

main entries and outputs of Firest Level DFD (1st level DFD):

- > Processing bus schedules and generating repre
- bus records and generating repotet -> " Ticket records and generating report.
- > " customere records and generating report
- >1) Processing bus routes and Payment records and generating report.



Second level of DFA.

Low level functionalisties of Bus ticket system;

- -> Admin login to the system and manage all functionalities of Bus system.
- -) Admin can add buses, schedules, edit, delete and view them.
- Admin can manage all details about ticket payments. Reservation and confirmations.
- -> Admin can search the details of booking, customer details.
- -> Admin can treack detailed information of Booking, Tickets, Customere.

