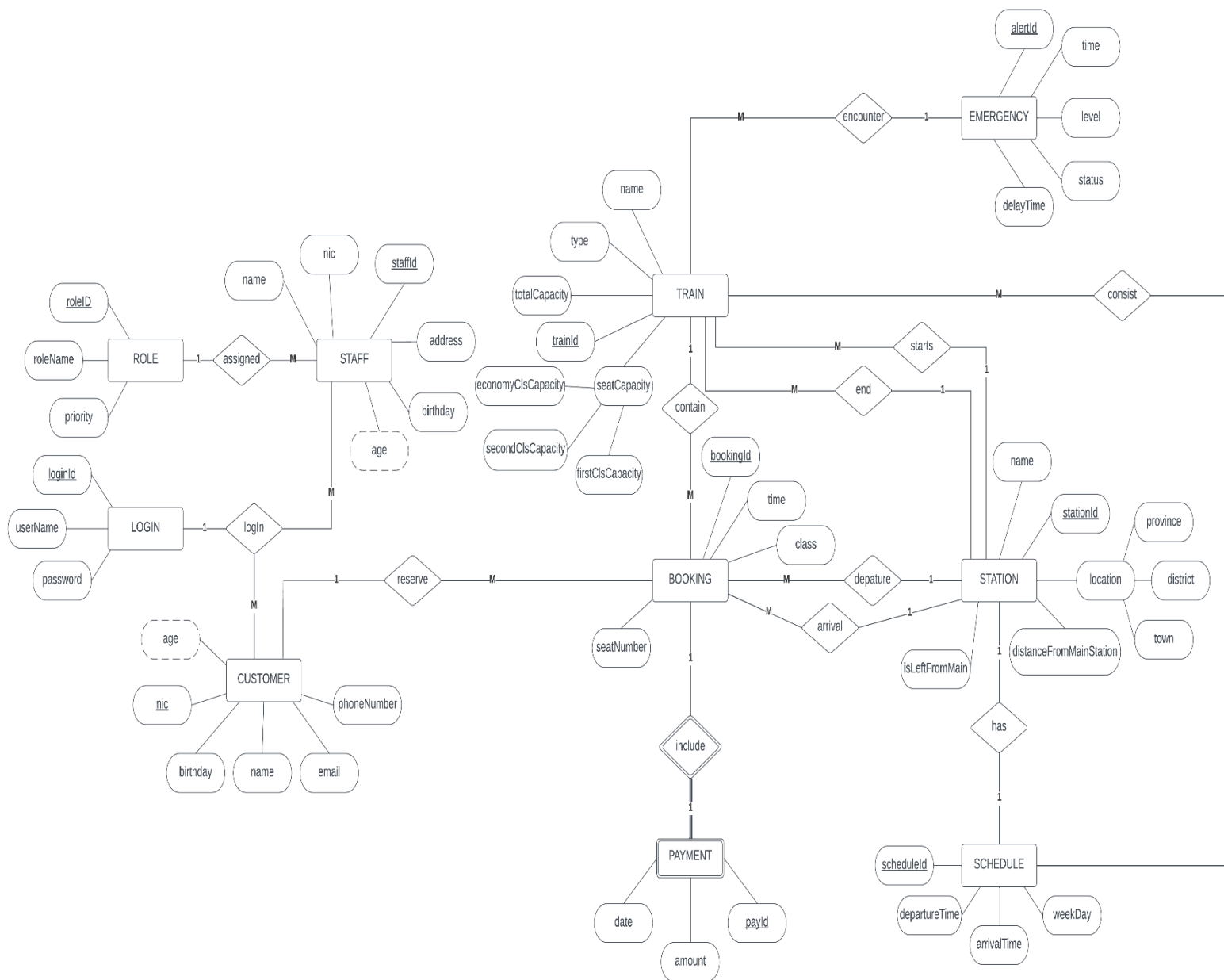# ER Diagram and Relational Schema for Train Ticket Reservation system

Our Team,

1) **AS2021403 - D.P.G.A.H. Kulathilaka**
2) **AS2021367 - T.G.D.S. Chathuranga**
3) **AS2021573 - M.A.S.E.R. Wijerathna**
4) **AS2021457 - R.M.D.D. Malinda**
5) **AS2021517 - P.T.S. Karunarathna**
6) **AS2021535 - H.R.S.U. Ranasinghe**
7) **AS2021637 - M.A. Sathsarani**
8) **AS2021359 - G.P.G. Pasqual**

Entity Relationship Diagram

Assumptions-

1) Customer needs to log, in order to make a reservation.
2) All rail tracks are interconnected.
3) In order to calculate the fare we used a variable length in KM as "distanceFromMain".
4) In the database Petta station taken as the main station.
5) To identify whether the station is left or right from the main station a Boolean value was used in STATION entity as "isLeftFromMain".

ROLE

roleId	roleName	priority

LOGIN

loginId	userName	password

STAFF

staffId	name	nic	address	birthday	age	loginId	roleId

CUSTOMER

nic	name	phoneNumber	email	birthday	age	loginId

SCHEDULE

scheduleId	departureTime	arivalTime	weekDay	trainId

STATIONS

stationId	name	province	district	town	distanceFromMainStation	isLeftFromMain	scheduleId

EMERGENCY

alertId	time	level	status	delayTime

TRAIN

name	type	totalCapacity	trainId	alertId	startingStation	endingStation	firstClsCapacity	secondClsCapacity	economyClsCapacity

BOOKING

bookingId	time	depatureStation	arrivalStation	trainId	class	seatNumber	nic

PAYMENT

payId	date	amount	bookingId

Relational Schema