

# ONLINE RAILWAY RESERVATION SYSTEM

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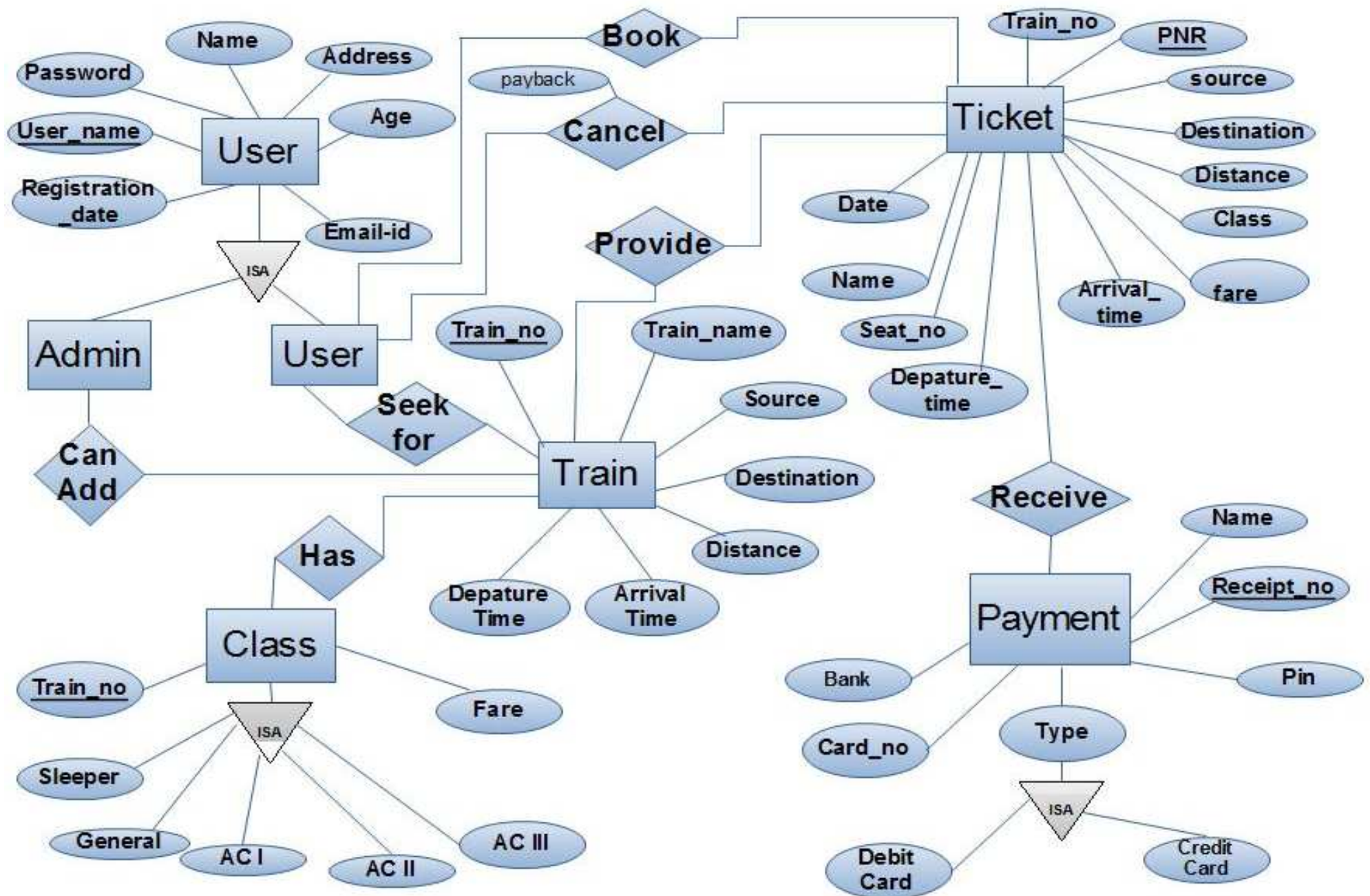
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# PROBLEM STATEMENT

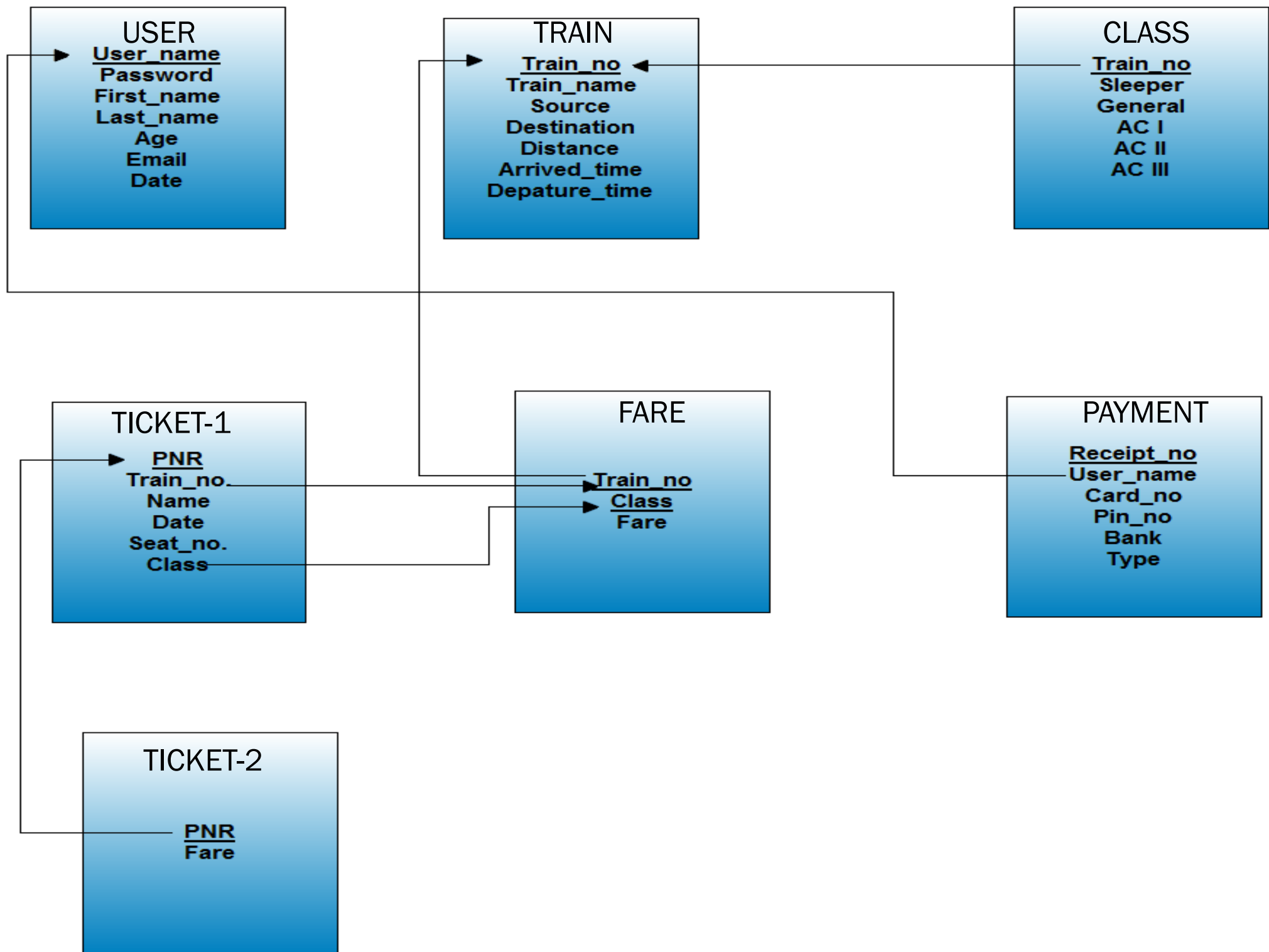
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- Information about the route, cancellation of tickets, departure time, arrival time, number of trains available and other such information.
- Store and retrieve information about the various transactions related to Rail travel.
- Keep track of all its passengers and thus schedule their journey accordingly.
- Maintains records of passengers travelling in the different trains on different dates reaching different destinations in the system.
- User friendly interface to administrator and customer

# ER DIAGRAM







# FUNCTIONS OF USER

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- ✓ Train Enquiry
- ✓ Book Ticket
- ✓ Payment
- ✓ Check PNR Status
- ✓ Cancel Ticket
- ✓ Login and Logout

# FUNCTIONS OF ADMIN

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- ✓ Add/Remove Trains
- ✓ Add/Remove User
- ✓ Book Ticket
- ✓ Cancel Ticket
- ✓ Get Passenger List
- ✓ Login and Logout

# Tables and Normalization

## Admin table

username	password	first_name	last_name	age	email	Registration-date

The above table consists of username as a primary key which determines all other attributes of it. There is no partial and transitive dependency so it is in 3NF.

## User table

username	password	first_name	last_name	age	email	Registration-date

The above table consists of username as a primary key which determines all other attributes of it. There is no partial and transitive dependency so it is in 3NF.



Train table

train_no	train_name	source	destination	distance	arrival_time	dep_time

Train number is the primary key of train table . It consists of atomic values of attributes and there is no partial and transitive dependency so it is in 3NF.

Ticket table

P N R	train_no	train_name	source	destination	distance	class	fare	arrival_time	departure_time	Name	date	seat_no



## 1 NF – 3 NF conversion of Train table

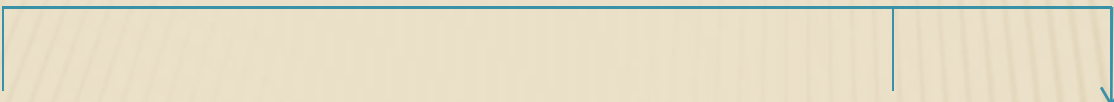
Train\_details

train_no	train_name	source	destination	distance	arrival_time	dep_time

Fare table

train_no	class	fare

Ticket\_details



PNR	train_no	name	date	seat_no	class	fare



Ticket1 table

PNR	train_no	name	date	seat_no	class

Ticket2 table

PNR	fare

## Class\_details

train_no	General	Sleeper	Ac I	Ac II	Ac III

## Payement table

receipt_no	username	card_no	pin_no	bank	type

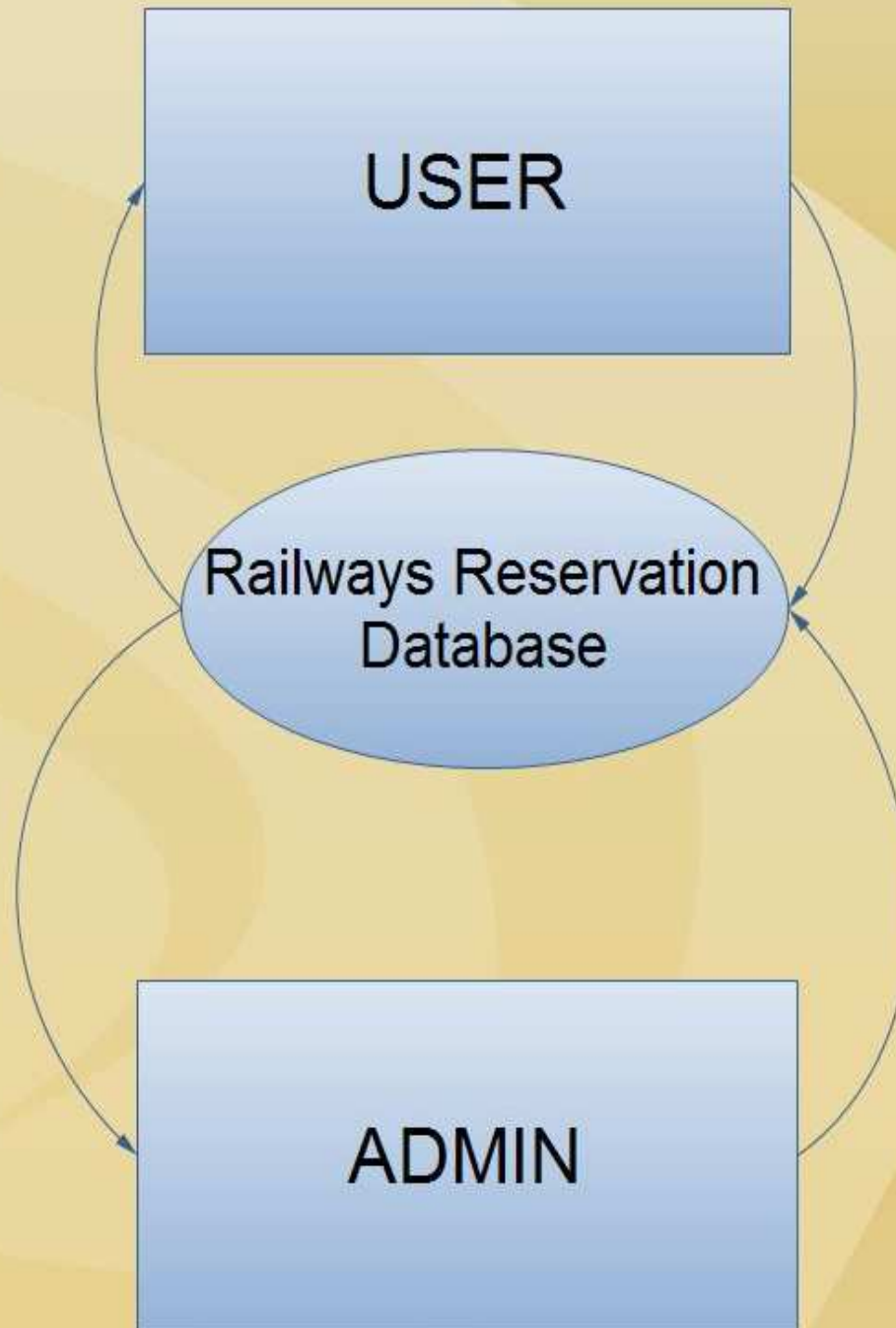


# DFD (Data Flow Diagram)

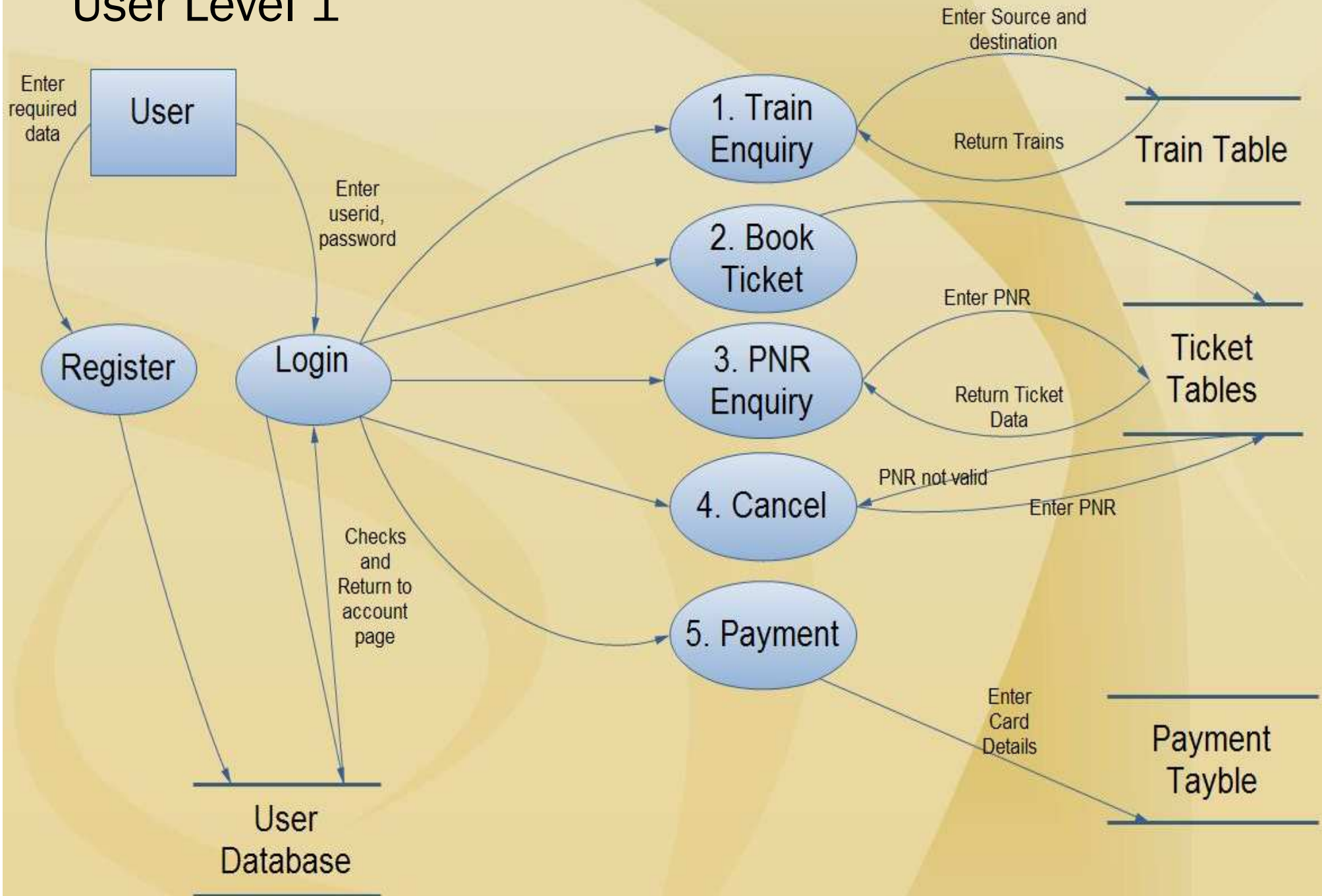
## 3 Level Diagram

- Level 0
- Level 1
- Level 2

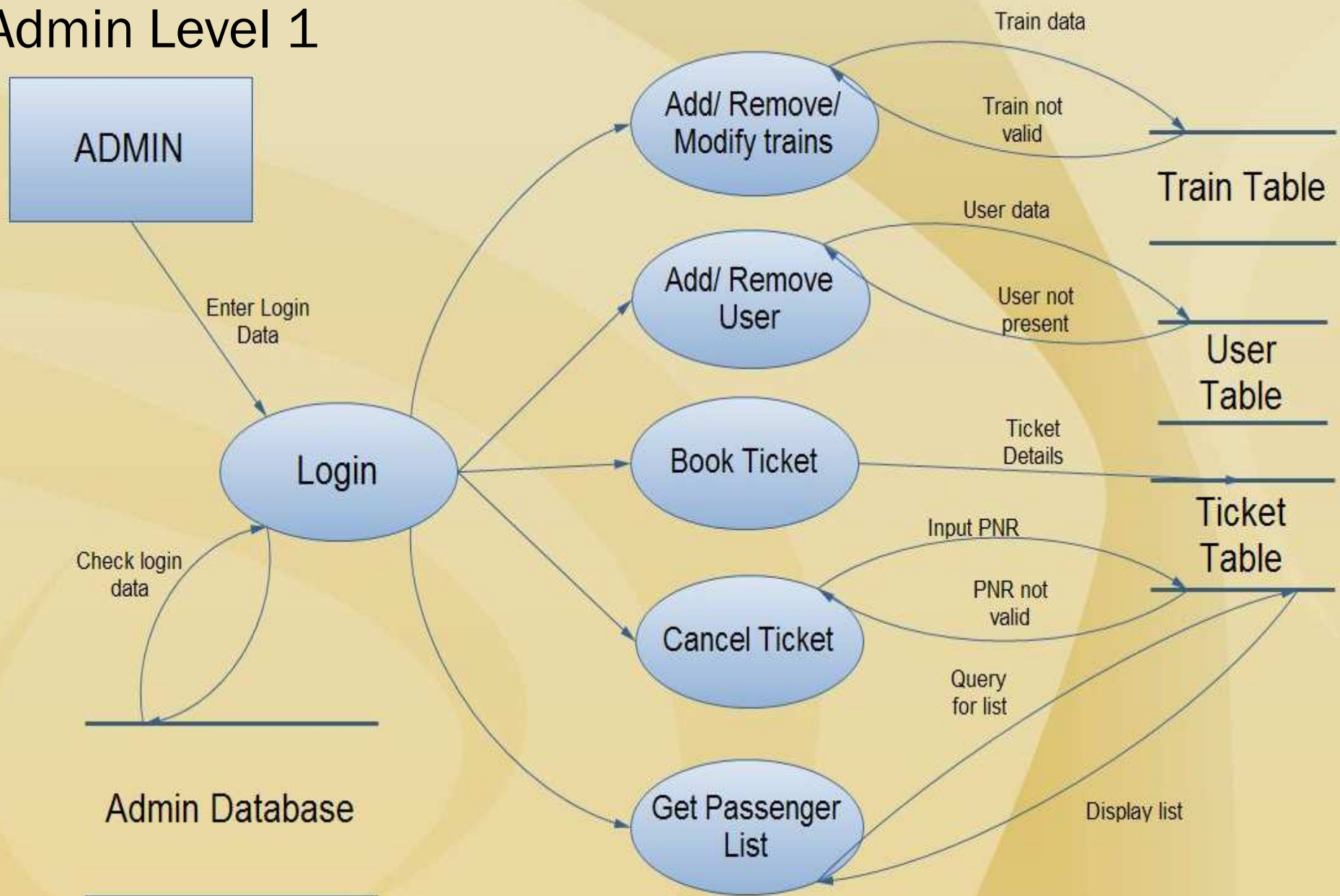
## Level 0



# User Level 1

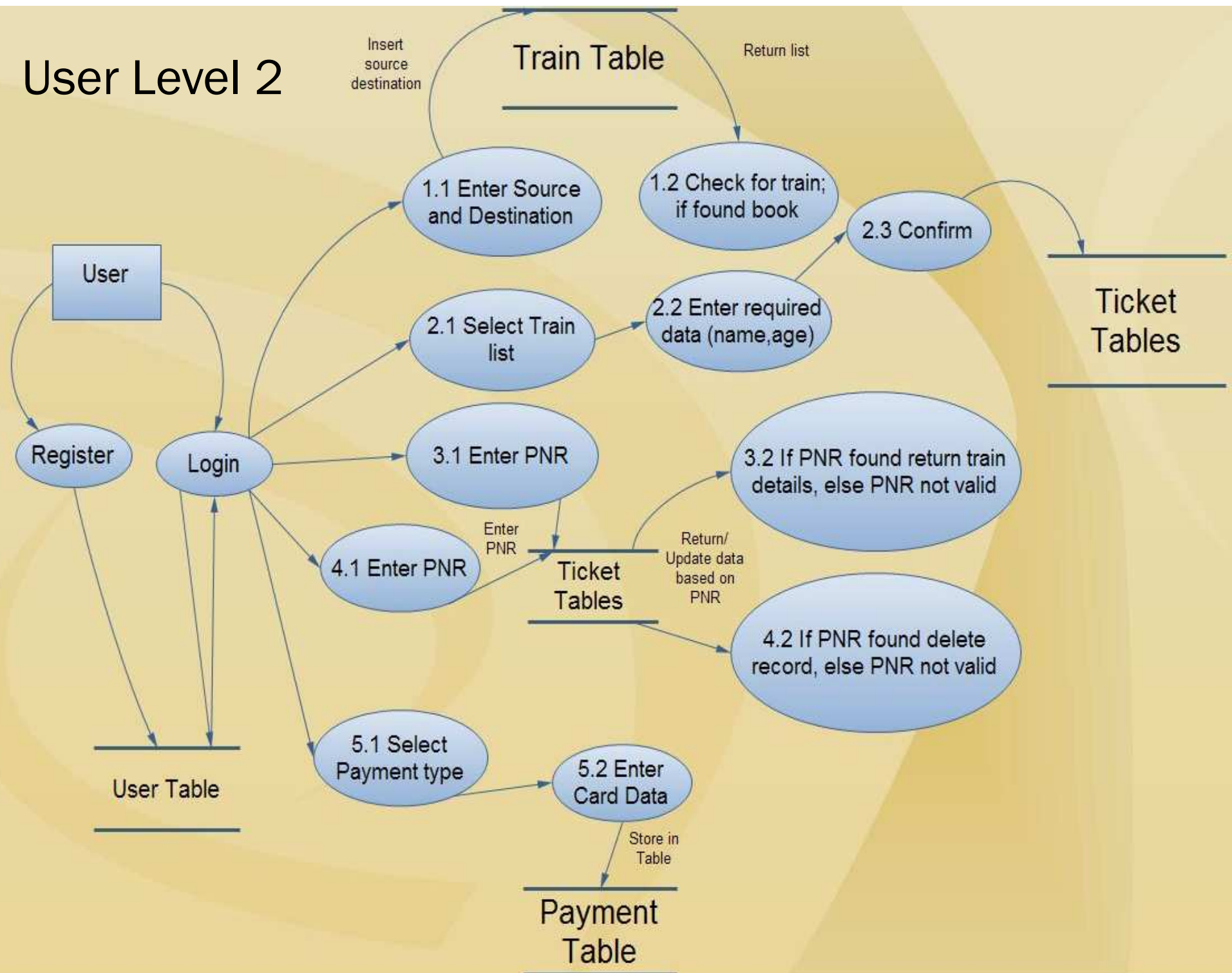


# Admin Level 1

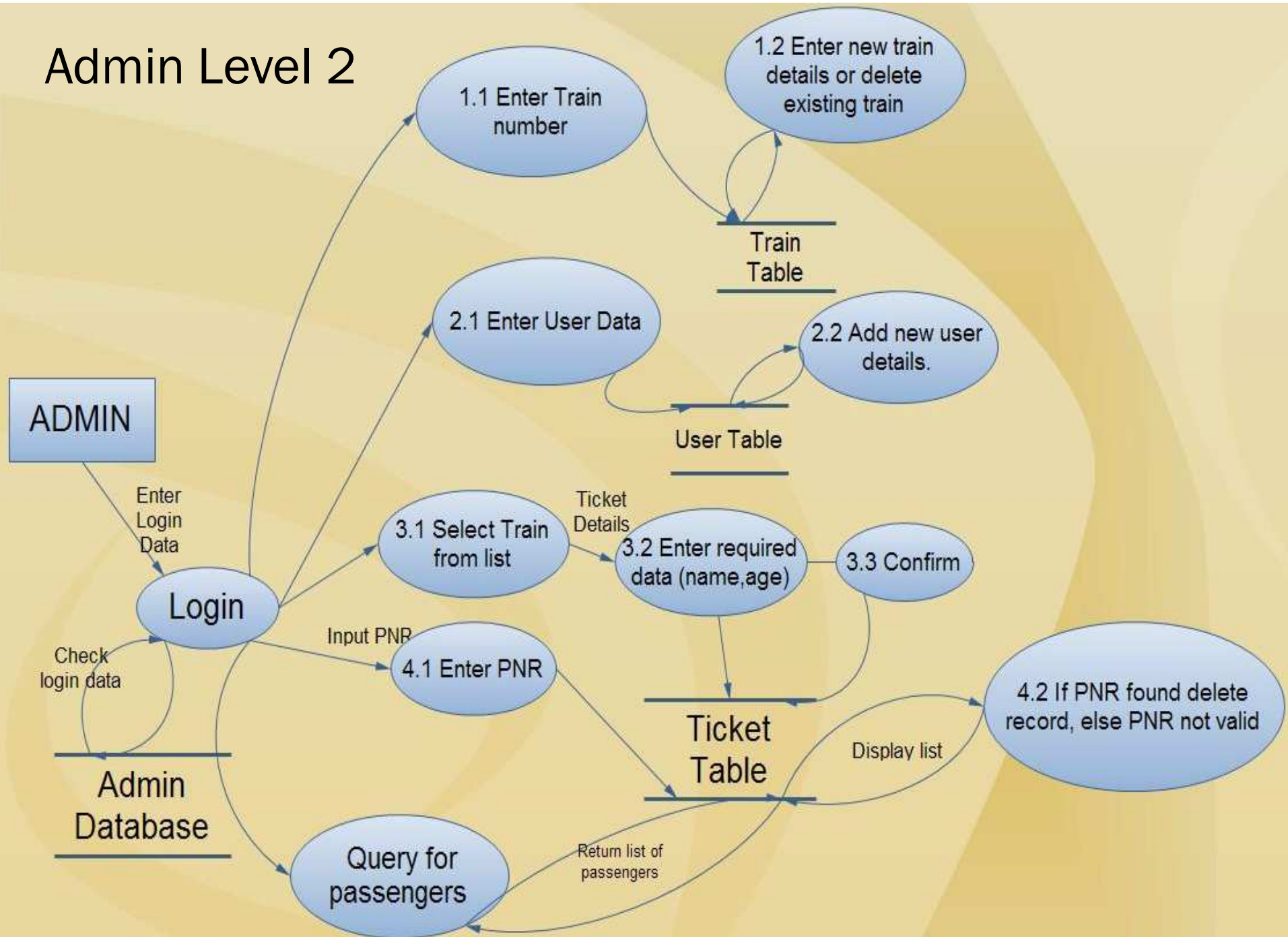




# User Level 2



# Admin Level 2



# TRIGGERS

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- ✓ If user has entered data in payment, send a trigger to change the value of paid field in ticket (initially set at zero).
- ✓ Confirmation mail to be sent to the user on his email if he has cancelled the ticket or created an account.
- ✓ When a new train is added to the train table the fare table should also be updated.



# Snapshots



# Railway Reservation System

Serving you since 2010

## Login

Username:	<input type="text"/>
Password:	<input type="password"/>
<input type="button" value="Login"/>	

[Register for a new account](#)

## Update

### Railway Project Completed

*Project Completed*

Successful Completion of  
Railway Reservation System.

[Read more](#)

### Tools Used

*Front End & Bac End*

PHP, HTML, CSS as the FRONT  
END and MYSQL as the Back End


[Read more](#)

## Links

 [Home](#)

 [Admin Page](#)

 [Normal Login](#)

 [Indian Railways](#)

# Railway Reservation System

Serving you since 2010

Welcome user

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[Search for Trains](#)

[Enquiry PNR](#)

[Cancel Ticket](#)

[Log out](#)

## Update

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# Railway Reservation System

Serving you since 2010

Welcome admin

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[Add Train](#)

[Full Passenger List](#)

[Search for Trains](#)

[Enquiry PNR](#)

[Cancel Ticket](#)

[Log out](#)

## Update

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## Links

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 [Indian Railways](#)

Source:	New Delhi
Destination:	Allahabad
Journey Date:	January 01 2010
Class:	General

Search

[Go back](#)



## List of Trains

S. No.	Train No.	Train Name	Source	Destination	Distance	Arrival Time	Departure Time
1	<a href="#">2424</a>	Prayagraj Express	New Delhi	Allahabad	600	8:30	22:40
2	<a href="#">2541</a>	Shiv Ganga	New Delhi	Allahabad	602	9:40	12:40

[Go Back](#)



## Enter Your Information

First Name:	<input type="text"/>
Last Name:	<input type="text"/>
Age:	<input type="text"/>
Class:	<input type="button" value="General"/>
Date of Journey:	03/07/2010
Train No:	2541
Train Name:	Shiv Ganga
Source:	New Delhi
Destination:	Allahabad
Arrival Time:	9:40
Departure Time:	12:40
Distance:	602
<input type="button" value="Confirm"/>	

## Update

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[Read more](#)

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# Railway Reservation System

Serving you since 2010

Your Ticket has been reserved.  
Please put in your payment details to Confirm.

Your PNR Number is: 194170928

[Payment](#)

## Update

**Railway Project Completed**

*Project Completed*

Successful Completion of  
Railway Reservation System.

[Read more](#)

## Tools Used

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PHP, HTML, CSS as the FRONT  
END and MYSQL as the Back End

[Read more](#)

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 [Indian Railways](#)

PNR  
Number:

Status

[Go back](#)



### Personal Details

PNR Number:	520634388
First Name:	prashish
Last Name:	raj
Age:	23
Journey Date:	01/01/2010
Fare:	200
Seat no:	138
Class:	General

### Train Details

Train Number:	2424
Train Name:	Prayagraj Express
Source:	New Delhi
Destination:	Allahabad
Arrival Time:	8:30
Departure Time:	22:40
Distance:	600

**THANK YOU**  
**PLEASE VIEW OUR DEMO**