

Course Code : CSE 404

Course Title : Software Engineering and ISD Laboratory

Project name: Bus ticket booking management system

Experiment no: 03

Experiment name: Logical design and Data Modeling of our Project Using Tools

Submitted To

Dr. Mohammad Zahidur Rahman

Professor

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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

Tama Shil

Id:342

Part: DB schemes

Objective: The objective of the Logical Design and Data Modeling phase in the Bus Ticket Management System project is to define the structure, relationships, and behavior of the system's data components. This phase focuses on creating a conceptual and logical representation of the system's data requirements and designing an efficient and scalable data model to support the system's functionality. The use of appropriate tools and techniques is crucial to accomplish this objective effectively.

Table-Admin

Description: The table store admin information

No	Fieldname	Datatype	Key	Size	Description
01	Admin_id	int	Primary	5	Stores id
02	username	varchar	Unique key	30	Stores username
03	email	varchar	Not null	30	Stores email
04	password	varchar	Not null	30	Stores password

Table-Customer

Description: The table store customer information

No	Fieldname	Datatype	Key	Size	Description
01	Customer_id	int	Primary	5	Stores id
02	username	varchar	Unique key	30	Stores username
03	email	varchar	Not null	30	Stores email
04	password	varchar	Not null	30	Stores password
05	Gender	char	Not null	2	Stores gender
06	Phone	varchar	Not null	20	Stores number

Table-Route detail

Description: The table store route details information

No	Fieldname	Datatype	Key	Size	Description
01	Route_id	varchar	Primary key	5	Stores id
02	Destination	varchar	Not null	30	Stores destination
03	Pickup	varchar	Not null	30	Stores pickup
04	Distance	char	Not null	30	Stores distance
05	Rent	int	Not null	5	Store Rent

Pritam Saha

ID:375

Table-Ticket

Description: The table store ticket information

No	Fieldname	Datatype	Key	Size	Description
01	Trans_type	varchar	Primary key	15	Stores Trans_type
02	Departure type	varchar	Not null	30	Stores Departure type
03	Arrival time	varchar	Not null	30	Stores Arrival time
04	Departure station	varchar	Not null	30	Stores Departure station
05	Arrival station	varchar	Not null	5	Stores Arrival station
06	Via station	varchar	Not null	30	Stores Via station
07	Distance	varchar	Not null	30	Stores Distance
08	Rent	varchar	Foreign key	30	Stores rent

Table-Rent

Description: The table store rent information

No	Fieldname	Datatype	Key	Size	Description
01	Rent	int	Foreign key	15	Stores Rent
02	Rent_id	int	Primary key	30	Stores id
03	Distance	varchar	Not null	30	Stores distance
04	Type	varchar	Foreign key	30	Stores type

Name: Mubasher Adnan Jihad

Roll:374

Table-Time-table

Description: The table store route information of the ticket

No	Fieldname	Datatype	Key	Size	Description
01	Rent_id	int	Foreign key	30	Stores id
02	Departure time	varchar	Not null	30	Stores Departure time
03	Arrival time	varchar	Not null	30	Stores Arrival time
04	Departure station	varchar	Not null	30	Stores Departure station
05	Arrival station	varchar	Not null	5	Stores Arrival station
06	Via station	varchar	Not null	30	Stores Via station
07	Distance	varchar	Not null	30	Stores Distance
08	Rent	varchar	Foreign key	30	Stores rent detail

Table-Contact Us

Description: The table store rent information

No	Fieldname	Datatype	Key	Size	Description
01	Customer_id	int	Foreign key	5	Stores id
02	username	varchar	Foreign key	30	Stores username of customer
03	email	varchar	Not null	30	Stores email
04	message	varchar	Foreign key	30	Stores message

Table-Password Update

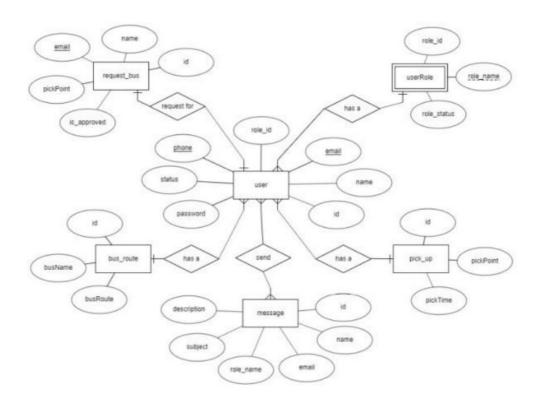
Description: The table stores information of changed password

No	Fieldname	Datatype	Key	Size	Description
01	Id	int	Foreign key	5	Stores id
02	Old_pass	varchar	Foreign key	30	Stores old password
03	New-pass	varchar	Not null	30	Stores new password
04	type	varchar	Not null	30	Stores type

Name: Prokash Maitra

Class Roll: 370

Exam Roll: 191372





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04	375	Pritam Saha

Tama Shil

ID: 342

Paret: Db schemes

Objective:

The objective of this experciment is to show the ER diagream and Database schemas of p bus ticket booking management system.

Data Dictionary

SL. No	Table name
1.	Admin
	customera
2.	Route Detail
3.	Ticket
9.	Rent
5.	Payment
6.	Book Detail
7.	Password
8	
9.	Time-Table
10.	Contact us
11.	Bus Detail

Table - Admin

Description: This table storce admin information

No	Fieldname	Datatype	Size	key	Description
1	Admin-id	int	۵	Preimarry	Stories Id
2	username	Varicha	30	Uniquekey	stories username
3	password	Varrehar	30	Not null	stores password
4	email	Vartchar	30	Not null	storces email

Table - Customera

Description - This table storce a customera information.

Fieldname	Data	Size	KCY	Description
		5	Acimary	Storres id.
	varchar	30	Unique	Horres name
	varrehar	30	-	stores email
phone	Varchan	30	-	Stores phonember
Payment	varthan	30	•	stores payment method
Gendere	varrchar	30	-	Stores Gerden.
	c-id c-name email phone Payment	C-name varchar email varchar phone varchar Payment varchar	c-id int 5 c-name varchar 30 email varchar 30 phone varchar 30 Payment varchar 30	c-id int 5 Himary key c-name varchar 30 Unique key email varrehar 30 phone varchar 30 Payment varthar 30 -

Table: Route Detail

Description! This table storce the route information.

No	Fieldname	Pata type	Size	key	Descreiption
01	Route-id	int	5	Preimary	Storres Id of bus moute
2	Destination	Varcehor	30	-	stores destinition
3	Pickup	Varchar	30	-	Stores pickup
4	Distance	varrchar	30	-	Storces Distance
5	Rent	Varchay	30	-	stories price of ticket.

Name: Pritam Saha ID: 375

Talle: Ticket

Desertiption: This table aree storre the inforcemention of Tieket

NO	Field name	Data Type	Size	Constraint	Description
1.	Trians. type	Vatreharz	15	Przimarzy	
2.	Depareture time	Varrehan	30	Not Null	
3.		varzehorz	30	NOT NOT	
4.	Depareture Station	Varzeharz	30	Forceign by	
5.	Arzirival _ Station	Vatrehore	30	Foreign key	
c .	via Station	Varzeharz	30	Forceign Key	
7.	Distance	Varieton	5	Not Null	
8.	Rent	in+	-	Forceign by	

Table: Rent

Description: This take are store the sales informa -

Fighname	Datatype	Size	Constraint	Description
Rent	in+	-	Forzershlay	
Route-id	int	11		
Distance	Varehar	5	Not No.11	
Tichet-type	Varrehen	20	Forceion	
	Rent Route-id Distance	Rent int Route-id int Distance Varehare	Rent int - Route-id int 11 Distance Varehare 5	Davis 11

Table: Time table

Description. This table are store the route information of the ticket

No	Fieldname	Parta Type	3120	Constraint	Description
	Route-id	int	11	forceign key	It stories id of the moute
2	Departure	varichor	36	Forceign	Poute detail
3	Arrival station	vonchan	30	Forceign	reference
4.	Via Station	varichan	30	forceign	Route- actail
5	Distance	vari	5	Forceign	pepareture +1me
6	De pantur time	u vari	36	Not Nall	Artrival
7	Arrival	Vor	36	Not Null	Poute- Detail
8	Rent	int	-	Forceign	Poute Detail

Table: contact us

Description: This table are storce the all contact person detail

			.,	skod powerlai)	100
No	fieldname	Datatype	size	Constraint,	Description
11911	customeraid	int o	II- god	Forceign key	stories id
2	username	varichan	30	Forceign key	stories
3	email	varicha	30	Null	storces email
4	message	text	115	I'ver ton	storus message

Toparol

hors &

Description. This table store the information of the change password.

No	Fieldname	Data . Type	size	Constraint	10 11
1	Id	int	6	foreign	Description
2	Persswond	vanchan	30	forceign .	Stores
3	New Password	vorchan	30	Not nall	stories new
4	Type	varichari	10	Not null	stories admin
	Har !	1	1	3-1-03-17	9

La series

Fora2

371 200

Name: Prokash Maitra

Roll: 370

Parot: Entity Relationship Diagram

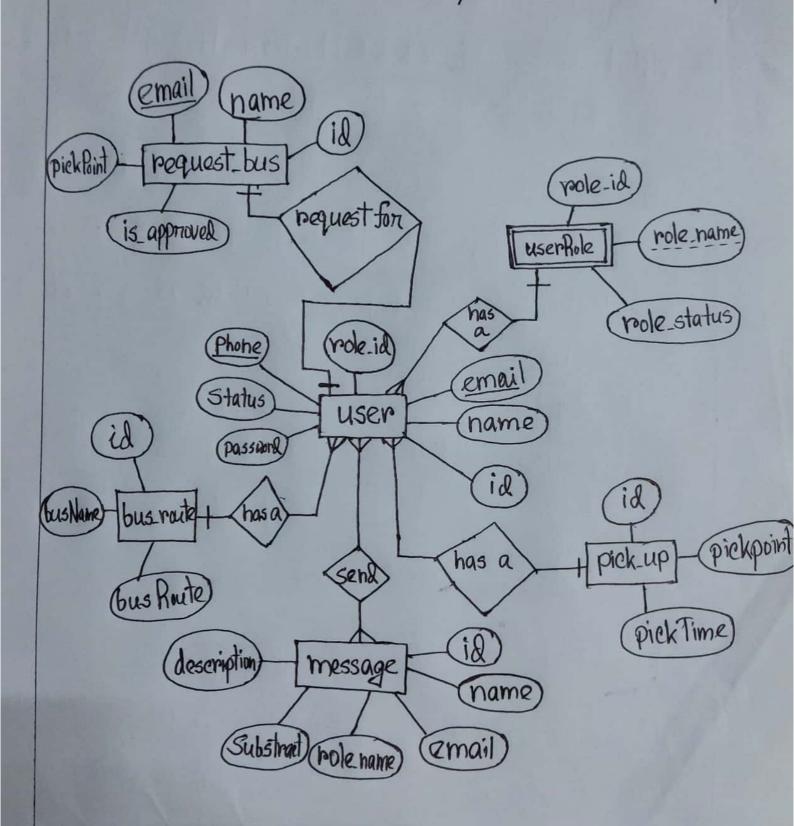


Figure: Entity Relationship Diagram