



BLUEbikes

# BLUEBIKES MANAGEMENT SYSTEM

## GROUP 7:-

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# W



**Serves in Boston  
Metropolitan Area**



**Fleet of 393 Bike Stations  
& 3800 Bikes**



**Easily available &  
affordable pricing**



**Higher usage --> higher  
inefficiency in ride booking &  
payments**



**Proposing a better &  
efficient RDBMS**

# PROBLEM STATEMENT



**Persistent payment issues & slow loading of the application**



**Fare calculation w.r.t time duration, membership mode of membership & discount coupons**

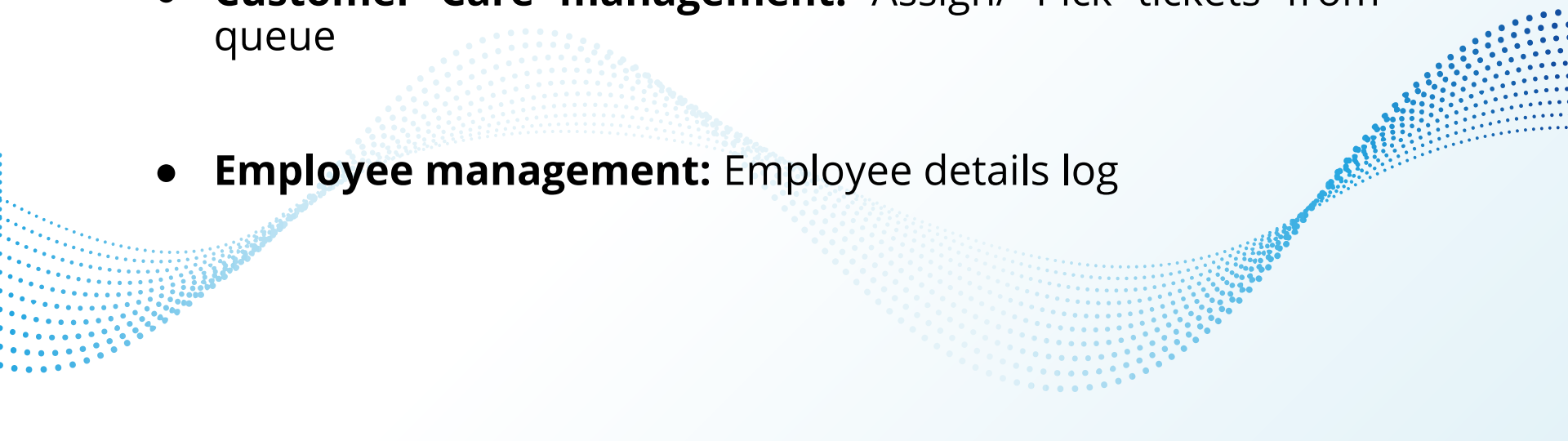


**Providing membership options: Weekly pass, Monthly pass & annual pass**

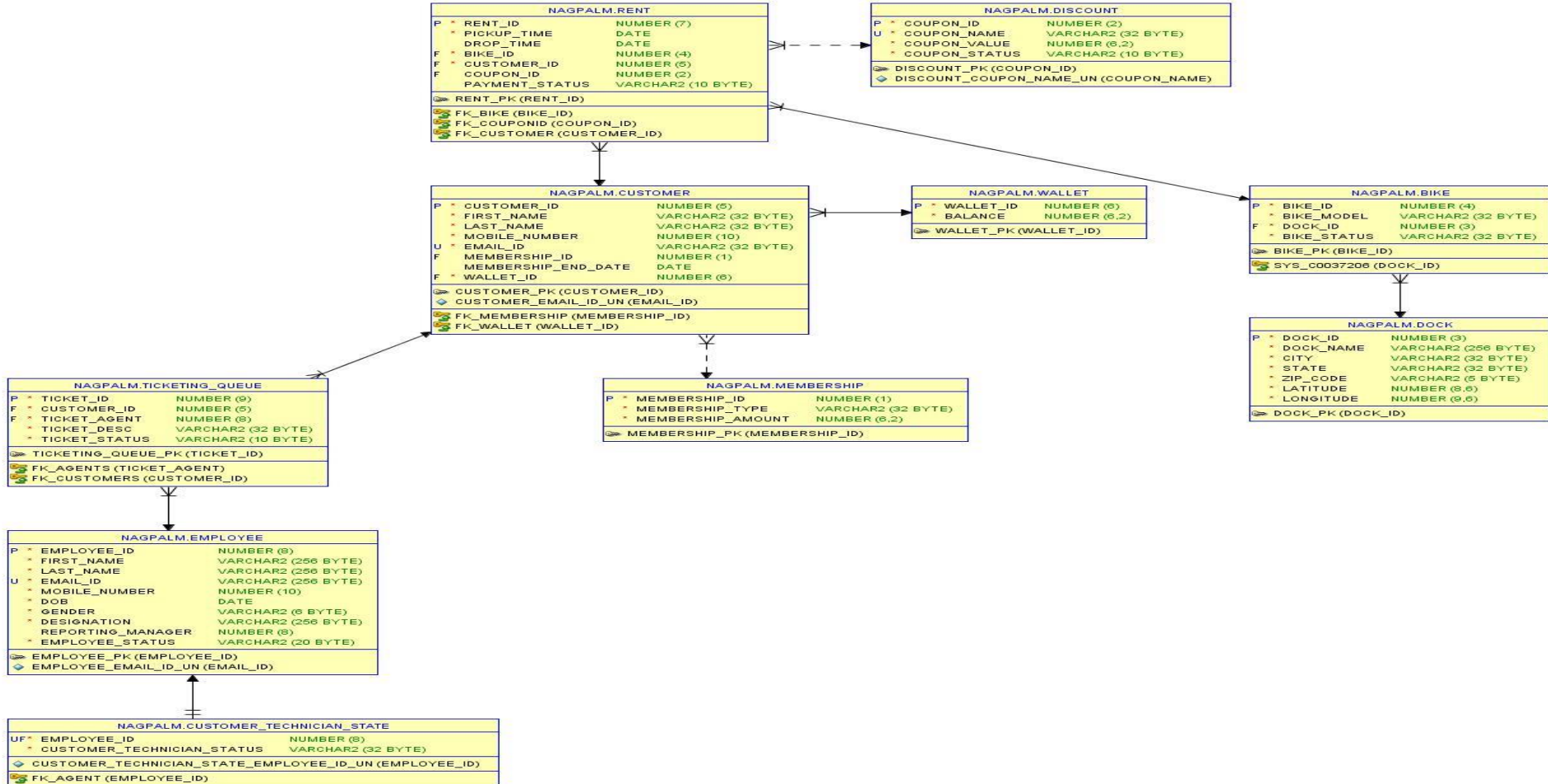


**Ensuring data privacy, storage of past records, bike inventory & data accessibility w.r.t roles & requirements.**

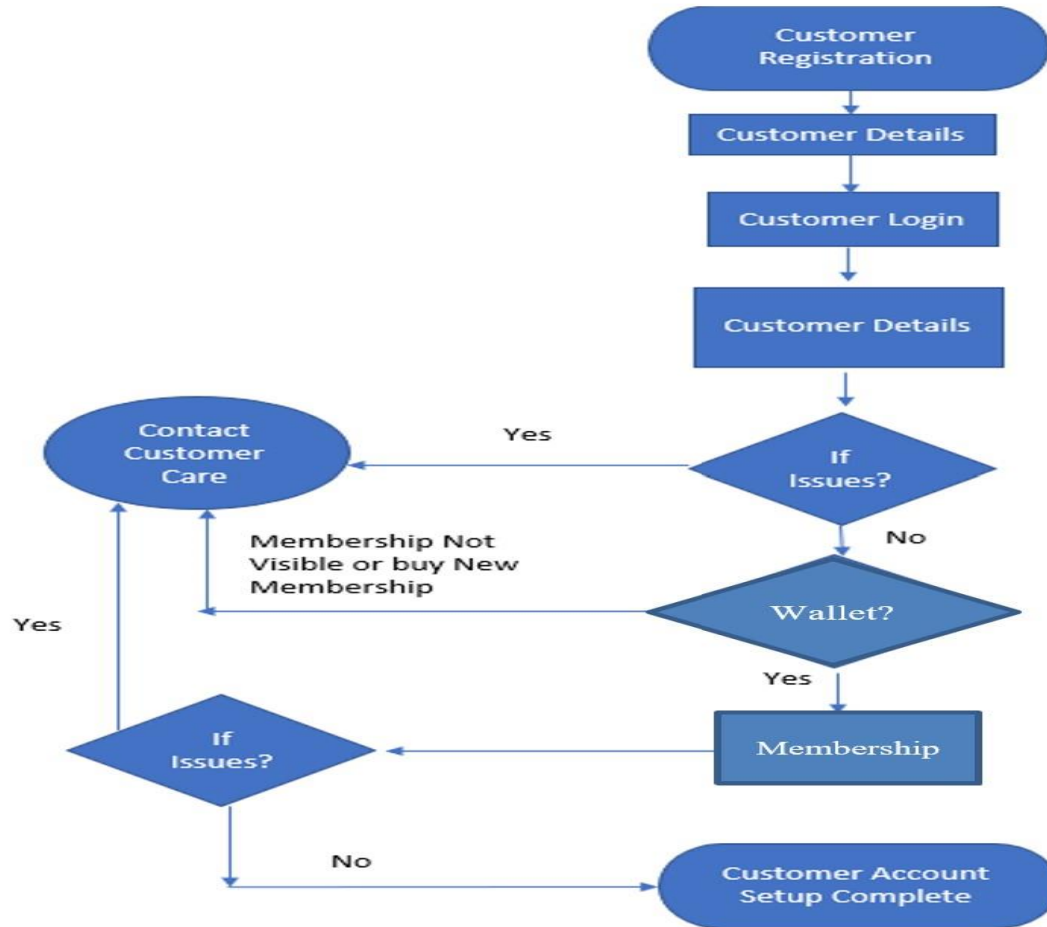
# PROPOSED SOLUTION

- **Booking management:** Setting up account, take a subscription, book a bike, call a customer care, making a payment
  - **Customer Care management:** Assign/ Pick tickets from queue
  - **Employee management:** Employee details log
- 
- A decorative graphic consisting of multiple overlapping waves of blue dots, starting from the bottom left and curving upwards towards the right side of the slide.

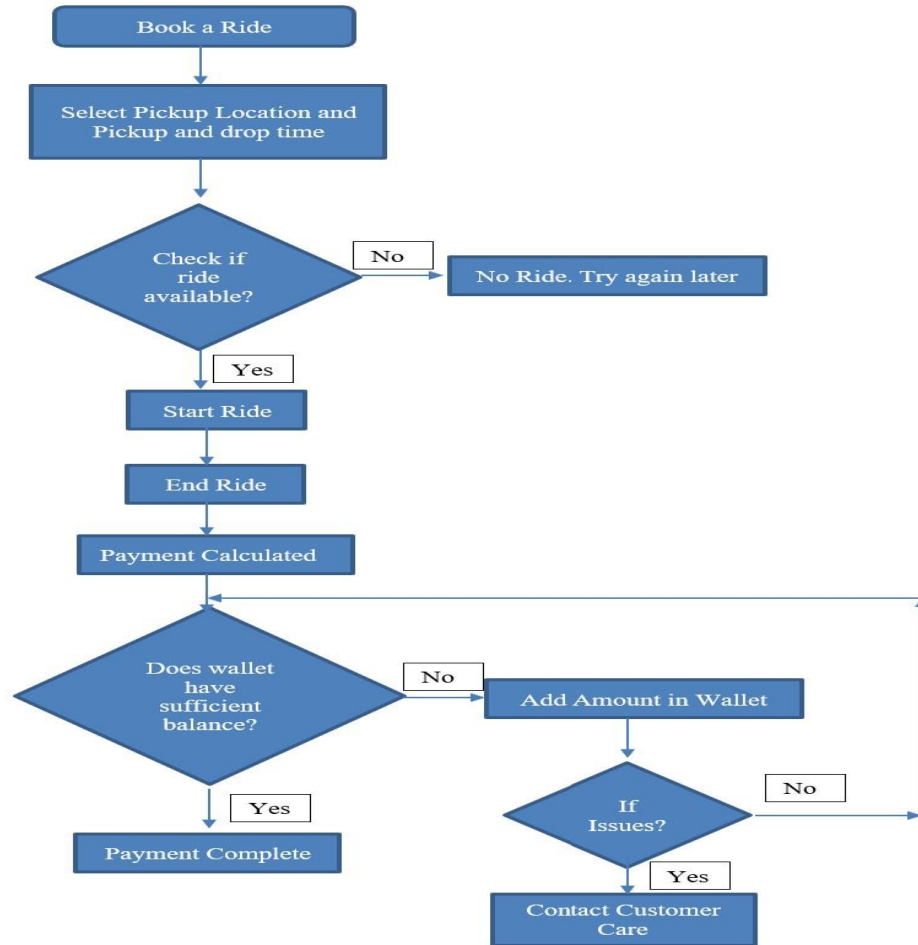
# ERD



# FLOW DIAGRAM - 1) Customer Registration

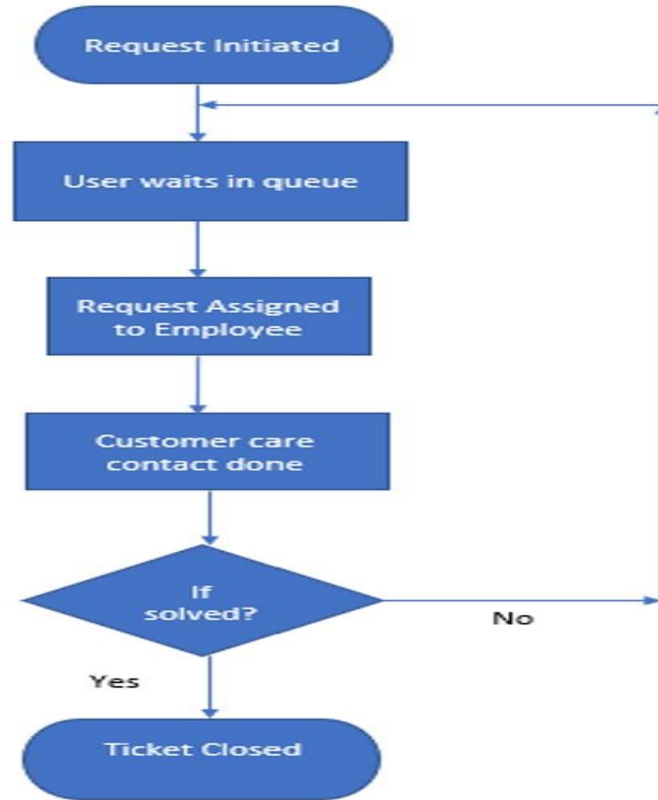


# FLOW DIAGRAM - 2) Ride Booking





# FLOW DIAGRAM - 3) Ticket Handling





# Key Functions

<b>Tables</b>
<b>Procedures</b>
<b>Packages</b>
<b>Indexes</b>
<b>Triggers</b>
<b>Functions</b>
<b>User roles</b>
<b>Views</b>
<b>Reports</b>

# Report - 1) Customer with pending dues

```
SELECT CUSTOMER_ID FROM RENT WHERE PAYMENT_STATUS = 'UNPAID';
```

Script Output x | Query Result x | Query Result 1 x | Query Result 2 x |

SQL | All Rows Fetched: 1 in 0.129 seconds

	CUSTOMER_ID
1	10005

# Report - 2) Finding no. of active coupons

```
SET SERVEROUTPUT ON;
```

```
-- Calculate the number of coupons that are active  
SELECT COUNT (*) AS NO_OF_ACTIVECOUPONS  
FROM DISCOUNT  
WHERE COUPON_STATUS = 'ACTIVE';
```

Script Output ×   Query Result ×   Query Result 1 ×   Query Result 2 ×	
SQL   All Rows Fetched: 1 in 0.137 seconds	
NO_OF_ACTIVECOUPONS	
1	4

## Report - 3) Ticketing agent resolving max. tickets

```
SET SERVEROUTPUT ON;
```

```
SELECT TICKET_AGENT FROM (SELECT TICKET_AGENT, COUNT(TICKET_AGENT) CNT2 FROM TICKETING_QUEUE WHERE TICKET_STATUS = 'CLOSED' GROUP BY TICKET_AGENT)
WHERE CNT2=(SELECT MAX(COUNT(TICKET_AGENT)) CNT
FROM TICKETING_QUEUE WHERE TICKET_STATUS = 'CLOSED' GROUP BY TICKET_AGENT);
```

Screen Shot 2022-04-27 at 1.08.05 AM

Script Output x Query Result x Query Result 1 x Query Result 2 x Query Result 3 x Query Result 4 x Query Result 5 x x x x

    SQL | All Rows Fetched: 1 in 0.13 seconds

TICKET AGENT

1

10000002

# CONTRIBUTIONS

**Yash Nema** Customer, Ticketing, Wallet related Packages & Procedures , Function, Views

**Mohit Nagpal** Employee, Bike and Ride Procedure and Packages, Views, User Creation

**Nirmayee Dighe** Rent and Bike related Procedures and test cases of the system, Tables Creation and Views

**Arjun Janardhan** Membership related Procedures and test cases of the system, Packages and Views

**Sushmita Maity** Create, Update and Delete Procedures and Packages and Testing, Triggers

**Mahendra Kaswan** Membership and Wallet Tables, Views, Reports, Presentations.

**Thank  
You!**

