

# ***CAMP RIDE***



# INTRODUCTION

- *The College Bus Management System – CampRide is a web-based application developed to manage and organize college transportation services in an efficient way. In this project, the frontend is connected to the backend, and essential modules such as login, registration, admin panel, student panel, and contact page are already implemented. The system allows students to sign up, log in, and access their bus details, while administrators can manage student records, bus routes, and feedback through the admin panel. By integrating both the frontend and backend, CampRide ensures secure data handling, easy accessibility, and smooth communication between students and the administration. This project reduces manual work, minimizes errors, and provides a user-friendly platform for managing the entire college bus system digitally.*

# OBJECTIVES

- Security & Privacy

To provide secure login and protect sensitive student and admin data.

- Automation of Bus Management

To replace the manual process of bus allocation, route management, and student registration with an automated system.

- Centralized Database

To maintain a centralized database of students, buses, routes, fees, and feedback for easy access and management.



# EXISTING SYSTEM

- Currently, most colleges manage bus facilities manually or using simple registers/spreadsheets.
- Student Registration: Students submit their details on paper forms or offline to the transport office.
- Bus Allocation: Buses are assigned manually by checking capacity, routes, and student details.
- Fee Management: Payment of bus fees is done at the college office, and records are kept in registers.
- Communication: Students are informed about routes, timings, or changes verbally or through notice boards.
- Feedback/Complaints: No proper system to record or track complaints; usually handled informally.

# PROPOSED SYSTEM

## ◆ Features of the Proposed System

### 1. Online Student Registration

Students can register themselves by filling in details online.

Saves time and reduces paperwork.

### 2. Bus & Route Management

Admin can add, update, and manage buses and routes.

Students can view their allocated bus and route details.

### 3. Login System

Secure login for students and admins.

Different access levels for admin (management) and students (view/update).

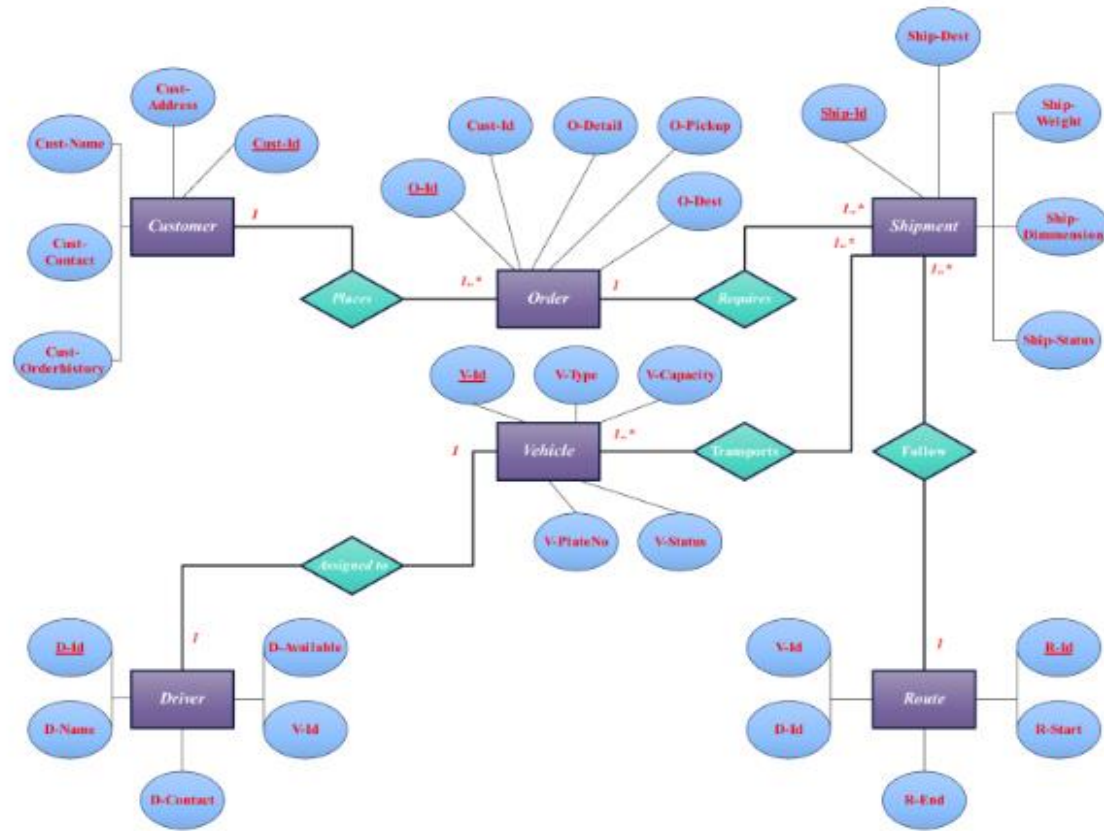
### 6. Feedback & Complaint System

Students can submit feedback or complaints.

Admin can track and resolve issues effectively.



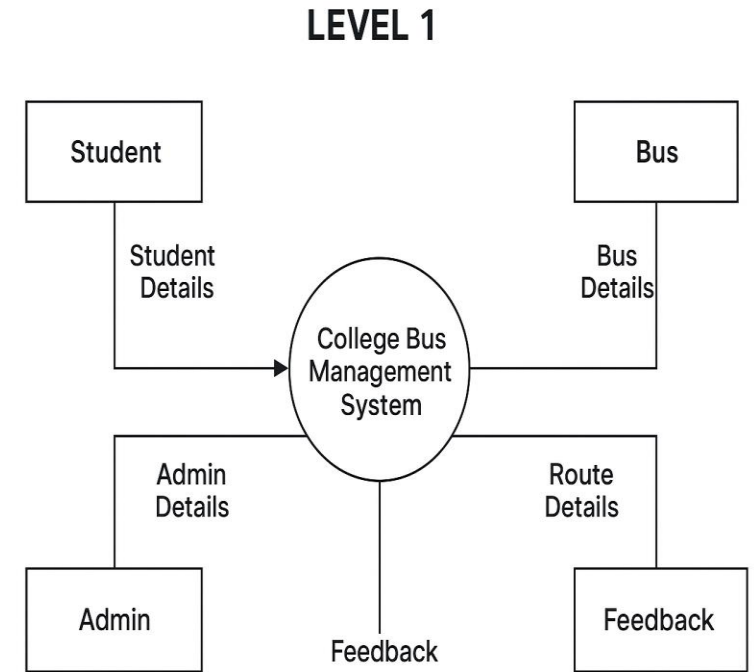
# ER DIAGRAM





# DFD

- *Levels of DFD*
- *1. Context Level (Level 0 DFD)*
- *This is the top view of the system*
- • *External Entities:*
- *Student*
- *Admin*
- *System: CampRide – College Bus Management System*
- *Data Flow:*
- *Student → Registration/Feedback/Bus Inquiry → System*
- *System → Bus Allocation/Notifications/Updates → Student*
- *Admin → Manage Bus/Routes/Students → System*
- *System → Reports/Student List/Complaints → Admin*



# TABLES

## Database Tables for CampRide

### 1. Admin Table

Field Name	Data Type	Description
admin_id	INT (PK)	Unique ID for admin
username	VARCHAR(50)	Admin login username
password	VARCHAR(100)	Encrypted password
email	VARCHAR(100)	Admin email



## 6. Feedback / Complaint Table

Field Name	Data Type	Description
feedback_id (PK)	INT	Unique feedback ID
student_id (FK)	INT	Student who submitted
message	TEXT	Feedback/complaint message
date_submitted	DATE	Date of submission

## 2. Student Table

Field Name	Data Type	Description
student_id	INT (PK)	Unique ID for student
name	VARCHAR(100)	Student full name
email	VARCHAR(100)	Student email (for login)
phone	VARCHAR(15)	Contact number
department	VARCHAR(50)	Student's department
password	VARCHAR(100)	Encrypted password
bus_id (FK)	INT	Bus assigned to student