

### Student(user)

<u>Student_ID</u>	NIC	First_Name	Last_Name	Date_of_Birth	Address	Mobile_Number	Email_Address	Faculty	Emergency_Contact_Name	Emergency_Contact_Number

### Bus owner

<u>Owner_ID</u>	NIC	Owner_name	Address	Mobile_number	Email_address	Emergency_Contact_Name	Emergency_Contact_Number

### Bus

<u>Bus_ID</u>	Model	License_Plate_Number	Seating_Capacity	Last_Maintenance_Date	Current_status(In service or out of service)	Owner_ID(Foreign key to bus owner)

### Driver

<u>Driver_ID</u>	First_Name	Last_Name	Date_of_Birth	Contact_Number	Driver's License_Number	Certification_Details	Emergency_Contact_Name	Emergency_Contact_Number

### Route

<u>Route_ID</u>	Starting_Point	Ending_Point	Stops(List of stops in route)	Schedule(Departure time for each stop)

### Trip

<u>Trip_ID</u>	Date	Time	Driver_ID	List_Of_Students on board(if applicable)	Bus_ID(Foreign key to bus)	Route_ID(Foreign key to route)

### Location

<u>Location_ID</u>	Timestamp	Latitude	Longitude	Bus_ID(Foreign key to bus)

---

### Parents/Guardians

<u>Guardian_ID</u>	Fisrt_Name	Last_Name	Contact_Number	Email_Address	Student_ID(Foreign key to student)

### Incidents

<u>Incident_ID</u>	Date	Time	Description	Resolution_Status	Bus_ID(Foreign key to the Bus)

### Notification

<u>Notification_ID</u>	Sender(Admin,Driver,System)	Recipient(Parent,Student)	Message	Timestamp	Status(Delivered,Read,Unread)

### User Account (for system administration, bus owners, drivers, parents, students)

<u>User_ID</u>	User_Name	Password	Role(Admin,Driver,Parent,Student)	Contact_Number