**Blue Bird Internal System**

**Object Definition Language**

**class** Order (**extent** Order) {

**attribute** string ID;

**attribute** DateTime orderDate;

**attribute** string customerID;

**attribute** string driverID;

**attribute** string vehicleID;

**attribute** string paymentID;

**attribute** string pickupLocation;

**attribute** string pickupNotes;

**attribute** string destinationLocation;

**attribute** string destinationNotes;

**attribute** DateTime pickupDate;

**attribute** int passengers;

**attribute** TimeSpan travelDuration;

**attribute** int distanceTravelled;

**attribute** int price;

**attribute** bool completed;

**relationship** Customer made\_by **inverse** Customer::makes;

**relationship** Driver picked \_by **inverse** Driver::picks\_up;

**relationship** Vehicle specifies **inverse** Vehicle::specified\_by;

**relationship** Payment paid\_by **inverse** Payment::pays;

}

**class** Driver (**extent** Driver) {

**attribute** string ID;

**attribute** string name;

**attribute** string KTP;

**attribute** string phoneNumber;

**attribute** string email;

**attribute** string password;

**attribute** string vehicleID;

**relationship** **list**<Order> picks\_up **inverse** Order::picked\_by;

**relationship** Vehicle assigned\_to **inverse** Vehicle::assigned\_to;

}

**class** Vehicle (**extent** Vehicle) {

**attribute** string ID;

**attribute** string type;

**attribute** int seats;

**attribute** int baseFee;

**attribute** int rate;

**relationship** Driver assigned\_to **inverse** Driver::assigned\_to;

**relationship** Order specified\_by **inverse** Order::specifies;

}

**class** BlueBird **extends** Vehicle (**extent** BlueBird) {

}

**class** SilverBird **extends** Vehicle (**extent** SilverBird) {

}

**class** BigBird **extends** Vehicle (**extent** BigBird) {

}

**class** Customer (**extent** Customer) {

**attribute** string ID;

**attribute** string name;

**attribute** string email;

**attribute** string phoneNumber;

**attribute** string password;

**relationship** **list**<Order> makes **inverse** Order::made\_by;

**relationship** **list**<Payment> does **inverse** Payment::done\_by;

}

**class** Payment (**extent** Payment) {

**attribute** string ID;

**attribute** string customerID;

**attribute** string paymentMethod;

**attribute** int price;

**attribute** int payment;

**attribute** int change;

**attribute** DateTime date;

**relationship** Order pays **inverse** Order::paid\_by;

**relationship** Customer done\_by **inverse** Customer::does;

}

**class** Admin (**extent** Admin) {

**attribute** string ID;

**attribute** string name;

**attribute** string email;

**attribute** string password;

}