Runner group needs a web application where they will display their ***products*** (motorcycles). Each motorcycle has ***an id, model no, colour, brand name, price*.** ***Customers*** will be able to sign up and log in. When signing up they need to provide their ***name, username, email, password, address, phone number, credit card number.*** They can also add products in ***shopping cart*** and check out their shopping cart. Each shopping cart has ***customer id who owns it, list of zero or more products, total number of items, total price***. The customer will be able to search for a product by its model no, colour, brand name or price range. An ***admin*** will be assigned by Runner group to take charge of the application. He can add, modify and delete ***employees*** of Runner group. When creating an employee, a employee must have ***everything like customer except credit card number including joining date, type and salary***. He can also check for sales and marketing logs and generate sales and marketing reports from them. ***Sales log*** includes the ***id of the product which is sold, the employee id who sold it, to buying dealers name, dealers address, how many products sold, and date of sale.*** The ***marketing log*** will have ***employee id, type of marketing method, money spent on marketing and date.*** He will be able to add, modify and delete product information. The sales and marketing employees can also log in. They can store their sales and marketing logs through the application.

Note: The italic and bold are for database ER diagram and schema and the underlined are functional requirements.