

BeSpoked Bikes

BeSpoked Bikes is looking to create a sales tracking application. BeSpoked is a high-end bicycle shop and each salesperson gets a commission for each bike they sell. They are introducing a new quarterly bonus based on sales as an incentive.

They are asking you to design a simple sales tracking application to help track the commission and determine each salesperson’s quarterly bonus.

They will need at a minimum the following components:

* Data layer
  + Entities
    - Products – Name, Manufacturer, Style, Purchase Price, Sale Price, Qty On Hand, Commission Percentage
    - Salesperson – First Name, Last Name, Address, Phone, Start Date, Termination Date, Manager
    - Customer – First Name, Last Name, Address, Phone, Start Date
    - Sales – Product, Salesperson, Customer, Sales Date
    - Discount – Product, Begin Date, End Date, Discount Percentage
    - Seed with sample data for testing
* Middle tier
  + Allows for client access to the data layer
* Client
  + Display a list of salespersons
  + Update a salesperson
  + Display a list of products
  + Update a product
  + Display a list of customers
  + Display a list of sales. Optionally filter by date range. This should include the Product, Customer, Date, Price, Salesperson, and Salesperson Commission.
  + Create a sale
  + Display a quarterly salesperson commission report
* Additional Requirements
  + Products – No duplicate product can be entered.
  + Salespersons – No duplicate salesperson can be entered.

Non-functional Requirements

* Publish the source code to an online source code repository of your choosing.
* Optional: Host in Azure.