



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.