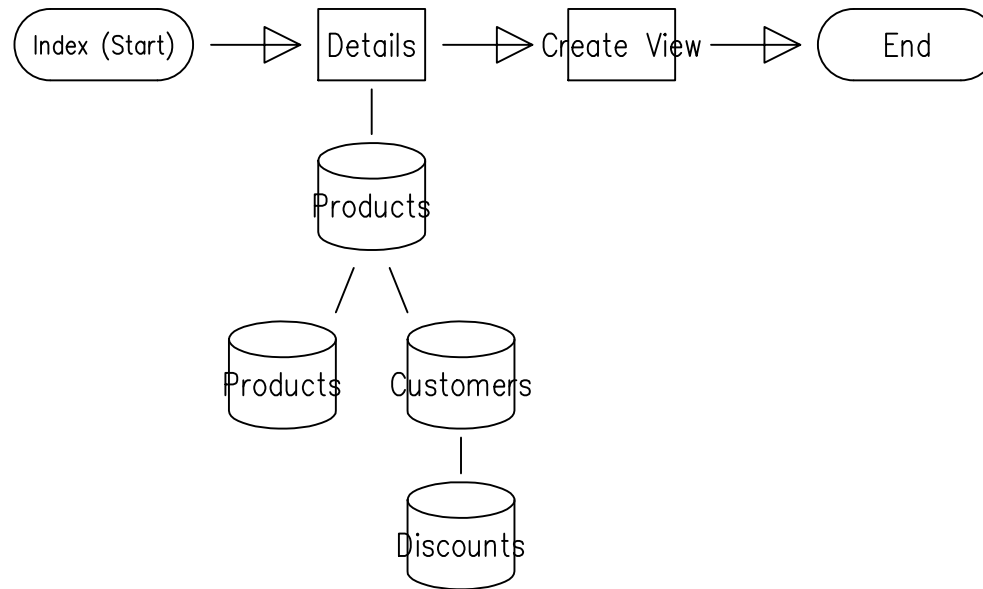Make a simple program for calculating the price of a product based on the following criteria:
- A list of products with standard prices
- A list of customers with discount agreements.

Explain how the program can be extended to cater for different discounts types like volume discount and special product offers. Show the extension points with interfaces, inheritance or other well known software patterns.

To cater for different discount types you can simply replace or add more items in the Discounts class