

Homework 3 – OO Programming Exercise (1)

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The design philosophy focuses on the the abstract class Customer and the three concrete classes Tool, Inventory and Rental.

A Customer is instantiated as either a Regular, Business or Casual. These three concrete classes override the rental conditions in the abstract customer class.

The three other primary concrete classes are

Tool: twenty tools

Rental: contained by Customer Has Unique ID. 1 rental per customer. A customer can have many rentals. Rental can have 1 to 3 tools.

totalRentalFee is set by the computeRentalFeeMethod

Inventory: has list of available tools and rentals. Twenty tools many rentals.

The store maintains the Customer List and Inventory object. Store has 10 customers 1 inventory object.

