

Exploring the Command Design Pattern

you are to implement the Command design pattern. Design a simple MenuItem class that stores only two pieces of information - the name of a menu item, and whether it is a vegetarian dish or not. Then implement a Menu class that maintains a collection of MenuItem objects (i.e., as an aggregator). The Menu class should have methods to allow menu items to be added and removed. It should also have a method that returns an array of strings containing all of the menu items so that they can be displayed. Finally, the Menu class should have a method that returns how many of the items on the menu are vegetarian dishes.

Design a simple text-based user interface that provides the following commands,

Main Menu

- 1 – Add Item
- 2 – Remove Item
- 3 – Display Items
- 4 – Display Number of Vegetarian Items

UML Diagram on following page

