Vacuum Robot Application

Create a command-line application simulate Vacuum Robot Application. The application has a menu that the user can select what to do. It will be displayed like in:

Vacuum Robots Operations
What do you want to do?
1. Add new robot top fleet
2. Select robot
3. Quit

>>>

User can enter selection on the >>> prompt:

Command Options

1. Add new robot
   User will be presented with a series of questions he needs to answer regarding the new robot:
   o Robot ID: a string name for the robot.
   o Robot model
     ▪ Present a menu to select from
     ▪ Displays a list of supported models

   The application needs to create a new robot object with the given properties and add it to the collection of robots.

2. Choose robot –
   The application needs to present all existed robots (show only the robots ID)
   o After the user chose a robot, he would be presented with a robot commands menu.
     The robot commands menu include the following operations
     ▪ Clean – call operation clean
     ▪ Reboot – call operation reboot
     ▪ Delete – delete the robot from the robot collection
     ▪ Back to the main menu
3. Quit – the application terminate

Design

- Use object-oriented principles to design the menu most flexibly.
- In your design, think about extensions we may want to add to the application. E.g. support new robot models, support more sub-menus.