

Project Organization

-(package) indi.yuanyuam.proj1.model : Hold the properties of the car

+ (class) Automobile: hold the car configuration

The methods in this class includes: setters and getters for name, make , model and base price, and print method to print the whole set.

+ (class) OptionSet: option set of car configuration

The class that can hold name of the model, base price and information about all the properties. The methods in this class includes: setters and getters for name and price, update method for name and price, and print method to print the whole set.

In addition, there is the inner class called Option.

+ (inner class) Option: options for each option set

The methods in this class includes: setters and getters for name, make , model and base price, and print method to print the whole set.

-(package) indi.yuanyuam.proj1.util: package for Util

+ (class) FileIO: built the Automobile object, serialize and deserialize the object

The methods in this class includes the following methods:

+ “buildAutoObject” can built an Automobile object by reading in a txt file.

+ “readProperty” is used to create the properties object by the property file

+ “serializeAuto” is used for serializing Automobile object while + “derializeAuto” is used for deserializing Automobile object.

-(package) indi.yuanyuam.proj1.adapter

+ (interface) CreateAuto:

+ "buildAuto ": create an Automobile object by txt file or Properties file

+ "printAuto" : searches and prints the properties of a given Automobile

+(interface) UpdateAuto:

Include two methods: update the option set name and price

+(interface) FixAuto

Include the method: fixAuto

+(class) BuildAuto

This class extends ProxyAutomobile, implement CreateAuto, FixAuto, and UpdateAuto interfaces.

+(extract class) ProxyAutomobile

This class contains all the implementation of any method declared in the interface.

- (package) indi.yuanyuam.project.exception

+ (class):ExceptionEnum

This is an enum class for enumeration all exceptions

+ (class): AutoException

+ (class): Helper

Includes the method fixing all exception listed in CustomExceptionEnum.

- (package) indi.yuanyuam.project.scale

+ (class): EditOption

Includes the methods to update the option set name, option name and option price through threads.

+ (class): AutoException

This is an enum class for enumeration all objects need to edit

- (package) indi.yuanyuam.project.server

+ (interface): AutoServer

Implemented by BuildAuto

Includes the methods to create Automobile Object :

+ “createAutoByProperty ” : Method to accept properties object from client socket over an and create an Automobile. Then add that created Automobile to the LinkedHashMap

+ “createAutoByTxt” : Method to accept txt file from client socket over an ObjectOutputStream and create an Automobile. Then add that created Automobile to the LinkedHashMap

+ “getAllModelList” : return all available automobile in LinkedHashMap

+ “sendSelectedModel” : return selected model to client

+ (class):DefaultSocketServer

This class extends Thread implements SocketServerInterface, SocketServerConstants

This class mainly includes the methods that dealing with session (open, handle and close).

+ (class) : Server

This class interacts with client using DefaultSocketServer.

+ (class): SocketServerConstants

Define the port for this client and a boolean value indicating whether start debug model

+ (class): SocketServerInterface

Includes the methods that are used to deal with sessions

+ “openConnection”

+ “handleSession”

+ “closeSession”

Ps. All the methods in class “OptionSet” and “Option” are protected and variables in class “Automobile”, OptionSet” and “Option” are private. Other class can not access the optionset and option directly (must access them by Automobile

class).