

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:

Include two methods: buildAuto and printAuto;

+(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.client

+ (class): CarModelOptionsIO

Includes the methods to communicate with the server:

- + “transferPropertiesToServer ” : Read data from the Properties file; create properties object, using the load method, which transfers the object from the client to server, using ObjectOutputStream.
- + “transferTxtToServer” : Read data from the txt file then transfers from the client to server
- + “verify” : Receive a response from the Server, verifying that the Car Model object is created successfully.
- + “buildAuto” : Use CreateAuto interface to build Automobile and handle different type of files, passed in file type.
- + (class): DefaultSocketClient
This class is used to interact with server. It mainly includes the methods that dealing with session (open, handle and close).
- + (class) : SelectCarOption
This class allows the user to select a model and enter its respective options. Display the selected options for a class.
- + (interface): SocketClientConstants
Define the port for this client and a boolean value indicating whether start debug model
- + (interface): SocketClientInterface
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).