**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.

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

+ (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.

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- (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 UpdateAutoi interfaces.

+(extract class) ProxyAutomobile

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

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- (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.

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- (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

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- (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 ObjectStream.

+ “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).