

FOR THE SERVER(SAME AS V5):

## model Package:

### Vehicle Class implements Serializable:

#### Properties(all private):

comps : ArrayList<Component>

chos : ArrayList<Option>

base : float

type : String

make : String

model : String

year : int

#### Methods(all public):

Vehicle()

Vehicle(String, float, int)

getCost():float

getType():String

getTotal():float

getMake():String

getModel():String

getYear():int

setMake(String):void

setModel(String):void

setYear(int):void

setCost(float):void

setType(String):void

getComp(int):Component  
getCompChose(String):String  
getCompCost(String):float  
setCompChose(String,String):void  
changeCompNameInd(int, String):void  
changeCompName(String, String):void  
changeOptionPrice(String, String, float):void  
newComp(String, String[], float[], int):void  
findComp(String):Component  
findCompInd(String):int  
addComponent(String, String[], float[]):void  
indModComponent(String, String[], float[], int):void  
namModComponent(String, String, String[], float[], int):void  
removeCompName(String):void  
removeCompInd(int):void  
printComponent(int):String  
printlnfo():void

## Component Class implements Serializable:

### Properties(all private):

chosen : Option  
opts : Option[]  
name : String

### Methods(all protected):

Component()  
Component(String, String[], float[])

setName(String):void  
getName():String  
setChosen(String):void  
setOptPrice(String, float):void  
getChosen():Option  
getNumOpts():int  
getOptNameInd(int):String  
getOptCostInd(int):float  
isChosenInd(int):boolean  
addOpt(String, float):void  
indModOpt(String, float, int):void  
namModOpt(String, String, float, int):void  
findOpt(String):Option  
findOptInd(String):int  
removeOptionName(String):void  
removeOptionInd(int):void  
getOpt(int):Option

**Option Class implements Serializable:**

**Properties(all private):**

cost : float

name : String

**Methods(all protected):**

Option()

Option(String, float)

getPrice():float

getName():String

setPrice(float):void  
setName(String):void

## util Package:

### FileIO Class:

#### Methods(all public):

newCarFromFile(String):model.Vehicle throws VehicleException  
newCarFromProps(String):model.Vehicle throws VehicleException  
storeProperties(Properties prop):String  
serializeCar(Vehicle):void  
deserializeCar(String):model.Vehicle  
hasLetters(String):boolean

## adapter Package:

### CreateVehicle Interface:

#### Methods(all public):

BuildVehicle(String):void  
printAuto(String) :void

### UpdateVehicle Interface:

#### Methods(all public):

updateComponentName(String, String, String):void  
updateOptionPrice(String, String, String, float):void  
chooseOption(String,String,String):void

## ProxyVehicle Abstract Class:

### Properties(all private, static):

garage:LinkedHashMap<String,Vehicle>

### Methods(all public):

BuildVehicle(String, int):void

buildFromProp(Properties):void

printAuto(String) :void

getModel(String):Vehicle

getModels():ArrayList<String>

updateComponentName(String, String, String):void

updateOptionPrice(String, String, String, float):void

chooseOption(String,String,String):void

**BuildVehicle Class(extends ProxyVehicle implements all adapter package interfaces and is empty)**

## editoptions Package:

**EOThread Class extends ProxyVehicle implements Runnable**

### Properties(all private):

EO:Thread

model:String

params:String[]

todo:int

no:int

## Methods:

EOThread(String,int,String[],int)

run():void

start():void

synchronized updateComponentName(String,String):void

synchronized updateOptionPrice(String,String,float):void

synchronized chooseOption(String,String):void

## exception Package:

VehicleException Class extends Exception:

Properties(both private):

errorno:int

message:String

## Methods(all public):

VehicleException(int, String)

fix(String):void

getErrorNo():int

getErrorMessage():String

Fix1to15 Class:(Contains fix methods for errorno's 1-5)

No Properties

## Methods(all public):

fix1(String):void

fix2(String):void

fix3(String):void

fix4(String):void  
fix5(String):void  
fix6(String):void  
fix7(String):void  
fix8(String):void  
fix9(String):void  
fix10(String):void  
fix11(String):void  
fix12(String):void  
fix13(String):void  
fix14(String):void  
fix15(String):void

## client Package:

defaultSocketClient Class extends Thread:

Properties(all private):

objReader:ObjectInputStream  
objWriter:ObjectOutputStream  
sock:Socket  
strHost:String  
iPort:int

Methods(all public):

defaultSocketClient(String, int)  
run():void  
openConnection():boolean  
handleSession():void  
closeSession():void  
sendOutput(Object output):void  
handleInput(Object input):void

setHost(String):void  
setPort(int):void  
Static main(String args[]):void

## server Package:

defaultClientSocket Class extends Thread:

Properties(all private):

objReader:ObjectInputStream  
objWriter:ObjectOutputStream  
sock:Socket  
use:BuildVehicleModel

Methods(all public):

defaultClientSocket(Socket)  
run():void  
openConnection():boolean  
handleSession():void  
closeSession():void  
sendOutput(Object output):void  
handleInput(Object input):void

Server Class:

Properties(all private):

serve:ServerSocket

Methods(all public):

server()  
server(int)



run():void

Static main(String args[]):void

## VehicleServer Interface:

### Methods(all public):

buildFromProp(Properties):void

getModel(String) :vehicle

## BuildVehicleModel Class extends ProxyVehicle implements VehicleServer:

is an Empty class

FOR THE SERVLETS IN DYNAMIC WEB PROJECT:

## client Package:

### defaultSocketClient Class:

### Properties(all private):

objReader:ObjectInputStream

objWriter:ObjectOutputStream

sock:Socket

strHost:String

iPort:int

### Methods(all public):

defaultSocketClient(String, int)

openConnection():boolean

getModels():ArrayList<String>

getAModel(String):Vehicle

handleSession():void  
closeSession():void  
sendOutput(Object output):void  
handleInput(Object input):void  
setHost(String):void  
setPort(int):void

## model Package:

### Vehicle Class implements Serializable:

#### Properties(all private):

comps : ArrayList<Component>  
chos : ArrayList<Option>  
base : float  
type : String  
make : String  
model : String  
year : int

#### Methods(all public):

Vehicle()  
Vehicle(String, float, int)  
getCost():float  
getType():String  
getTotal():float  
getMake():String  
getModel():String

getYear():int  
setMake(String):void  
setModel(String):void  
setYear(int):void  
setCost(float):void  
setType(String):void  
getComp(int i):Component  
getCompName(int):String  
getOptionName(int, int):String  
getOption(int, int):String  
numOptions(int):int  
getCompChose(String):String  
getCompCost(String):float  
setCompChose(String,String):void  
changeCompNameInd(int, String):void  
changeCompName(String, String):void  
changeOptionPrice(String, String, float):void  
newComp(String, String[], float[], int):void  
findComp(String):Component  
findCompInd(String):int  
addComponent(String, String[], float[]):void  
indModComponent(String, String[], float[], int):void  
namModComponent(String, String, String[], float[], int):void  
removeCompName(String):void  
removeCompInd(int):void  
printComponent(int):String  
printlnfo():void

## Component Class implements Serializable:

### Properties(all private):

chosen : Option

opts : Option[]

name : String

### Methods(all protected):

Component()

Component(String, String[], float[])

setName(String):void

getName():String

setChosen(String):void

setOptPrice(String, float):void

getChosen():Option

getNumOpts():int

getOptNameInd(int):String

getOptCostInd(int):float

isChosenInd(int):boolean

addOpt(String, float):void

indModOpt(String, float, int):void

namModOpt(String, String, float, int):void

findOpt(String):Option

findOptInd(String):int

removeOptionName(String):void

removeOptionInd(int):void

getOpt(int):Option

## Option Class implements Serializable:

### Properties(all private):

cost : float

name : String

### Methods(all protected):

Option()

Option(String, float)

getPrice():float

getName():String

setPrice(float):void

setName(String):void

## servlets Package:

### carModels Class extends HttpServlet:

#### Properties(all private):

use : defaultSocketClient

#### Methods(all protected):

carModels()

doGet(HttpServletRequest, HttpServletResponse):void **throws** ServletException, IOException

doPost(HttpServletRequest, HttpServletResponse):void **throws** ServletException, IOException

### optionSets Class extends HttpServlet:

#### Properties(all private):

use : defaultSocketClient

Methods(all protected):

optionSets()

doGet(HttpServletRequest, HttpServletResponse):void throws ServletException, IOException

doPost(HttpServletRequest, HttpServletResponse):void throws ServletException, IOException

There is also custom.jsp in this project's web content folder