Class Diagram - Unit 4

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model package

Automobile extends Thread implements Serializable

properties:

- String make
- String model
- float basePrice
- ArrayList opSet
- ArrayList<Option> choice
- int numOpSets

methods:

+ Automobile()
+ Automobile(String)
+ Automobile(String, String, float, int, ArrayList<OptionSet>)
+ synchronized OptionSet findOptionSet(String)
+ String getMake()
+ String getModel()
+ float getBasePrice()
+ OptionSet getOptionSet(int)
+ ArrayList<OptionSet> getOpSet()
+ String getOpSetName(int)
+ Option getOption(choice(int))
+ String getOptionName(int)
+ float getOptionPrice(int)
+ int getTotalPrice()
+ void setMake(String)
+ void setModel(String)
+ void setBasePrice(float)
+ void setOpSet(ArrayList<OptionSet>
+ void setOneOpSet(OptionSet, int)
+ void setOpSetName(int, String)
+ void setOptionName(String, int, int)
+ void setOptionPrice(float, int, int)
+ void setOneOpSetOption(String, float, int, int)
+ void updateOpSetName(String, String)
+ void updateOptionPrice(String, float)
+ void deleteOptionSet(OptionSet)
+ void deleteOptionSet(String)
+ void deleteOption(OptionSet, int)
+ StringBuilder print()
+ void printMake()
+ void printModel()
+ void printBasePrice()
+ void printOpSet()
+ void printOneOpSet()
+ void printOption()

OptionSet extends Automobile implements Serializable

properties:

- String name
- ArrayList<Option> opt
- Option choice

methods:

OptionSet()
OptionSet(int)
OptionSet(String, int)
OptionSet(String, int, String[], float[])
+ void buildOption(int, String, float)
# String getOsetName()
# ArrayList<Option> getOptionIndex(int)
# int getOptionSize()
~~# String getOptionName(int)~~
String setOpName(int)
String getOptionChoiceName()
float getOpPrice(int)
float getOpChoicePrice(~~int~~)
Option getOption(choice())
void setOsetName(String)
void setOption(ArrayList)
void setOneOption(Option, int)
void setOptionName(String, int)
void setOptionPrice(float, int)
void setOptionChoice(String)
void renameOpSet(OptionSet, String)
void deleteOption(Option)
Option findOption(String)
+ StringBuilder print()
+ void printOption(int)
+ void printOptionName(int)
+ void printOptionPrice(int)

~adapter package

BuildAuto implements CreateAuto, UpdateAuto, EditThread
extends ProxyAutomotive

<<interface>> CreateAuto
+ void buildAuto(String)
+ void printAuto(String)

<<interface>> UpdateAuto
+ void updateOptionSetName(String, String, String)
+ void updateOptionPrice(String, String, String, float)

ProxyAutomotive <<Abstract class>>
Properties:
- LinkedHashMap<Integer, Automobile> lhm
- Automobile al
- int num
- Map m
Methods:
+ void editColor(String, Option)
+ void updateOptionSetName(String, String, String)
+ void updateOptionPrice(String, String, String, float)
+ void buildAuto(String)
+ void printAuto(String)

Debuggable

~util package

FileIO implements Serializable
Properties:
- String make
- String model
- float price
- int numOpSets
- FileReader fr
- BufferedReader bufr
- Properties props
- FileInputStream in
Methods:
+ FileIO(String)
+ Automobile buildAutoObject(String)
+ Automobile readFile()
+ void readProperties(String)
+ void serializeAuto(Automobile)
+ Automobile deserializeAuto()

~exception package

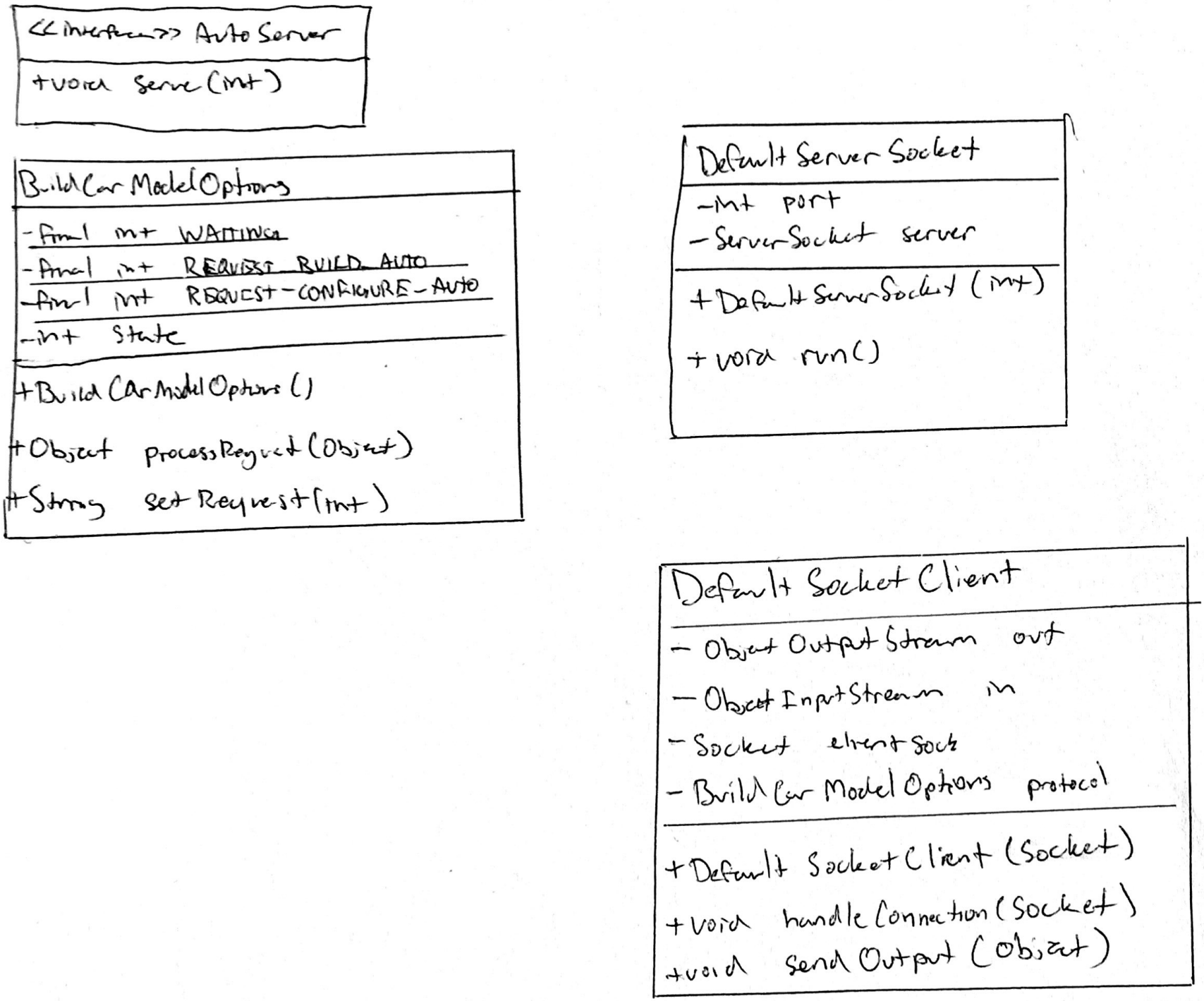
AutoException
#int errno
Fix001to100 f1

Fix001to100
extends AutoException

Fix101to200

<<interface>> FixAuto
+ boolean fix()

~ Server package



~client package

CarModelOptionsIO
Properties props StringBuffer sbuff
+ CarModelOptionsIO() + Object loadPropsFile(String) + Object loadTextFile(String)

SelectCarOptions
- Scanner in
+ SelectCarOptions() + void configureAuto(Object) + boolean isAuto(Object)

DefaultSocketClient extends Thread
- ObjectOutputStream out - ObjectInputStream in - BufferedReader stdin - Socket sock - String strHost - int iPort - CarModelOptionsIO clientFTP - SelectCarOptions clientProtocol
+ DefaultSocketClient(String, int) + void establishConnection() + void handleConnection + void sendOutput(Object) + void run()

~scale package

EditOptions extends ProxyAuto implements Runnable
int x Automobile a1 Thread t1 Thread t2
+ editOptions(int, Automobile) + void start() # void ops() + void run()

<<interface>> EditThread
+ void editColor(String, Option)