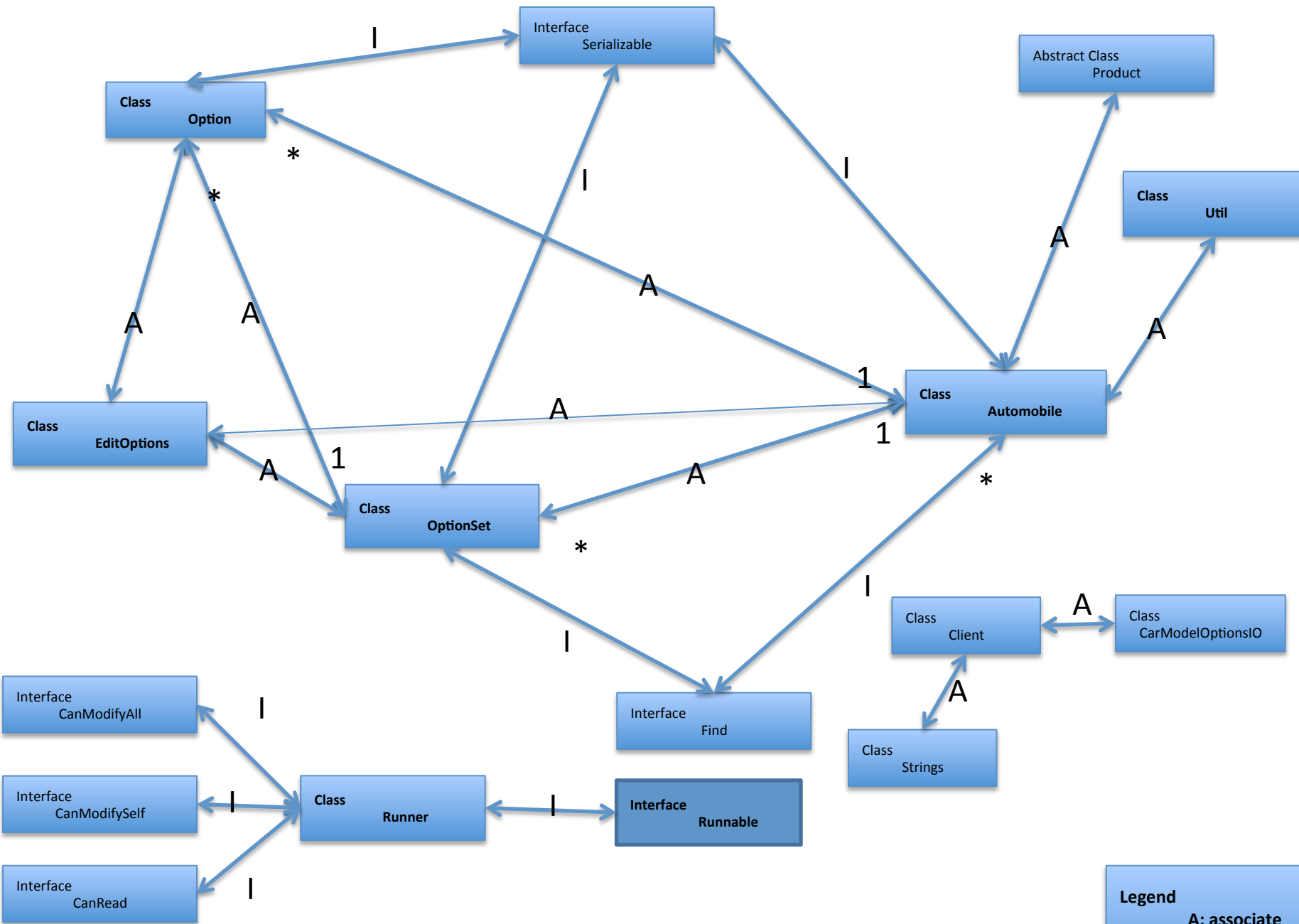


Server
















Legend

























A: associate
I: Implement
interface

Client

Class: Option

```
▼  Option
   SF serialVersionUID : long
   name : String
   price : int
   C Option()
   C Option(String, int)
   replaceOption(Option) : void
   getName() : String
   getPrice() : int
   setName(String) : void
   setPrice(int) : void
    toString() : String
```

Class: OptionSet

```
▼  OptionSet
   SF serialVersionUID : long
   name : String
   options : ArrayList<Option>
   C OptionSet()
   C OptionSet(String)
   C OptionSet(String, int)
   insertOption(Option) : void
   setName(String) : void
   insertOptionSet(OptionSet) : void
   setOptions(ArrayList<Option>) : void
   setOption(int, String, int) : void
   setOption(String, int) : void
   setOption(String, String) : void
   getOption(String) : Option
   getOptions() : ArrayList<Option>
   getName() : String
   getOptionPrice(String) : int
   findOption(String) : int
   deleteOption(String) : void
    toString() : String
    find(Object) : Object
```

Class: Automobile

```

G Automobile
  SF serialVersionUID : long
  □ modelName : String
  □ optionSetList : ArrayList<OptionSet>
  C Automobile()
  ● getMake() : String
  ● setMake(String) : void
  ● insertOptionSet(OptionSet) : void
  ● insertOption(OptionSet, Option) : void
  ● getOptionSetList() : ArrayList<OptionSet>
  ● getOptions(String) : ArrayList<Option>
  ● getOption(String, String) : Option
  ● getModelName() : String
  ● getBasePrice() : int
  ● setModelName(String) : void
  ● setBasePrice(int) : void
  ● setOptionSetList(ArrayList<OptionSet>) : void
  ● setOptionNameInOptionSet(OptionSet, String) : void
  ● setOptionsInOptionSet(OptionSet, ArrayList<Option>) : void
  ● updateOption(OptionSet, String, String) : void
  ● updateOption(OptionSet, String, int) : void
  ● deleteOptionSet(String) : void
  ● deleteOption(String, String) : void
  ● △ find(Object) : Object
  ● △ toString() : String
  ● getTotalPrice() : int
  ● △ calculatePrice() : int
```

Class: Util

```
▼ Util
  Util()
  serialize(Automobile, String) : void
  readSerializedFile(String) : Automobile
  writeFile(Automobile, String) : void
  readFile(String) : Automobile
```

Class: kbbSystem

```
▼ kbbSystem
  S autoLinkedHashMap : LinkedHashMap<String, Automobile>
  S insertionCount : int
  kbbSystem()
  getAutos() : LinkedHashMap<String, Automobile>
  insertAuto(Automobile) : void
  toString() : String
  find(Object) : Object
```

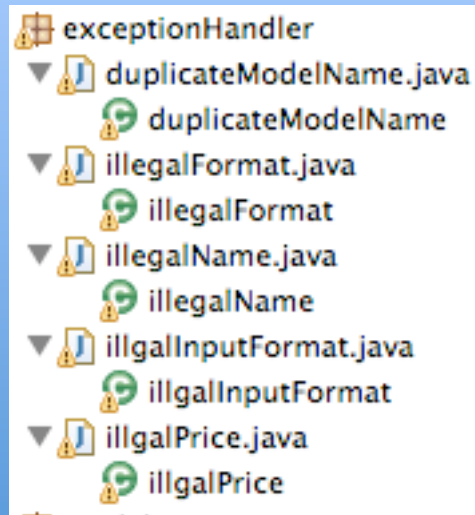
Abstract Class: Product

```
▼ Product
  make : String
  price : int
  calculatePrice() : int
```

Interface:

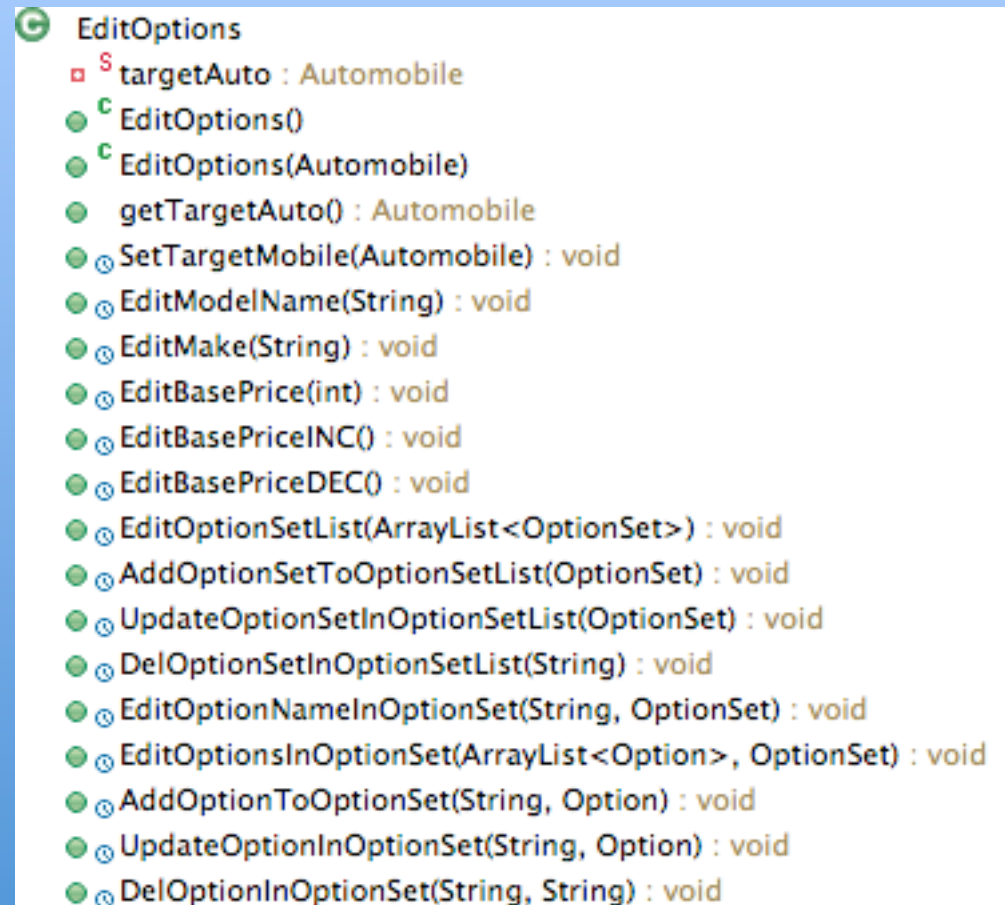
```
▼ CanModifyAll.java
  CanModifyAll
    modifyAll(kbbSystem) : void
▼ CanModifySelf.java
  CanModifySelf
    modifySelf(Automobile) : void
▼ CanRead.java
  CanRead
    read(Automobile) : String
▼ Find.java
  Find
    find(Object) : Object
```

Exception Handler



```
exceptionHandler
├── duplicateModelName.java
│   └── duplicateModelName
├── illegalFormat.java
│   └── illegalFormat
├── illegalName.java
│   └── illegalName
├── illegalInputFormat.java
│   └── illegalInputFormat
└── illegalPrice.java
    └── illegalPrice
```

EditOptions



```
EditOptions
  S targetAuto : Automobile
  G EditOptions()
  G EditOptions(Automobile)
  G getTargetAuto() : Automobile
  G S SetTargetMobile(Automobile) : void
  G S EditModelName(String) : void
  G S EditMake(String) : void
  G S EditBasePrice(int) : void
  G S EditBasePriceINC() : void
  G S EditBasePriceDEC() : void
  G S EditOptionSetList(ArrayList<OptionSet>) : void
  G S AddOptionSetToOptionSetList(OptionSet) : void
  G S UpdateOptionSetInOptionSetList(OptionSet) : void
  G S DelOptionSetInOptionSetList(String) : void
  G S EditOptionNameInOptionSet(String, OptionSet) : void
  G S EditOptionsInOptionSet(ArrayList<Option>, OptionSet) : void
  G S AddOptionToOptionSet(String, Option) : void
  G S UpdateOptionInOptionSet(String, Option) : void
  G S DelOptionInOptionSet(String, String) : void
```

CarModelOptionsIO

```
G CarModelOptionsIO
  S main(String[]) : void
```

BuildCarModelOptions

```
G BuildCarModelOptions
  S processInput(ObjectInputStream) : Boolean
```

Strings

```
G Strings
  S FILEIN : String
  S RECEIVING : String
  S MODELIN : String
  S OPTIONIN : String
  S CONT : String
  S SHOW : String
  S SUPP : String
  S FORMATERR : String
  S ANSWERS : String[]
```

Protocol

```
G Protocol
  S INIT : int
  S IDLE : int
  S BUILD : int
  S DISPLAYM : int
  S EDITM : int
  S INPUT : int
  S EDITOS : int
  state : int
  answers : String[]
  processInput(Object) : String
```

Client

```
G Client
  S createSocket() : void
```

Server

```
G Server
  S serverSocket : ServerSocket
  S main(String[]) : void
```