Creating AddressBook operations

We will now add two operations to the *AddressBook* class, one to put an entry into an *AddressBook* and another to look up an address for a name.

To add a put Operation to AddressBook

- 1. Click on the *AddressBook* symbol on the Class Diagram. Click on the little **Create Element** button at the top right of the Class symbol, and select **Operation**.
- Type put as the name of the Operation and, inside the parentheses, type the parameter list nam e: String, address: String, then press Return.
- 3. Click on the new put Operation, and, in the Alf editor window, press Create.
- 4. Type the Alf code shown in the following figure.

AddressBook	-entries	Entry		
operations	0*	attributes		
put(name : String, address : String)		+name : String +address : String		
		operations «Create»+Entry(name : String, address : String		
C Alf				
Alf		<u>م</u>		
put				
<pre>lentry = this.entries->sel</pre>	ect e (e.name =	== name)[1];		
2 if (entry == null) {				
3 this.entries->add(new	Entry(name, add	iress));		
4 } else {				
5 entry.address = addre	33;			
6 } 7				
1				
		Create Save Revert		

5. When the text is correct, press Save.

To add a get Operation to AddressBook

- 1. Click on the *AddressBook* symbol on the Class diagram. Click on the little **Create Operation** button to the top right of the *Operations* compartment.
- For the operation and its signature, enter get(name: Sting): String[0..1] and press Return. (Make sure you don't leave the default "()" at the end of what you enter.)
- 3. Click on the get Operation, and, in the Alf editor window, press Create.
- 4. Type the Alf code shown in the following figure.

AddressBook	-entries		Entry	
operations put(name : String, address : String) get(name : String) : String [01]		+name : String +address : String	attributes	
	l	«Create»+Entry(na	operations me:String, ad	Idress : String)
Alf				¥ ×
get				
		Create	Save	Revert

5. When the text is correct, press Save.



You may want to consider yourself how to code a *remove(name: String)* Operation that removes an entry from an *AddressBook*.

Related Pages

- The Alf editor
- Using Alf for Operation
- methods



Next: Testing the AddressBook