LibCAT Class Diagram
*Builder Pattern**

PACKAGES

BUILDER

LIBRARY

PATRON

RESOURCE

CLIENT

LibraryCatalog

DIRECTOR

Director

- bookBuilder : BookBuilder = new ConcreteBookBuilder()
- movieBuilder : movieBuilder = new ConcreteMovieBuilder()
- patronBuilder : PatronBuilder = new ConcretePatronBuilder()

+ constructBook(List<String>) : Resource
+ constructMovie(List<String>) : Resource
+ constructPatron(List<String>) : Resource

BUILDER

<<Interface>>
PatronBuilder

+ getResult() : Patron
+ reset() : void
+ setAddress(Address) : void
+ setEmail(String) : void
+ setId(int) : void
+ setName(String) : void
+ setPhone(String) : void

CONCRETE BUILDER

ConcretePatronBuilder

- patron : Patron

+ getResult() : Patron
+ reset() : void
+ setAddress(Address) : void
+ setEmail(String) : void
+ setId(int) : void
+ setName(String) : void
+ setPhone(String) : void

PRODUCT

Patron

- address : Address
- email : String
- id : int
- name : String
- phone : String

+ setAddress(Address) : void
+ setEmail(String) : void
+ setId(int) : void
+ setName(String) : void
+ setPhone(String) : void

BUILDER

<<Interface>>
ResourceBuilder

+ getResult() : Resource
+ reset() : void
+ setCreator(Person) : void
+ setFormat(Format) : void
+ setId(int) : void
+ setLength(double) : void
+ setTitle(String) : void
+ setType(String) : void
+ setYear(int) : void

BUILDER

<<Interface>>
MovieBuilder

+ setCast(List<Person>) : void
+ setRating(String) : void

BUILDER

<<Interface>>
BookBuilder

+ setCity(String) : void
+ setPublisher(String) : void

CONCRETE BUILDER

ConcreteMovieBuilder

+ getResult() : Resource
+ reset() : void
+ setCast(List<Person>) : void
+ setCreator(Person) : void
+ setFormat(Format) : void
+ setId(int) : void
+ setLength(double) : void
+ setRating(String) : void
+ setTitle(String) : void
+ setType(String) : void
+ setYear(int) : void

CONCRETE BUILDER

ConcreteBookBuilder

+ getResult() : Resource
+ reset() : void
+ setCity(String) : void
+ setCreator(Person) : void
+ setFormat(Format) : void
+ setId(int) : void
+ setLength(double) : void
+ setPublisher(String) : void
+ setTitle(String) : void
+ setType(String) : void
+ setYear(int) : void

PRODUCT

Resource

- creator : Person
- format : Format
- id : int
- length : double
- title : String
- type : String
- year : int

+ setCreator(Creator) : void
+ setFormat(Format) : void
+ setId(int) : void
+ setLength(double) : void
+ setTitle(String) : void
+ setType(String) : void
+ setYear(int) : void

Movie

- castList : List<Person>
- rating : String

+ setCastList(List<Person>) : void
+ setRating(String) : void

Book

- publisher : String
- city : String

+ setPublisher(String) : void
+ setCity(String) : void

* Builder Pattern participants are labelled in red capital letters on top of classes.