**NodeSecurity**

Business Rules

1. a USER can have one or more assigned ROLE(s)
2. a ROLE is associated with many PERMISSION(s)

USER

1

has

ROLE

N

1

has

PERMISSION

N

{

"user": "Jane",

"roles": [{

"role1": "1"

},

{

"role2": "2",

"permissions": [{

"permissionA": "A"

},

{

"permissionB": "B"

}

]

}

]

}

**NodeBookCo**

AUTHOR

author\_first\_name

author\_last\_name

author\_phone

author\_email

1

has

BOOK

book\_isbn

book\_name

book\_price

N

1

has

PUBLISHER

publisher\_code

publisher\_name

publisher\_address

},

1

{

"author\_first\_name": "Mister",

"author\_last\_name": "Clean",

"author\_phone": "111-222-3333",

"author\_email": "clean@mr.com",

"books": [{

"book\_isbn": "987654321",

"book\_name": "Hello and Hi",

"book\_price": "27.99",

"publisher\_code": "P001"

},

{

"book\_isbn": "123456789",

"book\_name": "Goodbye and Bye",

"book\_price": "99.72",

"publisher\_code": "P002"

}

],

"publishers": [{

"publisher\_code": "P001",

"publisher\_name": "USApublisher",

"publisher\_address": "123 Main st"

},

{

"publisher\_code": "P002",

"publisher\_name": "AmericanPublisher",

"publisher\_address": "456 Main st"

}

]

}