**PYSECURITY**

**Business Rules:**

a USER can have many LINK\_USER\_ROLE(s)

a LINK\_USER\_ROLE has one USER

a LINK\_USER\_ROLE has one ROLE

a ROLE can have many LINK\_USER\_ROLE(s)

a ROLE can have many LINK\_USER PERMISSION(s)

a LINK\_USER\_PERMISSION can have one ROLE

a LINK\_USER\_PERMISSION can have one PERMISSION

a PERMISSION can have many LINK\_USER\_PERMISSSION(s)

**NoSQL Data Structure:**

{

“user”: {

“\_id”: 123,

“first\_name”: “John”,

“last\_name”: “Doe”,

“password”: “password123”

“link\_user\_role”: [

{

“department”: “development”,

“category”: “engineer”,

“role”: [

{

“type”: “administrator”,

“date\_started”: “01/01/2021”,

“link\_role\_permission”: [

{

“access”: “no”,

“class”: “public”,

“permission”: [

{

“entry”: “denied”

}

]

}

]

}

]

}

]

}

}