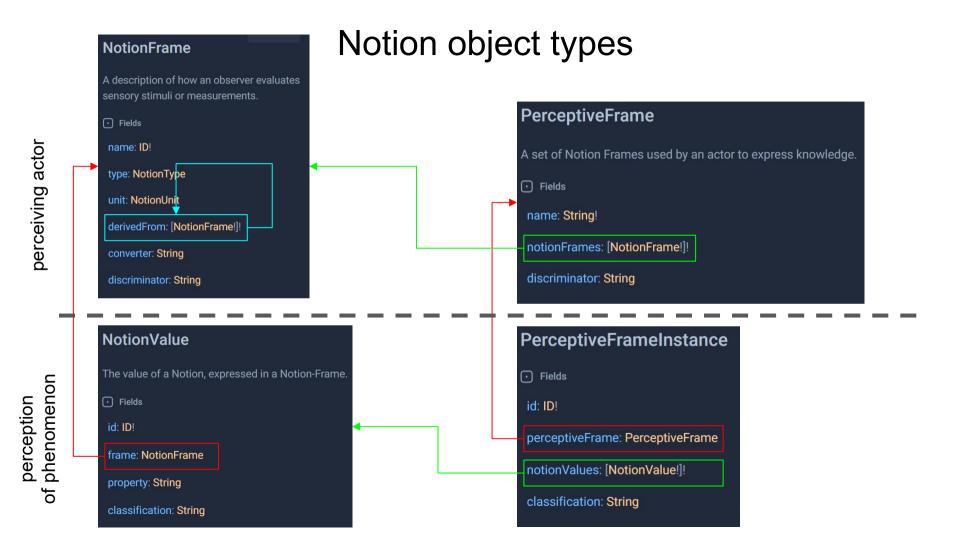
Notions API

Python/GraphQL implementation



perception

NF_Date_of_birth

```
createNotionFrame (
                                                                     "createNotionFrame": {
 name: "NF_Date_of_birth",
                                                                       "name": "NF_Date_of_birth",
                                 This notion frame is
                                                                       "type": "DATE",
                                  not derived from
                                                                       "unit": "DAY",
                                 other notion frames.
                                                                       "derivedFrom" []
                                                                       "converter": "from dateutil import parser\n\ndef converter_function(args):\n
                                                                                                                                                       return
 from dateutil import parser
                                                                 parser.parse(args['date of birth'])",
                                                                       "discriminator": "def discriminator function(arg):\n
                                                                                                                               return None"
 def converter_function(args):
      return parser.parse(args['date_of_birth'])
 def discriminator_function(arg):
                                               Converter function transforms
      return None
                                              ISO-8601 datetime string into a
                                                       datetime object
  name
                  Discriminator function
                      is not relevant
 derivedFrom
 converter
 discriminator
```

NV_Date_of_birth

```
mutation NV Date of birth {
                                                                          "data"
  createNotionValue(
                                                                            "createNotionValue": {
    id: "NV_Date_of_birth_001"
                                                                              "id": "NV_Date_of_birth_001",
    frame: "NF_Date_of_birth";
                                                                              "frame": {
    args: [{
                                                                                "name": "NF_Date_of_birth"
                                       Reference to
      key: "date_of_birth",
                                       notion frame
      value: "1953-03-01"
                                                                              "property": "1953-03-01 00:00:00",
                                                              Q
                                                                              "classification": null
                             ISO-8601
    id
                           datetime string
    frame {
                                                                                                   ISO-8601
                                                                                                 datetime string
      name
    property
    classification
```

NF_Actual_date

```
createNotionFrame(
                                                                     "createNotionFrame": {
 name: "NF_Actual_date",
                                                                       "name": "NF_Actual_date"
 type DATE
 converter """
                                                         Q
 from dateutil import parser
 def converter_function(args):
     return parser.parse(args['actual_date'])
 discriminator """
 def discriminator_function(arg):
     return None
 name
```

NV_Actual_date

```
mutation NV_Actual_date {
                                                                      "data"
  createNotionValue(
                                                                        "createNotionValue": {
    id: "NV_Actual_date_001",
                                                                          "id": "NV_Actual_date_001",
    frame: "NF_Actual_date",
                                                                          "frame": {
    args: [{
                                                                            "name": "NF_Actual_date"
      key: "actual_date",
      value: "2024-08-13"
                                                                          "property": "2024-08-13 00:00:00",
                                                            Q
                                                                          "classification": null
    id
    frame {
      name
    property
    classification
```

NF_Legal_age

```
Derived from two other
name: "NF Legal age"
                                                                                  "name": "NF_Legal_age",
                                      notion frames
derivedFrom: ["NF_Date_of_birth", "NF_Actual_date"]
                                                                                      "name": "NF_Date_of_birth"
def converter function(args):
   nv date of birth = args["NV Date of birth"]
                                                                                      "name": "NF_Actual_date"
   nv_actual_date = args["NV_Actual_date"]
   birth_date = nv_date_of_birth.property
   actual_date = nv_actual_date.property
   return int((actual_date - birth_date).days//365.24)
                                        Computes the difference
from enum import Enum
                                        of the two dates in days
                                          and transforms it to
class AgeClass(Enum):
   CHILD = "CHILD"
                                                  years
   ADULT = "ADULT"
def discriminator_function(age):
    return AgeClass.CHILD if age < 18 else AgeClass.ADULT
....
                                       Determines the age
name
derivedFrom {
                                       class: child or adult
```

NV_Legal_age

```
createNotionValue(
                                               Reference to two
                                                                                         "createNotionValue": {
  id: "NV_Legal_age_001"
                                                notion values
                                                                                           "id": "NV_Legal_age_001",
  frame: "NF_Legal_age"
                                                                                           "property": "71",
 args
                                                                                          "classification": "ADULT"
    {key: "NV_Date_of_birth", value: "NV_Date_of_birth_001"},
    {key: "NV_Actual_date", value: "NV_Actual_date_001"}]
                                                                           O
                                                                                            Resulting property
  id
                                                                                          value and classification
  property
  classification
```

NF_Legal_gender

```
createNotionFrame(
 name: "NF Legal gender",
                                                       "name": "NF_Legal_gender",
                                                       "type": "GENDER",
                                                       "unit": "NONE",
                                                       "converter": "from enum import Enum\n\nclass Gender(Enum):\n MALE = \"MALE\"\n FEMALE =
 from enum import Enum
                                                  \"FEMALE\"\n\ndef converter_function(args):\n return args['gender']",
                                                        class Gender(Enum):
                                                  \"FEMALE\"\n\ndef discriminator_function(gender):\n return gender"
    MALE = "MALE"
    FEMALE = "FEMALE"
 def converter function(args):
    return args['gender']
 from enum import Enum
 class Gender(Enum):
    MALE = "MALE"
    FEMALE = "FEMALE"
 def discriminator_function(gender):
    return gender
 derivedFrom {
```

NV_Legal_gender

```
mutation NV_Legal_gender {
                                                                  "data" |
  createNotionValue(
                                                                    "createNotionValue": {
    id: "NV_Legal_gender_001"
                                                                      "id": "NV_Legal_gender_001",
    frame: "NF_Legal_gender"
                                                                      "frame": {
    args: [
                                                                         "name": "NF_Legal_gender",
      {key: "gender", value: "FEMALE"}
                                                                         "unit": "NONE"
                                                                       "property": "FEMALE",
    id
                                                                       "classification": "FEMALE"
    frame {
      name
      unit
    property
    classification
```

PF_Legal

```
name: "PF Legal"
                                                                            "name": "PF Legal".
notionFrameNames: ["NF_Legal_age", "NF_Legal_gender"],
from enum import Enum
                                                                               "name": "NF_Legal_age"
class AgeClass(Enum):
   CHILD = "CHILD"
                                                                               "name": "NF_Legal_gender"
   ADULT = "ADULT"
class Gender(Enum):
                                                                            "discriminator": "from enum import Enum\n\nclass AgeClass(Enum):\n CHILD =
                        Discriminator script is
   MALE = "MALE"
                                                                      \"CHILD\"\n ADULT = \"ADULT\"\n\nclass Gender(Enum):\n MALE = \"MALE\"\n FEMALE =
   FEMALE = "FEMALE"
                              based on the
                                                                      \"FEMALE\"\n\nclass Person(Enum):\n WOMAN = \"WOMAN\"\n MAN = \"MAN\"\n GIRL =
                                                                      \"GIRL\"\n BOY = \"BOY\"\n\ndef discriminator function(notion frames, notion values):\n
                         discriminators of the
class Person(Enum):
                                                                      WOMAN = "WOMAN"
                        derived notion frames
                                                                      notion values.get('NF Legal age')\n age = int(nv legal age.property)\n age class =
   MAN = "MAN"
                                                                      nf_legal_age.discriminator(age)\n nv_legal_gender = notion_values.get('NF_Legal_gender')\n
   GIRL = "GIRL"
                                                                        gender = Gender(nv_legal_gender.property)\n if gender.name is Gender.FEMALE.name:\n
   BOY = "BOY"
                                                                         if age class.name is AgeClass.ADULT.name:\n
                                                                                                                            return Person.WOMAN\n
                                                                                                                                                      return
                                                                      Person.GIRL\n else:\n
                                                                                                   if age class.name is AgeClass.ADULT.name:\n
                                                                                                                                                      return
def discriminator_function(notion_frames, notion_values):
                                                                      Person.MAN\n
                                                                                        return Person.BOY"
   nf_legal_age = notion_frames.get('NF_Legal_age')
   nv legal age = notion values.get('NF Legal age')
   age = int(nv_legal_age.property)
   age_class = nf_legal_age.discriminator(age)
   nv_legal_gender = notion_values.get('NF_Legal_gender')
   gender = Gender(nv legal gender.property)
   if gender.name is Gender.FEMALE.name:
       if age class.name is AgeClass.ADULT.name:
           return Person.WOMAN
       return Person.GIRL
   else:
       if age_class.name is AgeClass.ADULT.name:
           return Person.MAN
       return Person.BOY
```

PFI_Legal

```
createPerceptiveFrameInstance(
                                                                                           "createPerceptiveFrameInstance": {
  id: "PFI_Legal_001",
                                                                                             "id": "PFI_Legal_001",
  perceptiveFrameName "PF_Legal",
                                                                                             "perceptiveFrame": {
                                                                                               "name": "PF Legal"
    "NV_Legal_age_001",
    "NV_Legal_gender_001"
                                                                                                                                  NF_Legal_age
classification
                                                                                                  "frame"
  perceptiveFrame {
                                                                                                                                 Legal
                                                                                                    "name": "NF_Legal_age"
                                                                                                  "property": "71",
  notionValues {
                                                                                                                                 뿔
                                                                                                  "classification": "ADULT"
    frame {
      name
                                                                                                                                 gender
                                                                                                  "frame"
                                                                                                                                 Legal_gendeclassification
    property
                                                                                                    "name": "NF Legal gender"
    classification
                                                                                                  "property": "FEMALE",
  classification
                                                                                                  "classification": "FEMALE"
                                                                                                                                 뿔
                                                                                             "classification": "WOMAN"
                                                                                                        PF_Legal classification
```