ZuthaNova Entity Hierarchy

# Internal Type Hierarchy

The internal Hierarchy should be kept to a minimum. It defines types which affect the core behaviour of items on the site.

The internal type will affect which raw fields (like date or string) an item has and which relationships it is allowed in. User-Defined types may further limit allowed relationships, though.

* Item: name, description, worth, …
  + Event
    - CreateEvent: newItemId, newItem
    - DeleteEvent
    - BlessObjectEvent: item, type
    - UnblessObjectEvent
    - BlessRelationshipEvent
    - UnblessRelationshipEvent
    - RelateEvent
    - UnrelateEvent
    - ModifyEvent
    - Promotion
    - Demotion
    - InvestmentPurchase
    - InvestmentSale
  + User: username(overrides name)
  + Category: child\* [category], parent\*[category],associated\_type? (string), associated\_role?(string)
  + <Argument Mapping>
    - Contention
    - Reason
    - Objection
  + Communication
    - Pole: candidate [item]
    - Debate
    - Problem
    - Solution
    - Message
      * Question
      * Answer: answers [question]
      * Comment: about [item]
      * Feedback
        + Suggestion
        + Complaint
    - Document
  + Resource
    - Internet Resource: uri
      * Digital Object: doi (overrides uri)
      * Web Page: url (overrides uri)
      * Web Site: url (overrides uri)
  + Place
    - Location: address
    - Region: uri(string), region (string)
  + Collection: part [item]
    - Document Collection: part\* [document]
    - Compendium: part\* [publication]
    - Album: part\* [musical composition]
  + Agent
    - Character: appears\_in
    - Person
    - Social group
      * Organisation
        + Company: product\*[product], industry\*[Industry]
        + Political party: policy\*
      * Society
      * Social movement
      * gathering
  + Creation: creator, creation\_date
    - Construction
    - Product:
      * Software Product: category [software category]
      * Physical Product: brand, type [product type]
    - Work: author (overwrites creator), category,source\*
      * Publication: publication\_date, title (overwrites name), publisher
        + Book
      * Film: producer, genre [film genre] (overwrites category)
      * Artwork
      * Musical Composition: genre [musical genre] (overwrites category)
        + Album
        + Song: album [album]
        + Music Video
      * Literary Composition
        + poem

# User-Defined Type Hierarchy

User Defined Types are manifested as items of type “Category”

The top of the User-Defined Type Hierarchy will be a read-only hierarchy of the Internal Types. These items will be represented by the “Type” type.

When a user wants to define the category of an item – say, define a product as of type “Mountain Bike” – a javascript generated tree of options may be drawn from the node “Product Type”. The category chosen will also be restricted by InfoGrid to be of type “Product Type”.

The category items under the “Product Type” item may appear in multiple other places.

[Sometimes, a Type which was defined by a user as a Type item, may be granted internal Type status because it is realised that there are fields that would be desirous to associate with it.] – unsure of this.

* Category[Type]
  + Genre
    - Musical genre
    - Film genre
    - Literary genre
  + Software category
  + Product type[Type]
    - Instrumentation[Product Type]
      * Transport
        + Vehicle

Wheeled vehicle

Bicycle

Automobile

Craft

Aircraft

Hovercraft

Spacecraft

Watercraft

Manual Vehicle

Bicycle

Mountain bike

Road bike

Hybrid bike

Tandem bicycle

Motor vehicle

Automobile

* + - * + Litter
        + Trailer
        + Cargo vessel
      * Container
      * Device
      * Equipment
      * Hardware
      * Weaponry
      * System
    - Commodity/Good
      * Appliance
        + Sewing machine
        + Vacuum cleaner
        + Dishwasher
        + Clothes dryer
        + Washing machine
      * Groceries
        + Vegetable

Carrot

Pumpkin

* + - * + fruit
      * Clothing
      * Sporting goods
    - Decoration
    - Facility
    - Toy
  + Biological Type
    - Living thing
      * Organism
        + Plant
        + Animal
        + Fungus
        + virus
      * cell
  + Literary Type
    - Fiction
      * novel
      * fantasy
      * story
        + myth
        + parable
        + fairytale
        + nursery rhyme
    - poem
  + Organisation Type
    - Company
    - Political party
    - Troupe
  + Role[Type]
    - Creator[Role]
      * Author
    - Relation
      * Parent
      * Lover
      * Spouse
      * Sibling
    - Leader
      * CEO
    - Member
    - Communicator
      * Broadcaster
      * Alarmist
      * Informant
      * Correspondent

# Item Hierarchy

* <HOME>
  + Browse[category]
    - Types
      * Agent
        + Character
        + Person
        + Social group

Organisation

Company[category] – associated\_type:company

Political party

Society

Social movement

gathering

* + - * Thing[category]
        + Creation

Construction

Product[category] – associated\_type:product

Software Product

Physical Product…

Work

Publication

Compendium

Book

Volume

Magazine

Scientific Journal

Article

Scientific Article

Film

Artwork

Musical Composition

Album

Symphony

Song: album

Music Video

Literary Composition

* + - Subject Areas
      * Science
        + Physical Science

Physical Resources

* + - * + Computer Science

Computer Code

Software

Binary Code

Object Code

* + - * + Physics
      * Humanities[category]
      * Literature[category]
      * Business
        + Finance
* …Physical Product
  + Instrumentation[category]
    - Transport
      * Vehicle
        + Wheeled vehicle

Bicycle

Automobile

* + - * + Craft

Aircraft

Hovercraft

Spacecraft

Watercraft

* + - * + Manual Vehicle

Bicycle

Mountain bike

Road bike

Hybrid bike

Tandem bicycle

* + - * + Motor vehicle[category]

Automobile[category]

4 Wheel Drive[category]

Subaru Liberty[Physical Product] – creator:subaru

Bus

* + - * Trailer
      * Cargo vessel
    - Container
    - Device
    - Equipment
    - Hardware
    - Weaponry
    - System
  + Commodity/Good
    - Appliance
      * Sewing machine
      * Vacuum cleaner
      * Dishwasher
      * Clothes dryer
      * Washing machine
    - Groceries
      * Vegetable
        + Carrot
        + Pumpkin
      * fruit
    - Clothing
    - Sporting goods
  + Decoration
  + Facility
  + Toy

# Example Items

* Lies We Tell Kids
  + Type: article
  + Type: webpage
  + Author: Paul Graham
  + Category: