Context Resource

Community Repository

Block Composition
Parts-of-a-whole relationships

Vocabulary
Nest Level

0 1 2 3

utyfye fhrkgk yytyi figlglglg orufuf gjgjfkf

yytyi figlglglg primate fhrkgk

utyfye

Template Genealogy
Is-a relationships

Linguistic Term

Prototype Progeny

creature primate human passen

Base human Join

human human

Ancestor ◄──► Descendent

Attribute
Field values

Progeny passenger

Enumerated set of values

Define unit of measure

Define enumeration

List comprised of

Define term

Concatenation of

Context

Module

Plexus ──Composed of──►

Service

Collection
Nest Level

0 1 2 3

Root Branches Leaf

clearText

Transposed from

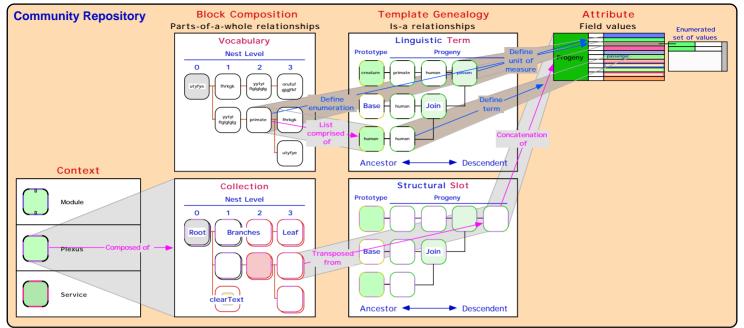### Structural Slot

Prototype Progeny

Base Join

Ancestor ◄──► Descendent

Context resource

A *component search* is based on *contexts* and their underlying *ontological schemas*. A community domain (such as pharmacy) establishes both *linguistic* and *structural* schemata. A linguistic schema establishes common terminology to confer [language-neutral] meaning to terms. A structural schema establishes common computational typed data, method behavior and object reference to confer meaning within a context. A ***context*** is composed of ***collection blocks*** that are transposed from ***slot template*** declarations. A ***slot template*** or ***term template*** is composed of a set of atomic ***attribute*** declarations of data. A *symbolic field* value can be selected from an enumerated list of valid choices; a *unit of measure* can be selected and appended to a number.

An ontology search may be based upon these six levels of granularity. For example, a 'passenger capacity' string search criteria would return all contexts that are composed of templates containing named slots with a text match. This search capability provides unprecedented ability to discover and reuse existing resources. CoreDesigner has an agent tool that can continuously search out and suggest available resources that match the criteria set by the developer, across communities and domains.