Florida International University
School of Computing and Information Sciences

Software Engineering Focus

Feature Document

User Story ID <NVOS-14 Ontology Search Function >

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Project: Envo Scholar

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USER STORY NAME: Ontology Search Function

- Description: As a user, I want access to a search function for the ontology, so that I can search for a specific concept.
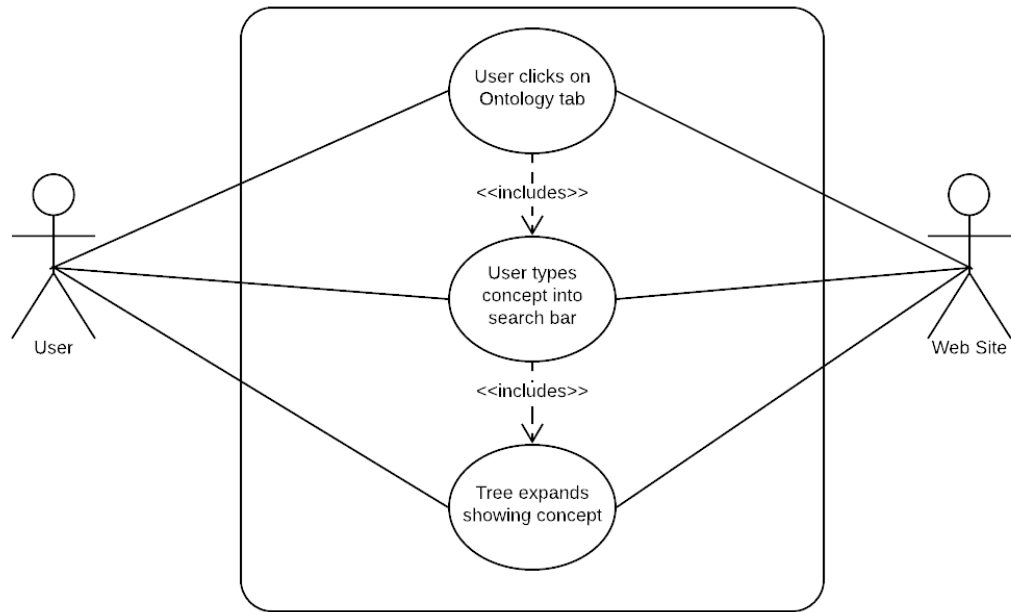
Acceptance Criteria

- User has pressed on the Ontology tab from the homepage
- The ontology page opens
- The user types the concept he/she is looking for in the search bar and the tree expands to the concept they typed.
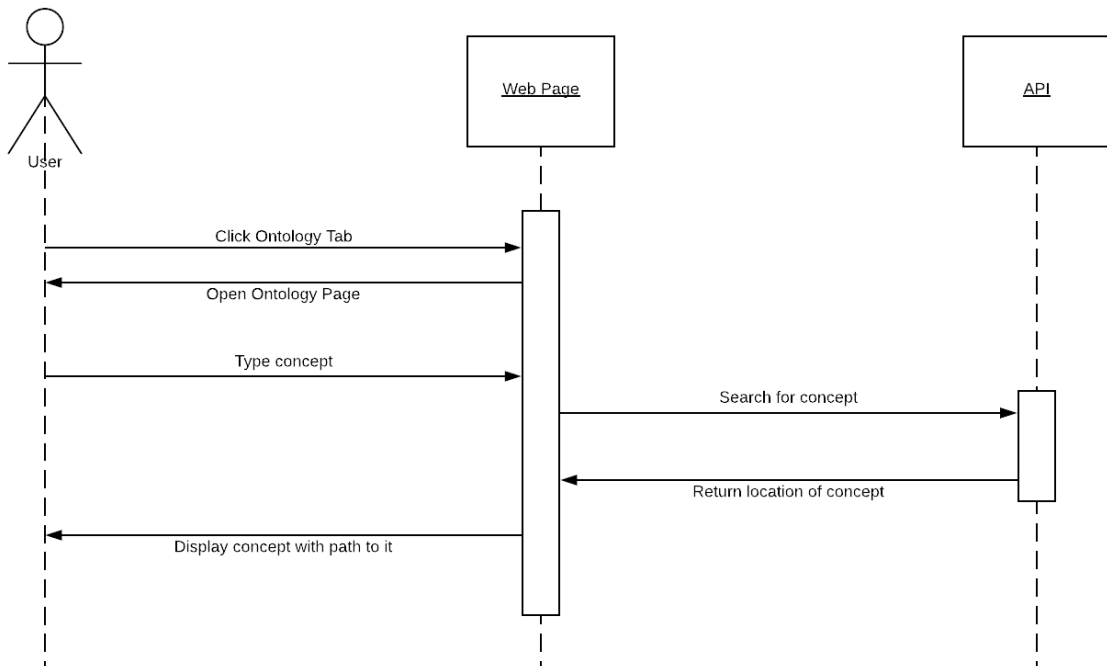
Use Case

- **Name**: Ontology Search Function
- **Actor**: User and Web page
- **Preconditions**: User has accessed the Envo Scholar website

    User has clicked on the Ontology tab
- **Postconditions**: User is able to type a concept into the search bar and click search

    The verticle tree will expand to the concept they searched for
- **Description** <Flow of events>:
    o   User accesses the Envo Scholar website
    o   User clicks on the Ontology tab
    o   Page changes from homepage to ontology
    o   User types a concept into the search bar
    o   The verticle tree will expand to the concept they searched for
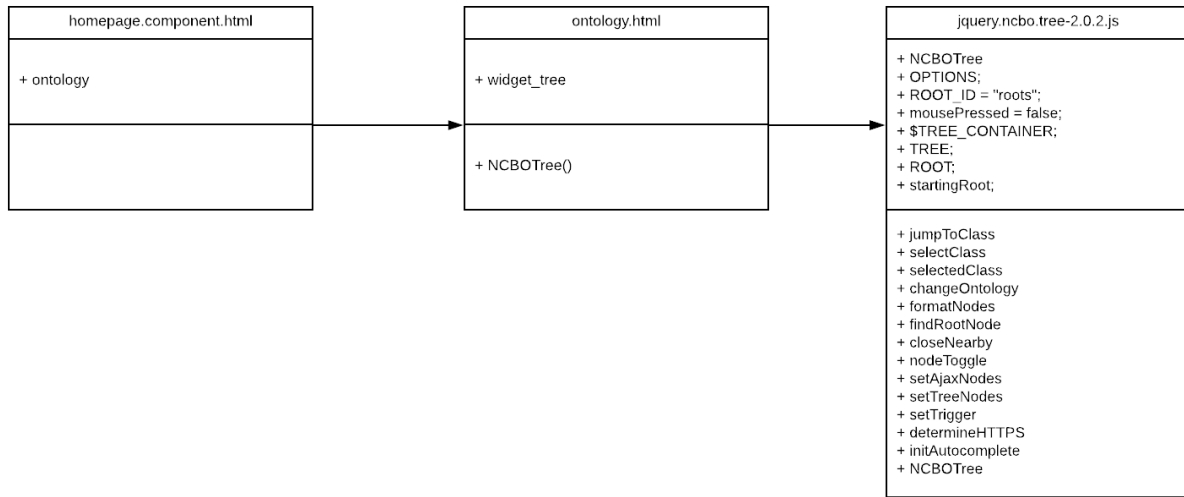
Use Case Diagram

User clicks on Ontology tab

<<includes>>

User types concept into search bar

<<includes>>

Tree expands showing concept

User

Web Site

Sequence Diagram

User

Web Page

API

Click Ontology Tab

Open Ontology Page

Type concept

Search for concept

Return location of concept

Display concept with path to it

Class Diagram

homepage.component.html
+ ontology

→

ontology.html
+ widget_tree
+ NCBOTree()

→

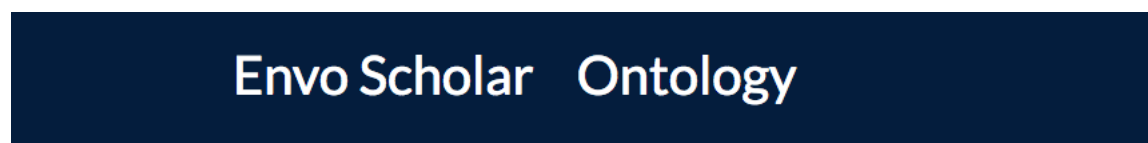| jquery.ncbo.tree-2.0.2.js |
| --- |
| + NCBOTree
+ OPTIONS;
+ ROOT_ID = "roots";
+ mousePressed = false;
+ $TREE_CONTAINER;
+ TREE;
+ ROOT;
+ startingRoot; |
| + jumpToClass
+ selectClass
+ selectedClass
+ changeOntology
+ formatNodes
+ findRootNode
+ closeNearby
+ nodeToggle
+ setAjaxNodes
+ setTreeNodes
+ setTrigger
+ determineHTTPS
+ initAutocomplete
+ NCBOTree |

Unit Test

- Test case ID: NVOS-14-Ontology-Search-Function
- Description/Summary of Test: User types a concept. The tree expands showing the path to that concept.
- Pre-condition: User types a concept.
- Expected Results: The tree expands showing the path to that concept.
- Actual Result: The tree expands showing the path to that concept.
- Status (Fail/Pass): Pass

Visual User Guide

foam

foam

sea **foam**

- independent continuant
  - anatomical entity
  - immaterial entity
  - material entity
    - anatomical cluster
    - atom
    - chemical entity
    - collection of specimens
    - environmental feature
    - environmental material
      - alluvium
      - animal litter
      - animal manure
      - anthropogenic environmental material
      - clay
      - emulsion
      - **foam**
      - fog
      - food material
      - food source
      - fume
      - gaseous environmental material
      - gravel
      - ice
      - lava
      - liquid environmental material
      - magma
      - marl
      - metallic material
      - mineral material