Florida International University
School of Computing and Information Sciences

Software Engineering Focus

USER MANUAL

Project Title: EnvoScholar v2.0

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There is one type of user of the system developed in this project, that is, researchers in the field of environmental science. Below is a description of how these this type of users can use the system.

1. Search on homepage with autocomplete

    (a) Open the EnvoScholar website

    (b) Double click on the search bar to see a list of concepts from the ENVO ontology

    (c) Begin typing a string and see a list of potential matching concepts from the ENVO ontology

    (d) Click on the concept or finish typing the concept into the search bar

    (e) Press the `Submit` button or press Enter on your keyboard

2. Change search with related concept

    (a) Once Step 1 is complete, user is taken to the display results page

    (b) Click on any of the concepts on top of the display results page to refresh the search results

3. Compare results with common academic search engines

    (a) Once Step 1 is complete, user is taken to the display results page

    (b) Click on the `View Results in Microsoft Academic` or `View Results in Microsoft Academic` buttons

4. View PDF of an article

    (a) Once Step 1 is complete, user is taken to the display results page

    (b) Click on the `View PDF` button

5. Log in to account

    (a) On the navigation bar, click on Account

    (b) Input account email and password

    (c) Click on the `Sign in` button

6. Create an account

    (a) On the navigation bar, click on Account

    (b) Click on `Sign up`

    (c) Input full name, account email, and password

(d) Click on the `Sign up` button

7. Save an article

   (a) Once Step 1 and 5 are complete, user is taken to the display results page

   (b) Click on the `Save` button

   (c) See confirmation that the article was properly saved

8. Share an article

   (a) Once Step 1 is complete, user is taken to the display results page

   (b) Click on the `Share` button

   (c) Select the social media outlet and follow the instructions on the respective social media platform

   (d) See confirmation that the article was properly shared

9. Provide positive feedback for an article

   (a) Once Step 1 is complete, user is taken to the display results page

   (b) Click on the up arrow to the left of the specific article

   (c) See the arrow turn green to confirm that it has been rated

10. Provide negative feedback for an article

    (a) Once Step 1 is complete, user is taken to the display results page

    (b) Click on the down arrow to the left of the specific article

    (c) See the arrow turn red to confirm that it has been rated

11. Filter search results on display results page

    (a) Once Step 1 is complete, user is taken to the display results page

    (b) Enter a date range into the fields the right of the page under the heading `Date Range`

    (c) See the page refresh with a more tailored search

12. Sort search results on display results page

    (a) Once Step 1 is complete, user is taken to the display results page

    (b) Click on the `Recency` or `Relevance` buttons to sort by Recency or Relevance, respectively

(c) See the page refresh with the sorted search

13. Provide feedback for EnvoScholar

    (a) Click on the `Feedback` button in the footer

    (b) Answer the question "How do you like the website?" prompted on the screen

    (c) Click the `Ok` button

    (d) Provide a response for the question "Rate your experience: 1-10" prompted on the screen

    (e) Click the `Ok` button

14. View information about specific article

    (a) Once Step 1 is complete, user is taken to the display results page

    (b) The user clicks on their article of choice and is taken to the article information page

    (c) See the article title, authors, abstract, and same options as in the display results page (i.e., `View PDF`, `Save`, `Cite`, `Share` buttons)

15. Visualization of text in article information page

    (a) Once Step 14 is complete, user is taken to the article information page

    (b) The user clicks on any of the concepts listed under the "Concepts" heading

    (c) See the sentences where that concept exists in the article abstract

16. Remove visualization of text in article information page

    (a) Once Step 15 is complete, user sees highlighted sentences in the abstract

    (b) Click on the `Remove Highlight` button

    (c) See the highlighting disappear

17. View the ontology

    (a) On the navigation bar, click on `Ontology`

    (b) See the initial treeview and node graph visualizations with the root concept being "entity"

18. Navigate the ontology

    (a) Once Step 18 is complete, user sees the visualization techniques on the ENVO ontology

(b) Click on any of the children in the treeview structure and watch the tree and node graph expand simultaneously

19. Search the ontology

    (a) Once Step 18 is complete, user sees the visualization techniques on the ENVO ontology

    (b) Enter string into the search bar

    (c) See a list of concepts that match the string

    (d) Hover or click on any of the concepts and see the ontology structure shown in both visualization techniques

20. View saved articles

    (a) Once Step 5 is complete, user can click on the `Account` button and be navigated to their profile

    (b) See the list of saved articles

21. View click history

    (a) Once Step 5 is complete, user can click on the `Account` button and be navigated to their profile

    (b) Click on the `Click History` button

    (c) See the list of clicked articles

22. View search articles

    (a) Once Step 5 is complete, user can click on the `Account` button and be navigated to their profile

    (b) Click on the `Search History` button

    (c) See the list of searched concepts

23. View feedback history

    (a) Once Step 5 is complete, user can click on the `Account` button and be navigated to their profile

    (b) Click on the `Feedback History` button

    (c) See the list of rated articles and their rating values represented by an green up arrow or a red down arrow