

# CoCoMap: Collaborative Concept Mapping and Discovery

## User Manual

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### **User**

People who participate in the system who can contribute to it in a variety of ways such as by introducing topics, posting to topics, making comments, tagging, grading posts etc. The users shall need to be registered to contribute to it.

### **Topic**

The main concept under which the content on the system shall be organized. Topics are user-typed strings that are used as the title also they consist of "posts", see the definition of "Post".

### **"Global view" of the application**

This is the main view of the application, where topics are presented inside circles, and the relations between topics are denoted with arrows.

### **Post**

Specific contributions of content to a topic enclosed into a block, containing the user's details and the date and time it was submitted.

## Relationship

Links built among two or more concepts by the users.

## Tag

Strings of limited length that are used for marking topics or posts. All tags are semantic which means all tag-related data is used from wikidata. (<https://www.wikidata.org>)

## Grading

Positive or negative feedback about a post, provided by other users.

## Main page

Main page is the page user can see "global view" of topics. When a user clicks to a topic on the global view, they are redirected to the infocus view of that clicked topic. There are recommended topics and recommended posts on the right side of the page. If the user logs in, recommended topics and posts are user-related; otherwise recommended topics are hot topics and recommended posts are recent posts. There is login/signup button on the right top of the main page that a user can login or register. Logged in user sees username button there instead of login/signup button. When they click to the username, logout button appears. There is a create topic button for logged in users at the top of the page that a user can create a topic.

## In focus page

A topic that is "in focus" is a topic that is in a special situation in the global view. When a user clicks on a topic in the global view, circle of the topic is highlighted and moved to the center of the screen, and topics related to the current topic are shown around the topic with relations denoted by arrows - this is what being "in focus" is. Only one topic can be "in focus" at a time. When a user clicks on a circle of a topic other than the focused topic,

user is redirected to the in focus view of that new clicked topic. If a user clicks on the circle of in focused topic, user is redirected to the topic page of that clicked topic. There is a zoom out button on the right top of the topics section that redirects to the global view. There are recommended topics and recommended posts on the right side of the page. There is login/signup button on the right top of the main page that a user can login or register. Logged in user sees username button there instead of login/signup button. When they click to the username, logout button appears.

## Topic page

Topic page is the page that belongs to a topic. Posts regarding the topic are shown in this screen in chronological order. Logged in user can post under this topic from this screen; they write post and optionally enter tags and press post button. Then, the published post appears at the end of post list of related topic. Logged in user also can grade topics by upvoting or downvoting them. The topic page can be reached through a variety of ways, i.e. from recommended topics, in focus screen. There is a zoom out button on the right top of the topic name section that redirects to the in focus view of the topic. There are recommended topics and recommended posts on the right side of the page. There is login/signup button on the right top of the main page that a user can login or register. Logged in user sees username button there instead of login/signup button. When they click to the username, logout button appears.

## Add Relation Page

Add relation page is the page that a user can add relations to different topics. This page is accessed from in focus page of a topic, so relation coming from that topic is directed to another topic with a relationship name. User can add at most 3 relationships in this page. There are recommended topics and recommended posts on the right side of the page. User sees username button there instead of login/signup button. When they click to the username, logout button appears.

## Create Topic page

This page is the page that a user can create new topic. User enters topic name, relationship name and related topic and semantic tags. User can enter up to 3 relationships at this page. When user hits the adding tag section, topic name related tags are offered at that section. If the user clicks to the checkbox over the publish button, they can add the first post of that topic created. When the user hits publish button the topic, its relations and first post(if entered) are published to the system. If the user clicks to the cancel, they are redirected to the page that they were before.

## Search

All the pages have search section at the bottom. When user enters 1 ore more characters to the search bar, related data coming from wikidata is recommended to the user. When the user clicks one of the results or clicks to the search button, they are redirected to the search results page.

## Search results page

Results coming from search are listed.

- Search algorithm includes searching by both tag and text (for text, search in the name of topic and in content of post).
- Search algorithm returns A in results if  $A \text{---} \text{---} > X$  and/or  $A \text{---} \text{---} > X$  when X is searched. ( $\text{---} \text{---} >$  means that there is relation between them, please note that this is done in one level. In case of  $U \text{---} \text{---} > A \text{---} \text{---} > X$ , U is not in the results list).
- The tag is searched in the tags and hidden tags of each tag and the matching ones are resulted in the screen. For a topic X which is labeled as Fadime Suna(wikidata ID:5429251), when athletics(wikidata ID:Q543) is searched, topic X is returned in the result list.
- Hidden tags are tags that are not directly added by the user and they are automatically added by the system to have more semantically related content, when a tag is added into a topic or a post.

## Login

Login page is the page that a user can login with their username and password. If a user that did not signup before tries to login, they fail. If they click the checkbox of remember me, browser remembers the user and no need to login again. There is also a signup button at the bottom of the screen that redirects to the sign up page.

## Signup

Signup page is the page that a user can signup with their username, email and password(entered twice). There is also a button at the bottom of the screen that redirects to login page.

## Logout

Logout is the page that a user is asked if they want to logout. They can logout by clicking the logout button at the center of the page.