

README

CS509
SAO
11/08/21

SITE

1. **Link:** <http://www-cs509-algo-hub.s3-website-us-east-1.amazonaws.com/>
2. **Recommendations**
 - a. **Browser:** Chrome

ORIENTATION

1. We have decided to create a single top-level classification for the sake of demonstration. Feel free to create as many top-level or nested classifications as you like during grading.
2. The middle panel of the screen will change dynamically depending on the type of item selected in the ontology.
 - a. If classification selected you will only see classification name
 - b. If algorithm selected you will see panel containing algorithm description
 - c. If implementation is selected you will see an upper panel containing implementation source code and a bottom panel containing a listing of problem instances.

PRIMARY TASK INSTRUCTIONS

1. Creating Account
 - a. Click **LOGIN** button at the top right of screen
 - b. At sign in page click **Create account**
 - i. Enter username, password, email and phone
 - ii. Enter confirmation code sent to email
 - c. Should now be returned to landing page with user name rendered in app header
2. Adding **CLASSIFICATION**
 - a. **Sign In** to enable object creation dropdown icon
 - b. **Hover** mouse over blue plus icon in right most screen panel
 - i. Click drop down item with name "Add Classification"
 - c. Fill out classification details
 - i. Note: Leave parent classification field empty to create new top level classification.
 - d. Click create
3. Adding **ALGORITHM**
 - a. **Sign In** to enable object creation dropdown icon
 - b. **Hover** mouse over blue plus icon in right most screen panel
 - i. Click drop down item with name "Add Algorithm"
 - c. Fill out algorithm details
 - d. Click create

4. Adding **IMPLEMENTATION**
 - a. **Sign In** to enable object creation dropdown icon
 - b. **Hover** mouse over blue plus icon in right most screen panel
 - i. Click drop down item with name "Add Implementation"
 - c. Fill out implementation details
 - d. Upload source code file
 - e. Click create

VISUAL INDICATIONS OF UPCOMING FEATURES

1. **X** icons located on the right side of ontology items will remove the ontology item (whether classification, algorithm, or implementation) when clicked. Note that confirmation dialog will first be rendered before actual deletion is performed.
2. When an implementation is selected in the ontology view, an additional "**Problem Instances**" panel will appear in the bottom center portion of the screen. At the top of this panel is a plus button which when clicked reveals the problem instance creation form. Feel free to try it out it! :)

FUN THINGS TO PLAY WITH!

1. Click clock icon at top right of screen (near login/logout button) to open sidebar containing benchmarks. Currently, benchmarks shown in sidebar are just for visual demonstration and are not tied to any particular algorithm implementation.
2. Checkout the buttons at the top of the ontology panel to see the forms for algorithm reclassification and classification merging among other things.
3. Sidebar containing ontology can be resized! Drag right side edge to the right to resize.
4. The implementation code panel can also be resized! Drag the top of the problem instance panel to resize.
5. Implementation code viewer will attempt to detect code programming language based on specified implementation programming language and apply syntax highlighting automatically.