

Product requirements

Target release	Nov 12, 2023
Epic	Upload images and map parts of the image to specified words/sentences to produce an interactive graphic in a way that is easy to use, localizable, and can eventually be integrated into C-LARA
Document status	DRAFT
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Document Maintenance

Maintenance Date	Changes
Sep 3, 2023	<ul style="list-style-type: none">Added requirements based on user stories we defined as a group after our first sprint planning meeting
Sep 20, 2023	<ul style="list-style-type: none">Added more specific details on the output file format requirement based on example JSON files sent by MannyAdded requirement related to sentence constructionAdded requirement for automatic border detection tools and "show annotated image set" functionality to the "Out of Scope" section based on adjustments we made to our scope after the second sprint planning meeting
Oct 19, 2023	<ul style="list-style-type: none">Shortened the description of requirements for clarityAdded 'Out of Scope' tableReorganized requirements table for space (deleted 'Functional/non-Functional' and 'Importance' column and replaced with a 'Labels' column)Moved some requirements to the 'Out of Scope' section

Success metrics


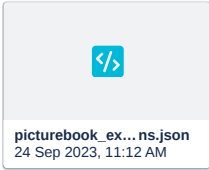
Goal	Metric
Help C-LARA become more accessible to learners of less-known languages	Interface of webpage adjusts to the needs of any chosen language
Easy to use to incentivize transcription	Intuitive for any user without technical expertise

Requirements

Breakdown of labels:

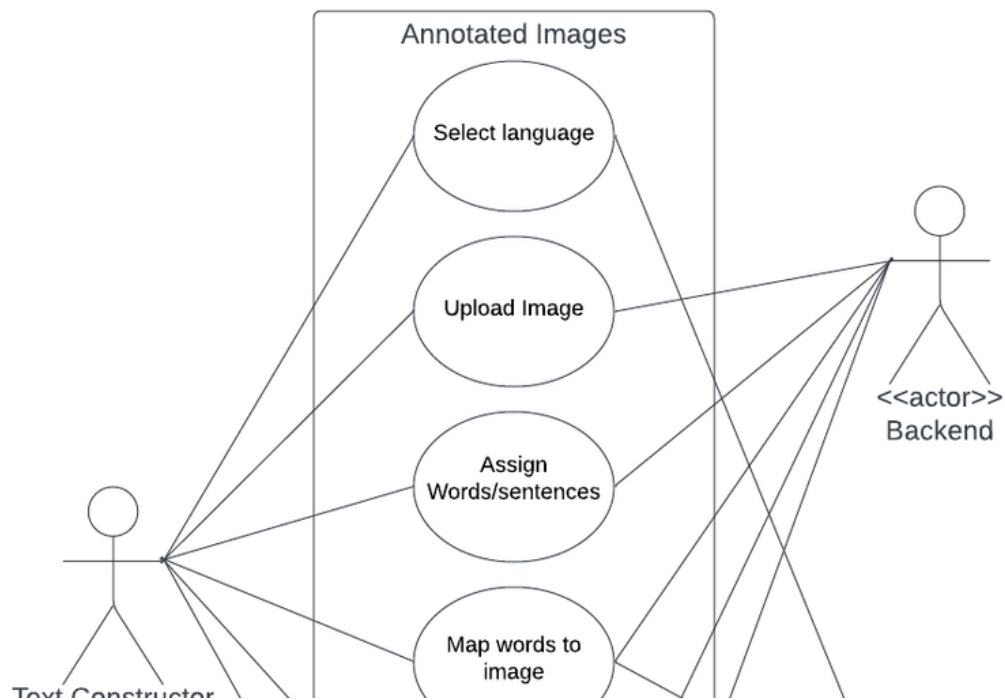
- Importance: HIGH / MEDIUM / LOW
- Requirement Type: NON-FUNCTIONAL / FUNCTIONAL

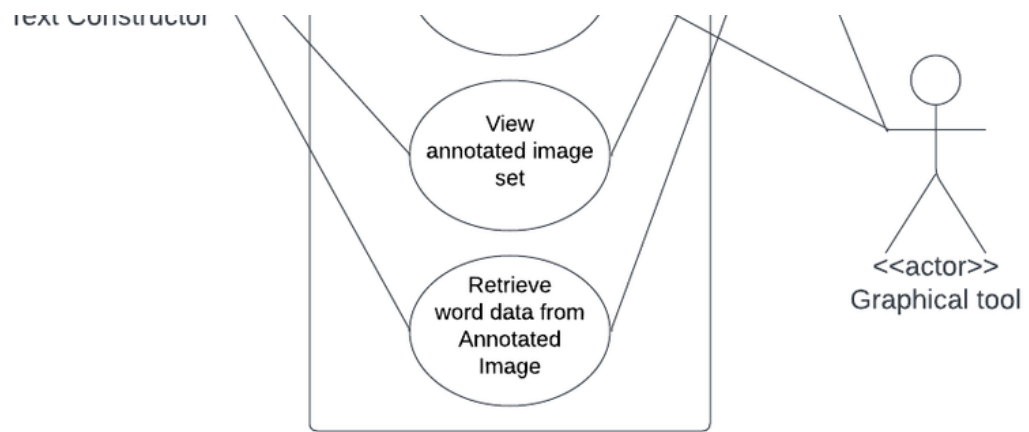
- Status: IN DEVELOPMENT / IMPLEMENTED / TESTED

Requirement	User Story/Explanation	Notes	Labels
	 User Stories		
Fast and intuitive annotation process	As a text constructor, I want the the annotation process to be easy, intuitive and fast, so that I can create LARA texts regardless of limited technical experience		MEDIUM NON-FUNCTIONAL IMPLEMENTED
Easy to navigate webpage	As a text constructor, I want the interface of the webpage to be straightforward to navigate, with buttons that clearly indicate how to move between pages		MEDIUM NON-FUNCTIONAL IMPLEMENTED
Compatible with C-LARA	As a developer for C-LARA, I want to be able to easily integrate this graphical tool into C-LARA	Use Django (backend) and React (frontend)	HIGH FUNCTIONAL IMPLEMENTED
Appropriate JSON file format	Once the text constructor has completed the mapping process for their image set, the program must output a JSON file in the appropriate format as specified by the Client.	 Formatted as shown in attachment	HIGH FUNCTIONAL IMPLEMENTED
Upload image(s)	As a text constructor, I want to be able to upload images to my image set		HIGH FUNCTIONAL IMPLEMENTED
Delete image(s)	As a text constructor, I want to be able to delete images in my image set		MEDIUM FUNCTIONAL IMPLEMENTED
Assign words to images	As a text constructor, I want to be able to input words associated with an image I've uploaded		HIGH FUNCTIONAL IMPLEMENTED
Delete words from images	As a text constructor, I want to be able to delete a word I've input		MEDIUM FUNCTIONAL IMPLEMENTED
Edit word in image	As a text constructor, I want to be able to edit a word I've input		MEDIUM FUNCTIONAL IMPLEMENTED

Map word to part of image	As a text constructor, I want to be able to map a word to its corresponding part of an image so that clicking there will access the word	<ul style="list-style-type: none"> Features: pen tool, eraser tool, undo tool, redo tool 	HIGH FUNCTIONAL IMPLEMENTED
Return to upload page from graphical tool	As a text constructor, I want to be able to return to the upload page from the graphical tool so that I can edit my image set or select a new word to map	<ul style="list-style-type: none"> Features: "Back" 	MEDIUM FUNCTIONAL IMPLEMENTED
Edit the existing mapping of a word	As a text constructor, I want to be able to reopen the completed mapping of a word and edit it	<ul style="list-style-type: none"> Possibly out of scope 	LOW FUNCTIONAL IN DEVELOPMENT
Easy to navigate webpage	As a text constructor, I want to be able to save the progress of my mapping for a word	<ul style="list-style-type: none"> Features: "Save" 	MEDIUM FUNCTIONAL IMPLEMENTED

Use Case Diagram





⚠ Out of Scope

Feature	User Story/Explanation	Notes
	User Stories	
Compatible with all languages	As a text constructor, I want to be able to annotate an image in any language	<ul style="list-style-type: none">• Example: right-to-left display for certain languages (Arabic)• Decided not to include in our program, as we are unsure how this would fit into the JSON file format provided by the client

		<ul style="list-style-type: none"> • Possibly a toggle-able button
View annotated image set from user's perspective	As a text constructor, I want to be able to see what my annotated image set will look like from a user's perspective	<ul style="list-style-type: none"> • Can be integrated later by C-LARA developers (since it creates a mirror of the C-LARA interface, which we do not have access to the code for) • Quality-of-life improvement, not a requirement
Automatic border detection tools	Ability to click on an object in an image and have its border automatically detected and outlined	<ul style="list-style-type: none"> • Segment anything • Quality-of-life improvement, not a requirement
Add sentences to image	As a text constructor, I want to be able to input sentences that describe a part of the image I have uploaded and intend to annotate	<ul style="list-style-type: none"> • Functional requirement • Decided not to include in our program, as we are unsure how this would fit into the JSON file format provided by the client
Add words to sentences	As a text constructor, I want to be able to assign words to the objects in the image corresponding to one of the sentences I've input	<ul style="list-style-type: none"> • Functional requirement • Decided not to include in our program, as we are unsure how this would fit into the JSON file format provided by the client
Map 'Translation-Control' button to part of image		<ul style="list-style-type: none"> • Provided in JSON file output format by client • Decided not to include in our program due to time constraints
Map 'Speaker-Control' button to part of image		<ul style="list-style-type: none"> • Provided in JSON file output format by client • Decided not to include in our program due to time constraints