A Supplemental Material

The following supplemental material features various screenshots of ACTIVEANNO in order to display the scope of the project.

A.1 Home Page

	ActiveAnno	ANNOTATE	CURATE	MANAGE	8
You are u	sing ActiveAnno. See your areas of responsibility here.				
P	Annotate Annotate documents				
0	Curate Curate documents				
Ê	Manage Manage projects				
Language English					
	Figure 4: Home page				

Figure 4 shows the home page of ACTIVEANNO, including navigation options to all subareas as well as the language switcher.

A.2 Manage UI

	aseral is this review for a	oftware engineers?
Restricted number: Let the annotator chose a single number	between an upper and lower bound, typically displayed as a slider.	
Annotation definition type	Unique annotation ID	Annotation name
Restricted number	* EXAMPLE_PROJECT_USEFULNESS	How useful is this review for software engineers?
Please choose an annotation type appropriate for what you want the annotation to annotate about the documents. For example, if you hav set of categories, "Single/Multi select" would be appropriate.	Please provide a unique ID for your annotation. Far example, if yo add an annotation about spam/no spam, 15.578/M* would be an appropriate annotation name.	Clear description of what the annotation is about, for example "Sendim or "Is spare".
Short name	Minimum allowed value	Maximum allowed value
Usefulness	1	8 6
Sharter version of the name for purposes where lots of information re to be displayed in limited space.	inclusive lower bound for allowed number values.	Inclusive upper bound for allowed number values.
Step between numbers	Optional	
1	I ✓ YES X NO	
	ais is the annotation optional? If yes, the annotator is not required b	a provide

Figure 5: Editing an annotation definition

The manage UI has various parts, such as the ability to edit annotation definitions as depicted in Figure 5, here a number annotation. Another part is creating and editing annotation projects. Figure 6 shows the basic properties of an annotation project, like name, description and user associated to their roles. Figure 7 shows the annotation schema, which is comprised of all the annotation definitions of the project. Finally, Figure 8 shows part of the analysis UI where annotation results can be statistically evaluated. It features graphs of annotation duration, inter-annotator agreement, and accuracy. Not depicted are the filter options to only analyze a subset of all annotation results of the project, for example, based on the annotators or time, and an extensive table showing statistics (agreement, correctness of annotation) for every document analyzed.

A.3 Curation UI

The curation UI, as shown in Figure 9, is an extension of the annotation UI, featuring an additional

Manage				130	IOTATE CURATE MANAGE				
xample project: App review	8				SAVE				
0	0	0	0	0	0				
Basic properties	Filter & Sort	Document Mapping	Annetations Layout Export						
D			Name						
EXAMPLE_PROJECT_APP_REVI	EWS		Example project: App revie	ws					
Inique ID of the project. May only contain let for the first saws.	ters, numbers, ¹ /L and ¹⁰ , for example	"HY, PROJECT". Cannot be changed	Name of the project. Should be short	and as unique and clear as possible					
Description									
	ws' by Guzman and Maalej. Ti w as spam / no spam and to	e difference to the paper setu define a usefulness scale for se	tiveAnno. The setup is based on t p is that sentiment is assigned he oftware engineers.						
Priority			Active						
Medium			√ YES		XND				
he priority of the project in comparison to o unators first	ther projects. Higher priority projects	will be displayed to annotators and	Only active projects are visible to ann	otators and curators. A project can	only be set active if it is complete and valid				
Project managers			Project annotators						
admin 🔘 testmanager 🔘			admin 🔘 testannotatori	🔘 testaneciator? 🔘	testarectator3 🔘				
reject managers can edit the project, impor anager of the project by default. If you rem					he project. Multiple annotators can split the act disagreements and reach higher quality				
Project curators			Annotator per document						
admin 🕲 testcurator 🕲			2						
Existors have the authority to validate and overwrite annotation/lesuits made by annotators. Apprepriately, constant should be qualified to curste annotators as their spinion will always be treated as the gold standard.			Number of annotations a single document will be shown to. How multiple annotation-Results for a single document w handled is defined in the anexation finalization policy. Havinum limited by surface of annotations defined for this						
llow curator escalation									
√ YES		× NO							
isplay a button to annotators to escalate a c hich will be shewn to the ourator. This can b to unsure by giving them the option to ask a	be used to prevent annetators from lat								
inalize annotation policy									
Always require curator									
Detailed descriptions									

Figure 6: Editing project basic properties

🔲 Manage				4000	OTATE CURATE MANAGE
ample project: App review	18				a save
0	0	0	0	0	0
Basic properties	Filter & Sort	Document Mapping	Amstations	Layout	Export
notation definition					
s spam (EXAMPLE_PROJECT_S	(PAM)				DELETE
is annotation definition is part of the ann	otation schema for this project. You o	an create / edit annotation definitions separa	toly.		
notation definition					
entiment (EXAMPLE_PROJECT	LSENTIMENT)			-	DELETE
is annotation definition is part of the ann	otation schema for this project. You o	an create / edit annotation definitions separa	ooly.		
notation definition					
low useful is this review for sof	tware engineers?(EXAMPLE	_PR0JECT_USEFULNESS)		-	DELETE
is annotation definition is part of the ann	otation schema for this project. You o	an create / edit annotation definitions separa	toly.		
notation definition					
fentioned features (EXAMPLE_	PROJECT_FEATURES)			-	DELETE
is annotation definition is part of the ann	otation schema for this project. You o	an create / edit annotation definitions separa	tety.		
nnotation definition					
This review contains a (EXAMPL	E.PROJECT_REVIEW_CONT	(AINS)		-	DELETE
is annotation definition is part of the ann	otation schema for this project. You o	en create / edit annotation definitions separa	tely.		
nnotation definition					
Ither things this review contain	s(EXAMPLE_PROJECT_REV	IEW_CONTAINS_OTHER)		-	DELETE
is annatation definition is part of the ann	otation schema for this project. You o	an create / edit annotation definitions separa	soly.		
dd new annotation definition to	schema				
					ADD

Figure 7: Editing project annotation schema

panel where all annotation results for the document are displayed. The curator can either accept one of those results as correct, copy the result into the annotation area below, or annotate the document themselves in said annotation area.



Figure 8: Analysis UI with duration, inter-annotator agreement and accuracy

🗐 Curate					CURATE	MANAGE	
This is an automatically powerted example project. It dows the different capabilities of Activators. The article based on the Paper New Du Itern Like this Dample prode Pattern? A The directed Softment Calagost dap between by German and Marki, The different to the paper setule is that extentment is adjusted for the mere an directed softman. The article data and the softman					Ŧ	c	
Document details							~
Review for the App Dropbox		Reviewer: Reviewer723					
Stars: ★ ★		Date: 2018-12-29					
Roview test More storage please							
Annotation result Annotation SU admin (2020-07-1121:27, duration: 35s)	Annotation result Annotator SU testannotato	r1 (2020-07-11 21:28,		Annotation result Automatically generated (2020-07-112):14)			
Is spam: X Sentiment: Nexutive How useful is this review for software engineers?: 3 Henchened features: (Surrog Jassa) This review contains: (Peter revert) Other things this review contains:	duration: 19s) Is spam: X Sentiment: (Negative) How useful is this review for Mentioned features: (San This review contains a: (F Other things this review co	ge Space) redback about a feature	Sentiment: How useful Mentioned This review	Is spam: X Sentiment: How useful is this review for software engineers?: Nentioned features: This review contains a: Other things this review contains:			
ACCEPT COPY	ACCEPT COPY		ADDEPT DDPY				
Annotate document							
ls spam		Sentiment					
√ YES	× NO	VERY NEGATIVE NEW	NTIVE NEUTRAL	POSITIVE	VERY POSITIVE		
How useful is this review for software engineers?		Mentioned features					
×		Storage Space					
		Multi select (Maximum number of answers: 101- (optional)					
This review contains a		Other things this review	contains				
Feedback about a feature	•						
Multi select (Maximum number of answers: 3) - (optional)		0/100 (min. 1. optional)					

Figure 9: Curation UI