

Recognition and Enrichment of Archival Documents

D5.5. Mobile crowd sourcing tool

Delivery of HTR benefits via the web

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Executive Summary

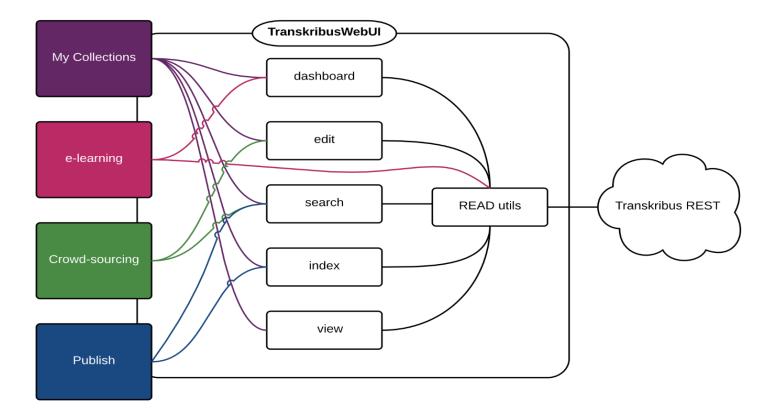
The majority of this document gives an overview of the foundational elements of the web user interfaces in general. Description of this necessary initial phase leads to an outline of the mobile crowd-sourcing tool currently under development.

1. Introduction

Web User Interfaces is a general term used to describe the presentation of the transkribus functionality to people via a web browser as distinct from the Expert tool desktop application.

1.1. Web UI foundation

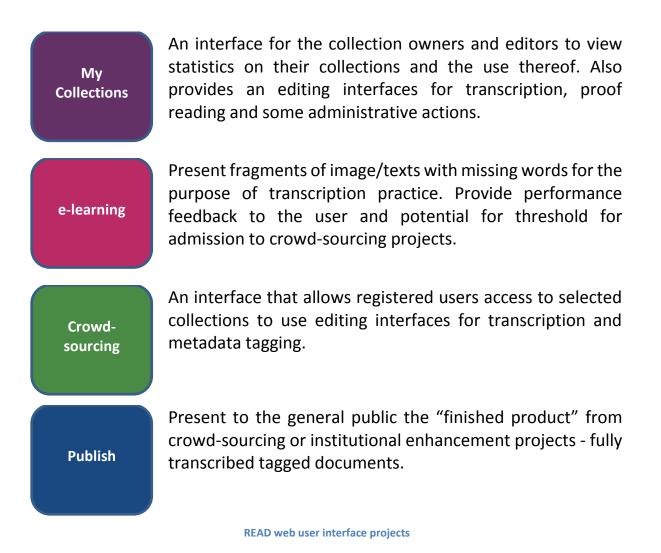
The approach taken in the first year of the project was to provide a solid shared foundation for all web UI elements. This has been achieved with the use of the <u>python-django framework</u> which is designed to allow the rapid development of websites (projects) from re-usable functional components (applications). The following diagram shows the various elements and functions of the web UI and how they make use of a shared communication utilities to communicate with the <u>Transkribus RESTful web service</u>.



READ web user interfaces overview

2 Related applications

The four central elements of the web UI are described below. These can be considered as separate interfaces with distinct purposes and audiences. They each make use of different functions of the overall web UI. This approach has been mapped to the Django concept of projects and applications, where applications are standalone programs that perform a given function and can be combined with other applications in a given project. So the four elements below represent a Django project that delivers a website with a distinct purpose and audience and further mentions of "projects" is in reference to these rather than the project as a whole.



Each of the web UI projects has been designed to work well on a range of devices including mobiles. This has been achieved by using the responsive bootstrap framework throughout and testing the interface with <u>Google's "Mobile Friendly Websites" tool</u> and in more depth with <u>mobiReady</u>.

2.1 Description of Applications

Applications in this sense refer to the Django applications that perform a given task and represent reusable building blocks of the projects. The applications are designed to respond

to context such as the type of user accessing them and other parameters to provide the user experience warranted by that project. So an administrator accessing the dashboard via the "My Collections" project will have a difference experience compared to a public user accessing via a crowd-sourcing project that is constrained to a single collection.

Dashboard

<u>The dashboard application</u> brings together and refactors data on users, activity and page status to provide an overview for collection owners and editors. For individual users the dashboard will provide a profile page collating data for that specific user within a collection and the data on their interactions with the documents.



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Initial My Collections dashboard allows a view of collections associated with that user.

HS_115

Last activity HS_115

: User , , operation () on page ID of document ID Activities for HS_115 Start: Fri Jan 01 2016 End: Wed Nov 30 2016 Table All activities Your activities Activities for... - Most Active Users 800 700 600 500 400 300 200 100 barbara.denicolo@uibk.ac.at skigsi01@gmail.com simo181208@gmail.com nattygs47@gmail.com rory.mcnicholl@gmail.com Status Change X Access Document Login Save Show 12 T In progre Showing 0 to 12 of 574 Previous 1 2 3 4 5 ... 48 Next READ - A horizon 2020 e-infrastructure project

Document dashboard view shows activity per document to collection owner/editor and page thumbnails with indication of page status

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Edit

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The Edit application presents the page images for transcription and enhancement. Different views are available so that the most appropriate can be used for a given task - such as transcription, tagging metadata proofreading and correction. There is no prescription of view to task, this can be the choice of the collection owner at deployment.

Correction Interface, Line by Line (working title) Q Q t ŧ Save changes In Jublico Foliticis Actum Dozen den 2^{4m} Julius 1792 Vor Till Berrn Europermeifter von Lemie lagi frates 9 erns v Bei 30444 2 Vor Titl Herrn Bürgermeister von Remich etc. + t In Beÿseÿn der Magistrats Räthe T Herrn Oberlieutenant Karl v Kuglern. Herrn Franz v Mayrl, und Herrn Dr Andre Dipaŭli Close Dirynminifr Ar 768 in mit In the 30

In-line/modal transcription editing, aka line by line

>

Proofreading Interface (working title)

Original version

Your version

- 99
- brandewines, but what paps or writings were found aboard her heed saith hee knoweth not/0 3
- To the 4:th hee saith, hee knoweth nothing thereof./
- 5 To the 5:th hee saith, the said shipp fortune was seized and taken by the said
- 6 English friggat about a league from the English shoare, shee being note then under the Command of English fort or Castle, nor within shott of any
- Englishman of warr lying in or neere the downes for the defense and
- service of this Commonwealth./
- To the 6:th hee saith, That the said two french men of warr never de 10
- 11 the pursuite of the said shipp ffortune, till shee was by the English 12
- frigatts Companie seized as aforesaid, which was about a League from 13 the English coast according to this depois judgement, but not within
- 14 the Command of any such fort Castle or shipp as is interrate.
- 15 Piere, 4 Rousel
- The 25:th day of February 1655 This is a changed piece of text 16
- 17 Examined upon the said Allegation:-/
- Rp. 4:.us 19
- Charles Anguestil of Callice in ffrance Mariner &
- Gunner of the said shipp the Mary Royall aged xxx 20 40: yeares or thereabouts a Wittnesse sworne and example
- 21 saith as followeth vizt -/ 22
- 23
- To the first Article of the said Allegation hee saith, That hee well 24 knoweth the shipp the golden Eagle arlate, and hath so knowne her for 25 last past
- about two yeares and a half during which time shee hath been a man of
- 26 27 warr constantly belonging to the Port of Callice under the Command of
- the arlate Captaine John Bennard of Callice, And saith hee hath 28 knowne the shipp the Mary Royall as hereof the arlate John Coverure 29
- 30 was and is Captaine for about 8. yeares last past belonging also to the said 31 XXX
- 32 Port of Callice and hath xxx sewall warlike voiages in that time bee
- 33 and served aboard her as Gunner, and saith that both the said Vessells
- belong to the Count of Charrott Governour of Callice And others Burghers 34
- 35 there, Arm:ers and Victuall:ers of the said shipps, hee also saith That of his
- this deports certaine knowledge the said shipps have made sewall voiages 37 in Companie each of other upon warlike employments ag:t the enemie
- of the Crowne of ffrance, being thereunto commissionated and authorized
- 39 by the Duke of Vandome Grand Admirall of ffrance, and particularly
- 40 this deport in the quality aforesaid served in and aboard the said shipp
- 41 Mary Royall in her last expedition in Companie with the said shipp
- 42 the Goulden Eagle, whereupon they sett out from Callice upon the 43 26.th day of January Last new style, And further saving his subsequent
- 44 depon cannot depose./
- 45 To the 2.d Arle of the said Allegation hee saith, That upon the 30.th day
- 46 of January last past according to the new stayle or style of ffrance, the
- 47 said two men of warr being in Companie at Sea upon such their warlike
- employment espyed the shipp the fortune in Controvsy sayleing neere 48
- 49 unto the french Coast about the Distance of one league and a half
- 50 from the Cape of Griniay, being the direct way which shipps bound from 51
- the Ports of ffrance for fflanders doe usually steere, especially in times of 52 hostility betwixt the English and Spaniards, expressly to avoyd the English
- 53 And saith, That having espied the said shipp fortune the said two french
- 54 men of warr under their french Colours respectively gave chase unto her

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Figure "Side-by-side" transcription editing

Search

The search function of the transkribus web service based on apache solr became available earlier this year. Presently full-text searches for documents is possible via this API with metadata searches are due to follow. Discovery of documents and the text within documents, as well as faceted search and metadata indexing of content will be added to most of the web interface elements in the coming year (eg my collections, crowd-sourcing and publish/view).

Index

A section of the web-UI currently known as the library Renders of indexes for collections, documents, pages, transcripts, also regions and lines. The library is a demonstrator of the indexing capabilities that will be used to some degree in several of the web-UI elements.



Document details for HS_115

This document was uploaded by guenter.hackl@uibk.ac.at.

This document has 574 pages:							
ID)	Page number	Image file name	Transcripts			
11	13223	1	HS_115_1_object_128269.jpg	15			
11	13230	2	HS_115_2_object_128270.jpg	14			
11	13237	3	HS_115_3_object_128271.jpg	24			
11	13244	4	HS_115_4_object_128272.jpg	15			
11	13251	5	HS_115_5_object_128273.jpg	18			
11	13259	6	HS_115_6_object_128274.jpg	22			
11	13267	7	HS_115_7_object_128275.jpg	15			
11	13275	8	HS_115_8_object_128276.jpg	15			
11	13283	9	HS_115_9_object_128277.jpg	10			
11	13291	10	HS_115_10_object_128278.jpg	14			
11	13299	11	HS_115_11_object_128279.jpg	15			
11	13306	12	HS_115_12_object_128280.jpg	15			
11	13314	13	HS_115_13_object_128281.jpg	12			
11	13322	14	HS_115_14_object_128282.jpg	7			
11	13330	15	HS_115_15_object_128283.jpg	14			
11	13338	16	HS_115_16_object_128284.jpg	9			
11	13346	17	HS_115_17_object_128285.jpg	8			
11	13354	18	HS_115_18_object_128286.jpg	11			
11	13362	19	HS_115_19_object_128287.jpg	11			
11	13370	20	HS_115_20_object_128288.jpg	10			
11	13378	21	HS_115_21_object_128289.jpg	9			
11	13386	22	HS_115_22_object_128290.jpg	8			
11	13394	23	HS_115_23_object_128291.jpg	11			
11	13402	24	HS_115_24_object_128292.jpg	7			
11	13410	25	HS_115_25_object_128293.jpg	7			
11	13418	26	HS_115_26_object_128294.jpg	5			
11	13426	27	HS_115_27_object_128295.jpg	9			
11	13434	28	HS_115_28_object_128296.jpg	6			
11	13442	29	HS_115_29_object_128297.jpg	6			
11	13450	30	HS 115 30 object 128298.jpg	2			
	-						

Full indexes of collections, documents and pages.

View

A view of transcript and/or image with visual indications of enhancements on image and transcript. Views will show region and line data where appropriate on image and transcript. Styling of transcript text as appropriate and highlighting of metadata in text with linking via metadata searches between pages, documents and where appropriate between collections. This application will be the focus of the publish element of the web-UIs.

3 Mobile crowd sourcing tools

Although all projects have been designed with mobile in mind certain projects have a particular focus on delivering transkribus functionality to hand held devices and as such have been conceived as simple, small and involve tasks that can be undertaken over small periods of time. One such of these takes some of the smaller tasks suitable for crowd sourcing and delivers these in a stripped down, simple way.

Building on the applications already deployed (mainly edit and read utilities) and currently in development is a tool to present words that have been marked in a transcript with the TEI unclear tag <u>http://www.tei-c.org/release/doc/tei-p5-doc/en/html/ref-unclear.html</u>. These words will be presented for correction to general users within a minimal (but expandable) context.