Suleyman Demirel University

Assignment#3

SRS-1

SE

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Team number: #7 “helloWorld”

Kaskelen,2015

Software Requirements Document for Translit.kz

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Merei Bolat

Version	Date	Author	Change
0.1	28/02/15	Group 7	Initial Document

Table of Contents

1 Introduction

1.1 PURPOSE

Purpose of this document is prepare described in details requirements info of Translit.kz WEB and Desktop based transliteration system

1.2 SCOPE

This document will describe the use cases and features of the Translit.kz WEB and Desktop based transliteration system

1.3 DEFINITIONS, ACRONYMNS, ABBREVIATIONS

// alphabetical list of terms and their descriptions

// This is part of analysis and you must make sure you describe terms used in this document

Term	Description
Transliteration	is the conversion of a text from one script to another.
Logic part	In desktop application it is c#, in web site is php, java script and etc.
Web GUI	is an open source content management system written in Perl and released under the GNU General Public License.
Desktop GUI	In computing, a **graphical user** is a type of interface that allows users to interact with electronic devices through graphical icons and visual indicators such as secondary notation, as opposed to text-based interfaces.

1.4 REFERENCES

// list of references for the reader of this document (if any)

1.5 OVERVIEW

[OMIT]

2 Overall Description

With Transliterator translit.kz from Latin letters obtained letters of Kazakh alphabet and vice versa. This Transliterator will be used as a service for the Kazakh-speaking people, who living abroad who wish to correspond in their native language.

2.1 PRODUCT PERSPECTIVE

This project is similar to several existing transliteration applications and sites such as translit.ru. It is unique , in Kazakhstan has no such site, as well as applications.

2.1.1 Concept of Operations

The translit.kz will be run in network. And Desktop application of the Transliteration will be installed on user's computer.

2.1.2 Major User Interfaces

See Appendix.

2.1.2.1 Example Screenshot and description

See Appendix.

2.1.3 Hardware Interfaces

This software requires no more than standard personal computer peripherals.

2.1.4 Software Interfaces

// example: CGI-URL or function signatures etc (OMIT for now).

2.1.5 Communication Interfaces

// example: modem etc (OMIT for now)

2.1.6 Memory Constraints

// RAM, and other storage constraints (OMIT for now)

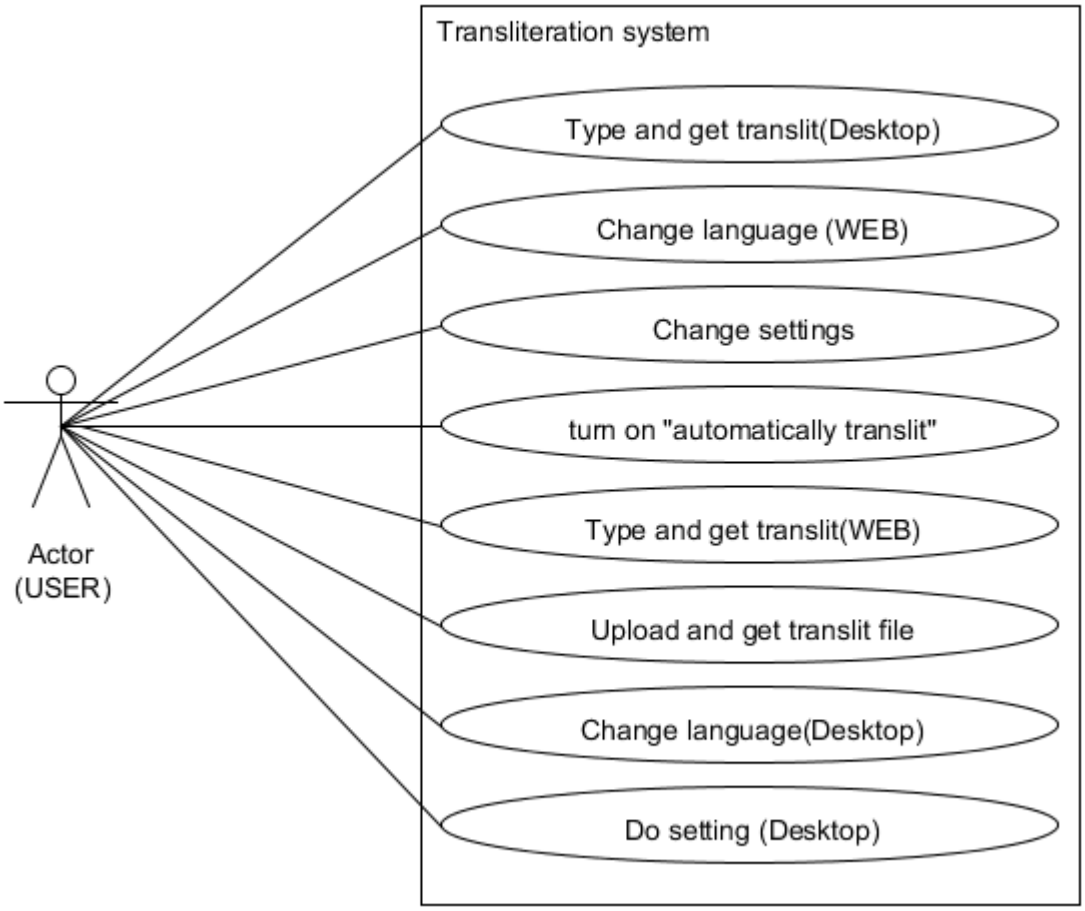
2.1.7 Operations

// special operations (if any) (OMIT for now)

2.1.8 Site Adaptation Requirements

//ex: Japanese language etc (OMIT for now)

2.2 PRODUCT FUNCTIONS



2.2.1 Example use case

Type and get transliteration for Web site.

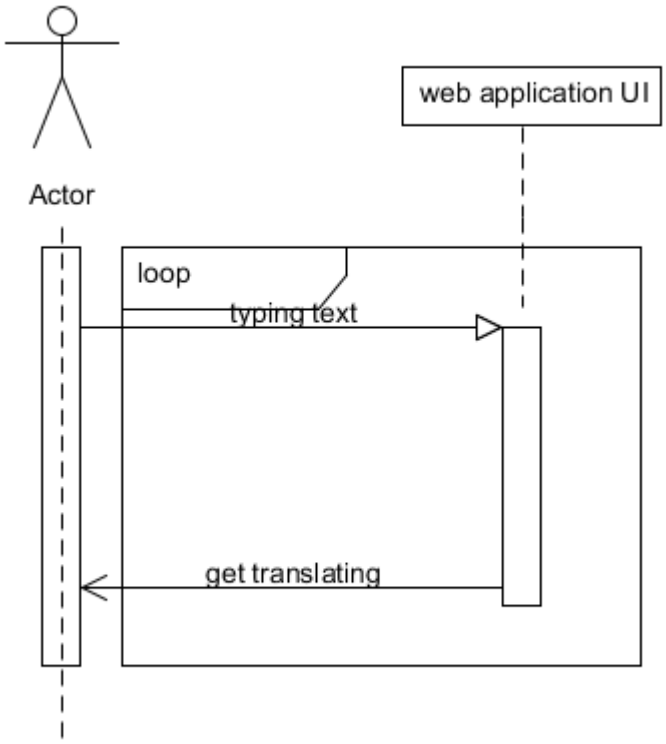
Actor: User

Description: USER can type text and transliterate

1. User in text field of web site types text.
2. And this text processed in logic part.
3. Transliteration text will return to WEB GUI.

Pre-conditions: User visits the site translit.kz.

Post-conditions: User will have transliterated text.



Type and get transliteration for Desktop Application

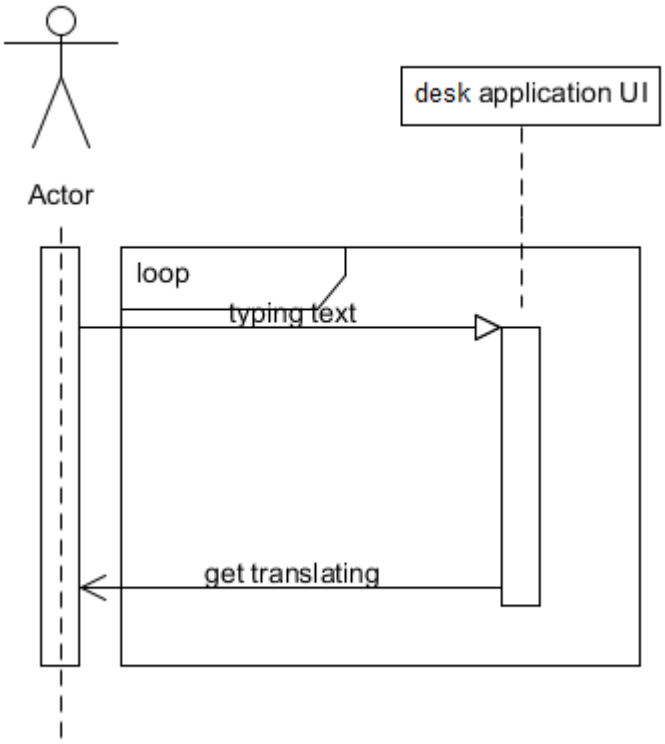
Actor: User

Description: USER can type text and transliterate

1. User in text field of desktop application types text.
2. And this text processed in logic part.
3. Transliteration text will return to Desktop GUI.

Pre-conditions: User visits the site translit.kz.

Post-conditions: User will have transliterated text.



Upload and get transliterated of file.

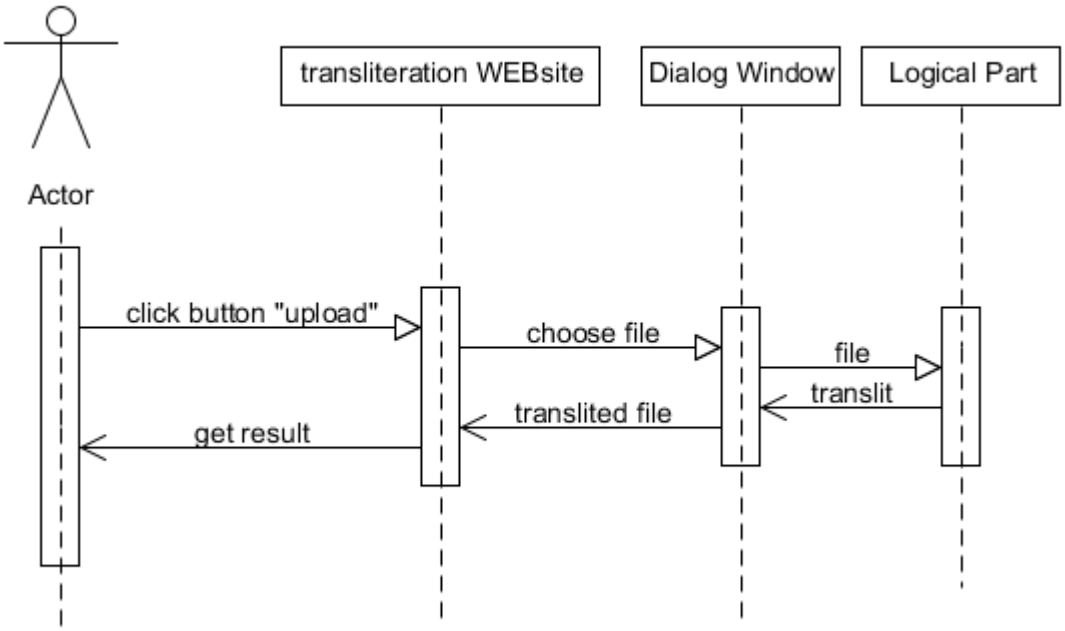
Actor: User

Description: USER can upload own file and get transliteration.

1. User click “upload” button.
2. After that user in dialog window must choose file.
3. In the logical part this file will be transliterated.
4. And this file will be return to GUI.

Pre-conditions: Download a file to server.

Post-conditions: Download transliterated file.



Change settings in WEB Site

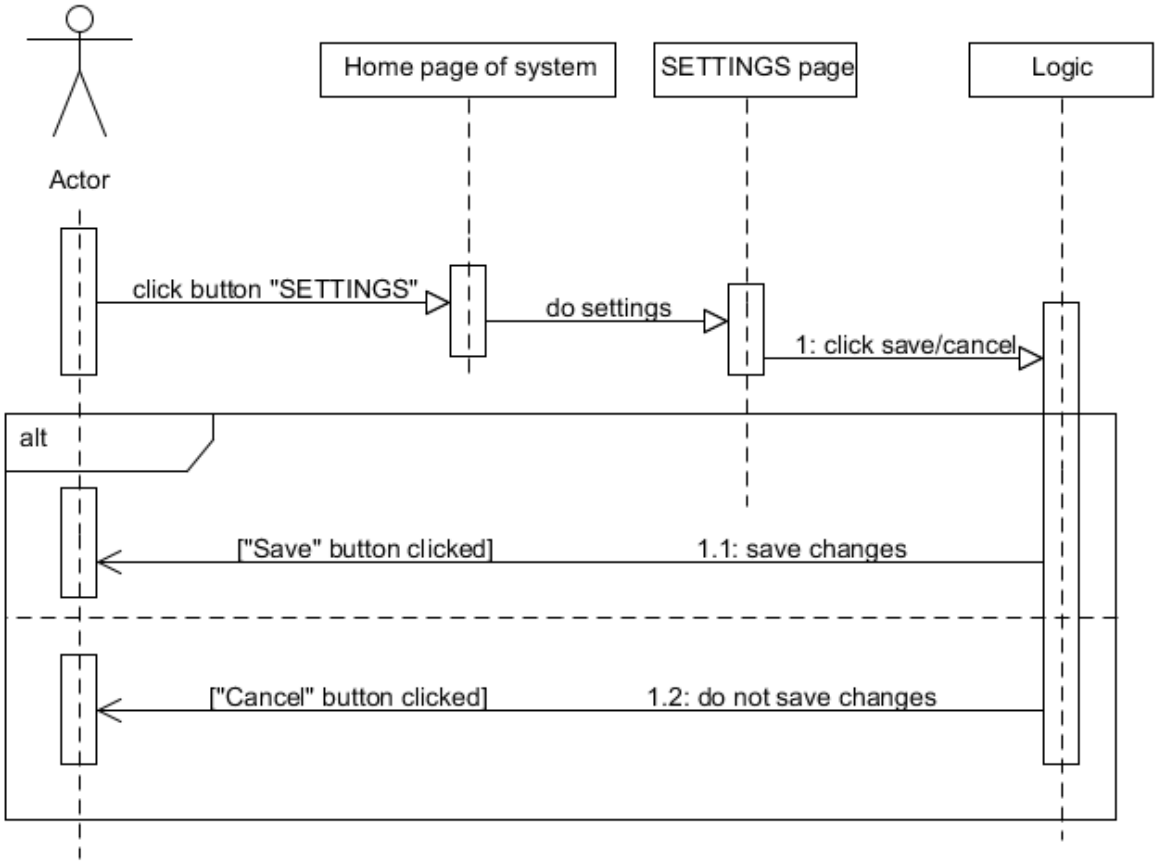
Actor: User

Description: USER can alter setting to change symbols as he/she wants.

1. User click button “Settings”.
2. User will go to the settings page and make settings as desired.
3. After that user will click cancel or save button.
   a) If user will click save button, logic part of system will save changes.
   b) If user will click cancel button, logic part of system will not save changes.

Pre-conditions: User will have\have not new settings.

Post-conditions: Open “Setting” window.



Change settings in Desktop application.

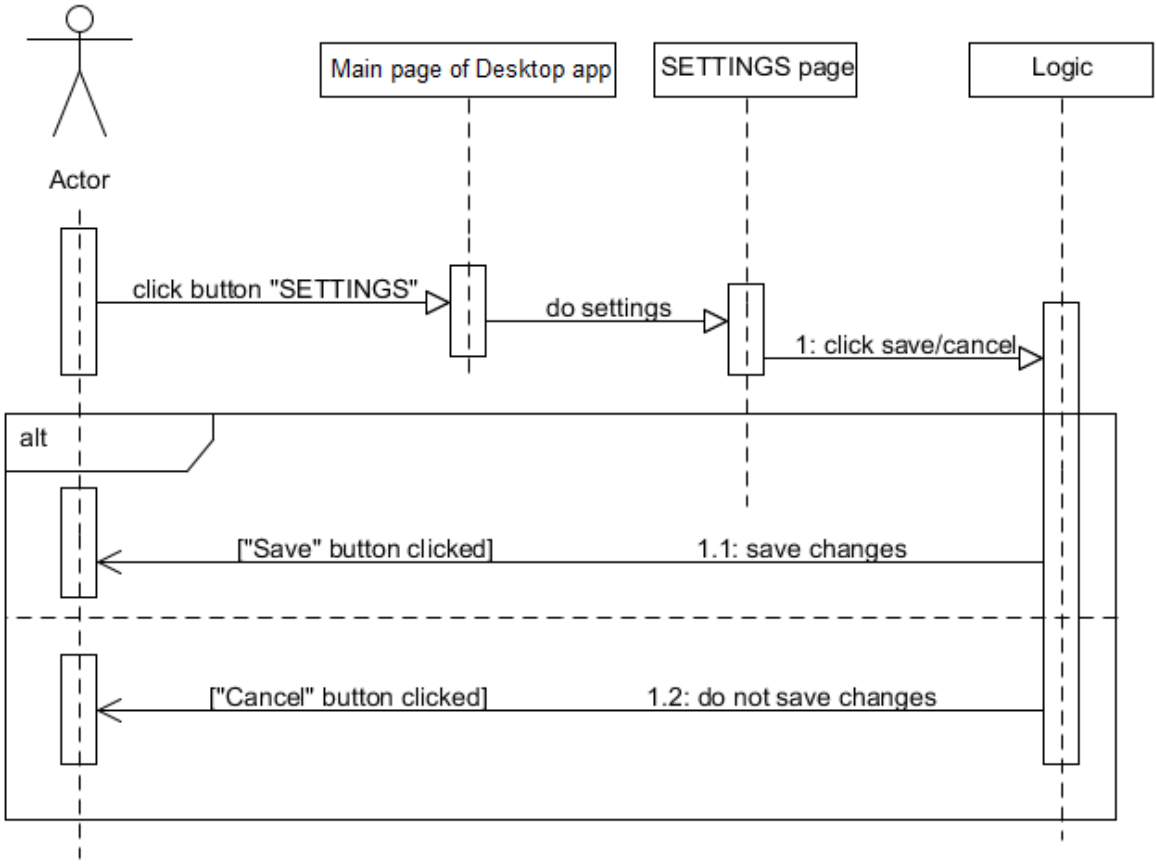
Actor: User

Description: USER can alter change setting to change symbols as he/she wants.

4. User click button “Settings”.
5. User will go to the settings page and make settings as desired.
6. After that user will click cancel or save button.
   c) If user will click save button, logic part of system will save changes.
   d) If user will click cancel button, logic part of system will not save changes.

Pre-conditions:. Open “Setting” window.

Post-conditions: User will have\have not new settings



Turn on “automatically translit” in Desktop application.

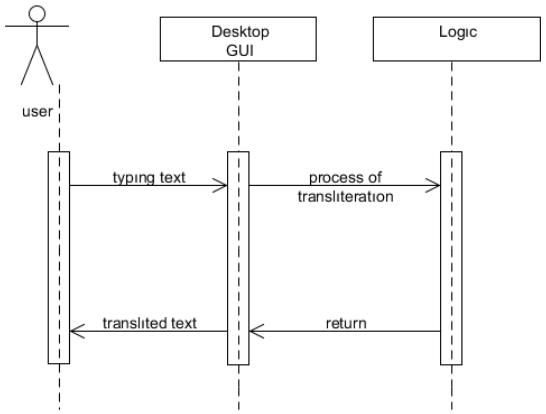
Actor: User

Description: after installing desktop application USER can use system in every text editor.

1. User will be in automatically mode.
2. User can type text in any text field
3. Logic part of system transliterated text.
4. Return to Desktop Gui transliterated text.

Pre-conditions: Typing some text in text field.

Post-conditions: User will have transliterated text.

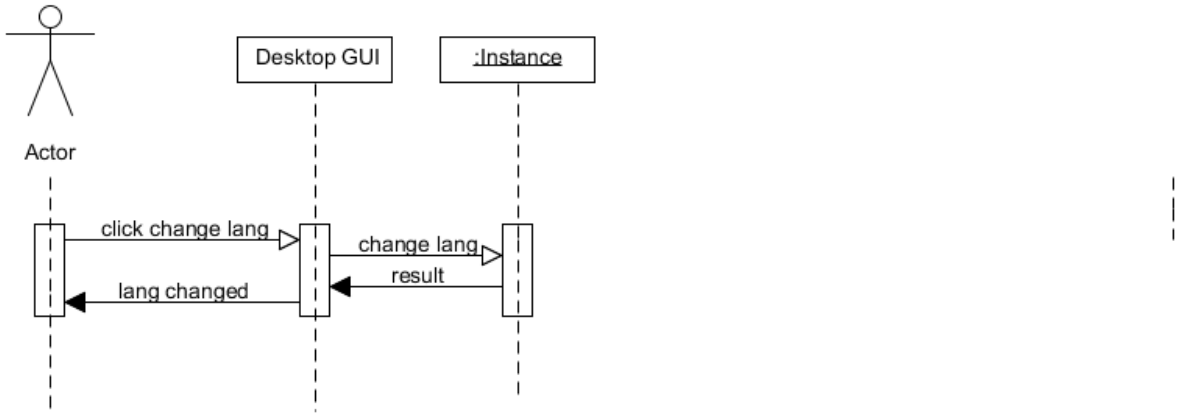


Latin to Kirill in Desktop Application.

Actor: User

Description: Our project can transliterate from Latin to Kirill and vice versa.

1. User will type text in Kirill/Latin.
2. After that this text processed in logic part.
3. Transliteration text will return to Desktop GUI.
4. When you will click button “vice versa”, text changed from Kirill to Latin or Latin to Kirill.

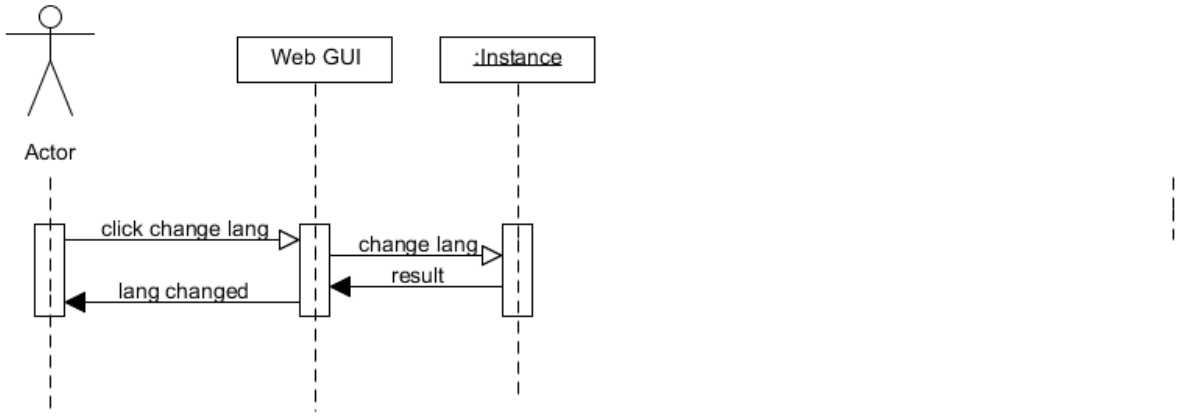


Latin to Kirill in Web site.

Actor: User

Description: Our project can transliterate from Latin to Kirill and vice versa.

1. User will type text in Kirill/Latin.
2. After that this text processed in logic part.
3. Transliteration text will return to Web GUI.
4. When you will click button “vice versa”, text changed from Kirill to Latin or Latin to Kirill.



2.3 USER CHARACTERISTICS

TYPES	CHARACTERISTICS	FREQUENCY OF USAGE
USER	Has our application installed, can type text and get transliteration, upload file and download transliterated file, change settings.	HIGH

2.4 CONSTRAINTS

1. TRANSLIT.KZ IS DESKTOP APPLICATION.

2. TRANSLIT.KZ IS WEB SITE.

3. THIS APPLICATION IS DESIGNED TO BE USED BY ANY WORKER OF DIFFERENT MAJORS WHO HAS A COMPUTER

2.5 ASSUMPTIONS AND DEPENDENCIES

THE CONSISTENCY OF THE OPERATIONS OF LSC APPLICATION DEPENDS ON STABILITY OF THE SERVER SYSTEM WHERE SERVER PART OF THE APPLICATION IS RUNNING.

3 Specific Requirements

// Here you need to put in details (if any). Mark items [None] if you do not have any information.

3.1 EXTERNAL INTERFACE REQUIREMENTS

3.1.1 User Interfaces

3.1.2 Hardware Interfaces

None

3.1.3 Software Interfaces

None

3.1.4 Communications Interfaces

3.2 FEATURES

3.2.1 Translit in editors

3.2.1.1 The desktop based Translit.kz should have opportunity to give automatically translit of typing text in editors.

3.2.1.2 To provide this service the system should have Hooks(Windows) procedure. Exactly KeyboardProc callback function.

3.2.2 Real time transliteration mechanism

3.2.2.1 The web based Translit.kz should have window where actor(user) can type and get translit of typing text in real time(e.g. user type and right away get result)

3.2.2.2 To provide this service the system should have script that has function replace chars, e.g. developers should use JavaScript scripting language that realize this procedure.

3.2.3 File transliteration system

3.2.3.1 The Translit.kz shall get file, translit it and give resulted file.

3.2.3.2 To provide this service the system should determine type of file

3.2.3.2.1 To determine file extension system should have helper class in.NET for that, called Path.GetExtension();

3.2.3.3 Then it should convert it in one extension

3.2.3.3.1 To convert Translit.kz should have class TypeConverter

3.2.3.4 The system should translit converted file and save result

3.2.3.5 Translit.kz should reconvert translited file and give it as result. For thus it's also should use TypeConverter class

3.3 PERFORMANCE REQUIREMENTS

3.4 DESIGN CONSTRAINTS

In WEB based application design of pages may have different view of style, it depends on your browser where you open Translit.kz web. Some browsers may not supported some elements of page.

3.5 SOFTWARE SYSTEM ATTRIBUTES

3.5.1 Reliability

3.5.2 Availability

Exactly web part will be available through internet connection, and also here should be installation file for desktop based version of software.

3.5.3 Security

3.5.4 Maintainability

The web part of this software will be stored at some server, and it's parts (GUI and algorithms) can be changed, thus WEB app will be maintainable

3.5.5 Portability

With desktop this project also has web based version, so it's portable

3.6 OTHER REQUIREMENTS

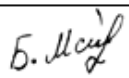
None

// ADD Appendices (if any)

// Regenerate Table of Contents

Team Work Distribution Form

Assignment #: 3
Team #: 7
Date: 25.02.2015

	Student Name (Initials)	Signature	% of total effort (adds to 100)	Lots of extra work?	Description of what done
1	Abay Serikov		25%	No	Develop future outline and other requirements
2	Dina Makhmet		25%	No	Work on text description for section 2.2
3	Merey Bolat		25%	No	Work on sequence diagrams for section 2.2
4	Gulbanu Kashkymbayeva		25%	No	Complete section #1 and #2.1 and #2.3

Minutes of Meeting Form

Team #: 7
Date: 24.02.2015

	Student Name (Initials)	Present?	Late > 5 mins?	Informed about absence?	Scribe?
1	Serikov Abay	yes	no		
2	Makhmet Dina	yes	no		
3	Bolat Merey	yes	no		
4	Kashkymbaeva Gulbanu	yes	no		

	Student Name (Initials)	Old Action Item	Status
1	Serikov Abay	Learn to c#	19.02.2015
2	Makhmet Dina	Learn to c#	19.02.2015
3	Bolat Merey	Learn to c#	19.02.2015
4	Kashkymbaeva Gulbanu	Learn to c#	19.02.2015

Agenda / Discussion Summary

We discussed the independent work, fix bugs and add ideas.

	Student Name (Initials)	New Action Item	Due Date
1	Abay Serikov	Work on algorithm of	06.03.15
		transliteration web app	
2	Makhmet Dina	Start project on desktop version	06.03.15
3	Bolat Merey	Start project with creating web app	06.03.15
4	Kashymbaeva Gulbanu	Work on design of web app	06.03.15