

Assignment#5

DD-1

SE

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Software Requirements Document for Translit.kz

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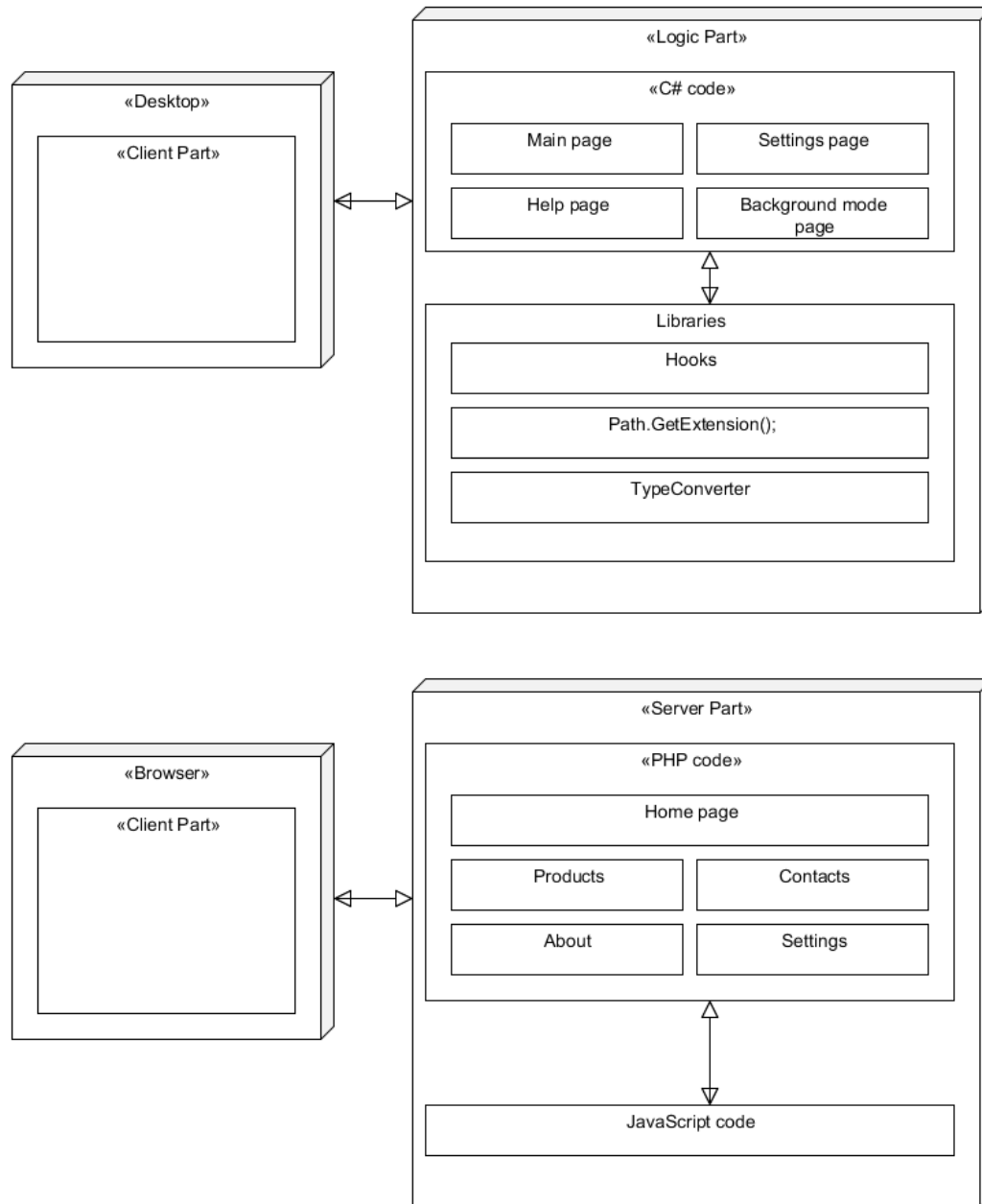
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Version	Date	Author	Change
0.1	28/02/15	Group 7	Initial Document
0.2	07/03/15	Group7	Updated, with focus on 3.2 section
0.3	21/03/15	Group7	Design Document

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1 Introduction

<Make sure you follow guidelines in the ASSIGNMENT – as well as in this document>

<DO NOT DELETE ANY SECTION. INSTEAD, if you have nothing to write in any section, then write [NONE] or NA (not applicable) >

<< Please delete ALL instructor comments before submission>>

1.1 PURPOSE

Purpose of this document is to explain the design and architecture of the Translit.kz.

1.2 SCOPE

This document covers system decomposition, interfaces, and dependencies, as well as design rationale.

1.3 DEFINITIONS, ACRONYMS, ABBREVIATIONS

Term	Description

1.4 DESIGN GOALS (MB)

1. Reliability: The core process (major use-cases) must continually function consistently.
2. Maintainability: Our code must be well organized with consistent syntax and relevant naming techniques.
3. Extensibility: The application must facilitate easy extension and features to be added to the PHP Code.
4. Response Time: All Web pages must load in less than 30 seconds including library.

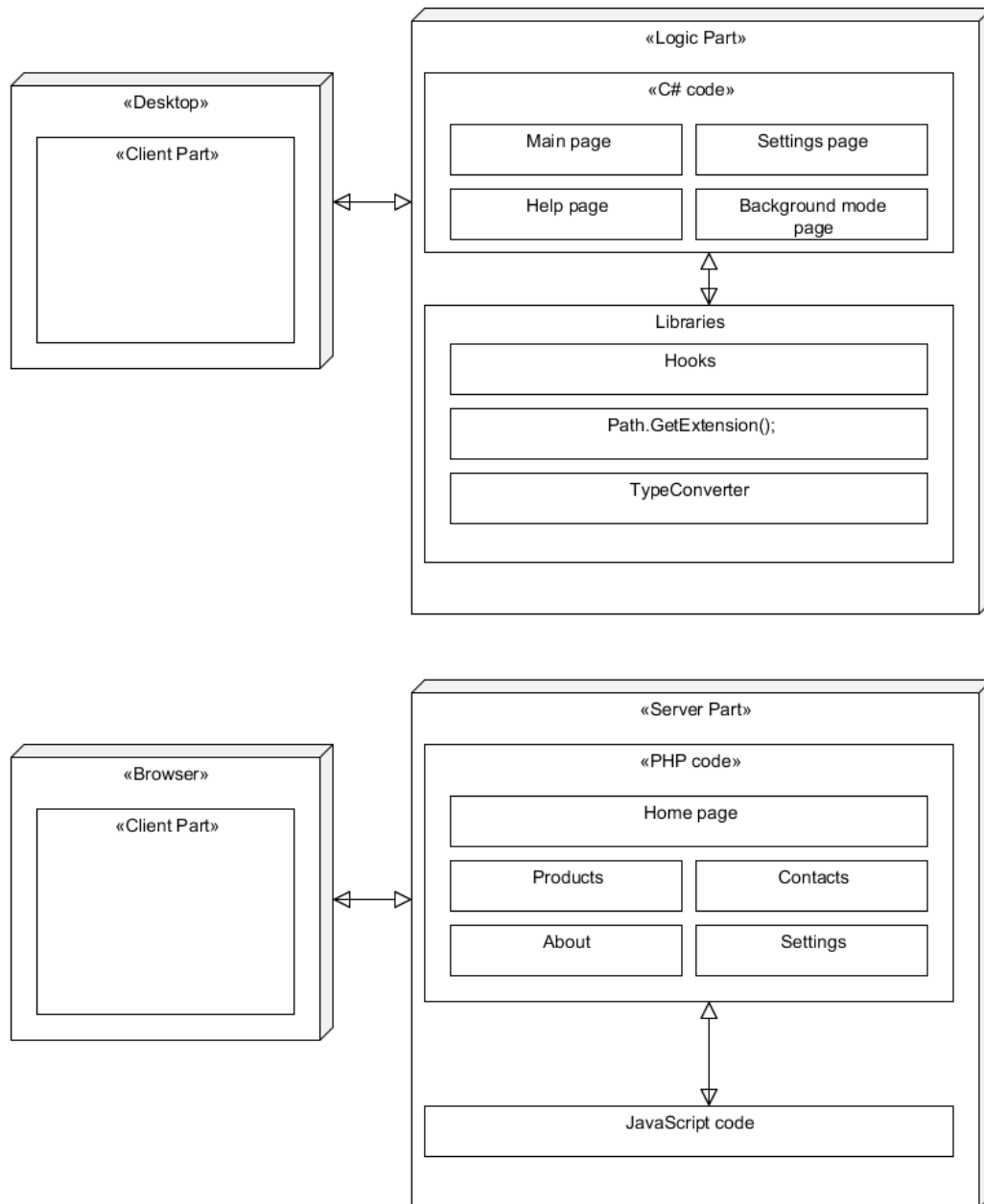
2 References

(If any)

3 Decomposition Description

3.1 MODULE DECOMPOSITION

ARCH DIAGRAM FOR TRANSLIT.KZ SYSTEM



These two diagrams have the same logic of construction Architecture Diagram. The first diagram describes the architecture of a desktop application. It consists of two layers. The first layer is code C# which includes all pages of the application. The second contains only the Libraries module, which provides services to the C# Code in the layer above. The second diagram describes the architecture of a web application. It consists of two layers. The first layer contains only PHP code, the second layer is JavaScript code, which provides services to the PHP code in the layer above. (MB)

3.1.1 C# Code Description(SA)

C# code is consisted with 4 different pages. Each page takes charge of specific events and graphical process. It uses libraries to get/send information.

3.1.2 Libraries Description(MD)

The libraries modules contains the classes and functions needed by the C# Code.

3.1.3 PHP Code Description (BM)

PHP code is consisted with 5 different pages. Each page takes charge of specific events and graphical process. It uses JavaScript to get/send functions.

3.1.4 JavaScript Description. (KG)

JavaScript modules contains the classes and functions needed by the PHP.

3.2 CONCURRENT PROCESS

<Give an overall description of the different processes, threads, instantiations>

3.2.1 Main Page Description (Desktop AS)

It is the main page of our desktop applications. There will be two TextBoxes. In the first TextBox you can type the text in Latin/Kirill and in another one get translited text by clicking on the button “Translit It”. Settings Page Description (Desktop AS)

3.2.2 Help Page Description (Desktop MD)

Page HELP teaches us how to change the settings and use the program.

3.2.3 Background Mode Page Description (Desktop MD)

On this page will be a CheckBox to enable or disable automatic background transliteration. If CheckBox Checked background mode is turn on, else turn off.

Hooks: A hook is a point in the system message-handling mechanism where an application can install a subroutine to monitor the message traffic in the system and process certain types of messages before they reach the target window procedure.

3.2.4 Settings page Description (Desktop MD)

In the Settings page, we can change the letters as we used to write. For example, someone wrote the letter III like W or someone like SH. Clicking on "Save changes " we keep the settings, or you can proceed without saving.

3.2.5 Home page Description (Web BM)

It is the main page of our desktop applications. There will be two TextBoxes. In the first TextBox you can type the text in Latin/Kirill and in another one get translited text by clicking on the button "Translit It". Also on this page you can get translited file by downloading it. We use the library of PHP method typeConverter.

TypeConverter: This method converts file from one extension to another. It needs for us, because when we translited file, firstly system must convert our extension to standard .txt or .doc etc.

Path.GetExtension: Returns the extension of the specified path string.

3.2.5.1. Settings Page Description

In the Settings page, we can change the letters as we used to write. For example, someone wrote the letter III like W or someone like SH. Clicking on "Save changes " we keep the settings, or you can proceed without saving.

3.2.6 Products Page Description (Web BM)

Our application will be developed and all of the latest updates of our desktop applications, we will throw on this page.

3.2.7 About Page Description (Web KG)

On this page we describe why we need the program, the audience of program etc.

3.2.8 Help Page Description (Web KG)

Page HELP teaches us how to change the settings and use the program.

3.3 DATA DECOMPOSITION

<Class 1> Description

<Class 2> Description

3.4 STATES

<State/System 1 > Description

<State/System 2> Description