(TECHNICAL SPECIFICATION)

DEVELOPMENT OF WEB APPLICATION
FOR AMIS/ZPIS

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TECHNICAL SPECIFICATION

PROJECT:
WEB APPLICATION

IT PLATFORM

Technologies: HTML5 / CSS3 / JavaScript / .NET (Framework 4.0)

Database Model: Microsoft SQL (Standard Edition)

PROJECT PHASES

Project’s workflow will be divided in the following phases:

- **Specification phase;**
  The specification phase will define the final module structure and required functionalities. Project leader will define all aspects of the module with the contact person appointed by the client.

- **Development / implementation phase;**
  In this phase the process of development will go through these several stages:
  - design of the initial content management structure;
  - design and development of the SQL database structure, complete website programming and integration of all separate modules;
  - and as final stage of the development the Content Management System – CMS will be developed and implemented.

- **Deployment phase;**
  In the deployment phase the developed website and its database will be hosted. During the deployment phase all systems will be tested and checked for any errors.
- Maintenance and troubleshooting of the web site;
  *In this phase the contractor will provide troubleshooting and error corrections to the final developed website for one year.*

- Training;
  *Provide adequate training to staff to enable them to efficiently operate, update/upload information and manage the content of the web site.*

**PROJECT OVERVIEW**

Development of a module for membership web application to an existing web portal.

**MODULES AND WEBSITE FEATURES THAT WILL BE IMPLEMENTED**

- Support of multilingual version;
- Web application for all member users;
- Web standards compliant code;
- Content management and workflow;
- Multi-Level website administration with user roles and privileges per role or per user;

**MODULES AND WEBSITE FEATURES - DESCRIPTION**

**Website – Language versions:**
The module will be designed and developed in two language versions (Macedonian and English). Also the SQL database structure will be organized in such a way to support the content of the language versions for all information on the website.

**Web application for all member users:**
The module will be designed and developed for easy access to all member users with selected access to certain documents defined by the administrator.

**Web standards compliant code:**
Website will be developed in easily maintainable and effective code and using proven, best practice, coding languages for such a website. The programming language used to develop this website will be: ASP.NET (Framework 4.0).

**CONTENT MANAGEMENT SYSTEM - CMS**
Unet will develop a customized and user friendly content management system (CMS) with workflow based on your needs that will allow full control of the website and updates. There is no installation required for the CMS.

Key features of CMS:

- Administrator feature to manage the website
- NO installation and upgrade procedures
- Integrated file manager with upload files of any format (doc, xls, ppt, pdf, zip…) capabilities
- News module

No special skills are required to manage the CMS driven site since editing the site is as simple as typing a document and saving to the web just by pressing the save button.

**TRAINING PLAN**

The objective of the Training plan is to enable the personnel to use, administer and maintain the system. Training curriculum is:

- Custom designed curses for users and administrators of proposed application.
- Documented users' manual.

**SERVICE SPECIFICATION**

**FUNCTIONAL REQUIREMENTS**

**CMS**
- CMS (Macedonian) (Content management system)

*Ability to fulfill functional requirements within the CMS*
- Uploading documents of different formats and folder management
- Creating links to existing files and pages imported through CMS

*Developing the AMIS as online database*
- Online client/server application will be developed in MS SQL database.

-User access level will provide three type of users.
**Developing client/server application**
- Online client/server application will be developed in C#.Net.

**Document validation checklist for reporters/managers registration and check for correct data on the application**
- User administration: assign privileges and access levels for different groups of users for filling database.
- For each user authorization is defined.
- Users can create a price list, but only those that are competent.
- Every reporter has possibility to view or change only his/her price list.

**Data entry**
- Data entry is done using editor.

**Validation process for price list inputs**
- Validation that everything is filled.

**AMIS Graphic View**
Modern graphical display to display price tables and charts

**TRAINING AND TECHNICAL REQUIREMENTS**

Training will be performed on virtual online testing system located on a temporary web address.

**TRAINING**

**Applications staff training requirements**
- Training for the communications, creation, reporting and registers administration will be organized for managers of AMIS in Skopje.

**Implementation of the training program**
- Training program is prepared on the basis on elaborated needs.

**SYSTEM ADMINISTRATORS AND TRAINING REQUIREMENTS**

**Identification of the training requirements**
- The level of expertise required on-site to ensure successful systems administration including database administration.
- Implementation of the training program
TECHNICAL REQUIREMENTS

General software requirements
- There is no special software requirements for users just common Web browser (Firefox 2.0 or newer, Internet Explorer 6 and newer. etc.)

User interface
- Menu driven system

Error handling
- All errors are logged into the system log.

Multi-lingual abilities
- User Interface is in Macedonian and English

Required equipment
- Users interface is Web Browser.

Availability
- No extra software is needed on the workstation for the distribution.

Role-based security model
The system supports the following roles:
- Data entry (create/update,)
  - User administration (assign/revoke user rights).
  - AMIS administrator (register management, data coordination).
  - AMIS coordinator (reporting, quality control).