Modern WebAPI

Vision

# Introduction

The document concerns a project implemented at postgraduate studies at the Polish Academy of Sciences in the field of: "Programming on the .NET platform". This document is used to present the system of web communication with the repository of accounts that stores information about : systems, servers and accesses. This system will be a bridge between other systems and will only manage this information and will be used for statistical and change reporting purposes. In this project we will use the latest technologies available from Microsoft and Oracle.

# Positioning

## Problem Statement

|  |  |
| --- | --- |
| The problem of | The problem with current interfaces is the performance and ease of implementation of changes. |
| affects | The users of this interface will be business users who want to manage data by transferring and receiving data using json files. |
| a successful solution would be | The assumption of this project will be to design a very flexible interface in which changes can be made quickly and with a small contribution from the development team. |

# Stakeholder Descriptions

## Stakeholder Summary

| **Name** | **Description** | **Responsibilities** |
| --- | --- | --- |
| Programmers | Programmers who have the skills to implement such systems and data processing. | 1. They will read the user documentation before using the system. 2. In order to ensure proper functioning of the system, it is necessary to create a login and password that will be used during the authorization of queries. 3. During the implementation of the system, they will test all new solutions on the development environment. |

## User Environment

# The web communication environment is so flexible that it will be possible to use this interface on all platforms, but it will be mainly Microsoft environment.

# The environment in which the web communication interface will be built is .net Core MVC, and the main programming language to be used on the beckend side will be C# and on the PLSQL database side. The user documentation will be created using HTML.

# Environment version : ASP.NET Core 2.2

# Database environment version : Oracle Database 18C

# Database model mapping : Entity Framework Core

# Product Overview

## Needs and Features

|  |  |  |  |
| --- | --- | --- | --- |
| **Need** | **Priority** | **Features** | **Planned Release** |
| Database design (tables, constraints) |  |  |  |
| Create sequences and triggers that support database events |  |  |  |
| Implementation of the database model in the interface project |  |  |  |
| Creation of the login and authorization process |  |  |  |
| Creation of user documentation |  |  |  |
| Providing paging for large volumes of data |  |  |  |
| Creation of unit tests |  |  |  |
| Error and exception handling |  |  |  |

## Other Product Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement** | **Priority** | **Planned Release** |
| The user activity will be saved in the audit tables. |  |  |
| Specific users will be able to modify the data. Possibility to create accounts with different types of access |  |  |
| Simultaneous operation of multiple users at the same time |  |  |
| Possibility to create and download a report. |  |  |
| Possibility to manage users accounts from the user interface |  |  |

## Requirements not implemented

|  |
| --- |
| **Requirement** |
| Connection to Active Directory |
| Sending e-mail correspondence confirming the changes. |
|  |

# Related documents

The Project Vision is the first document to present a description of the project's functionality and its implementation plan. Currently, there are no other documents related to the Project Vision.

# Document history

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 18/05/2019 | 1.0 | Creation of the Vision Document | Łukasz Dejko |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |