Requirements / Design and Test Documentation

**(RDT)**

*Version 0.**1*

GESCOPYME

TODO: Description of the project…

Change history:

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Author** | **Date** | **Notes/ Changes** |
| 0.1 | Vadim Budagov | 15.02.2020 | Create RDT |
| 0.2 | Vadim Budagov | 21.02.2020 | System Context Diagram |
| 0.3 | Vadim Budagov | 22.02.2020 | Started with requirements analysis |
| 0.4 | Vadim Budagov | 27.02.2020 | Some use cases are created |

**Content**

[1. Organization 3](#_Toc33271498)

[1.1. Responsibilities 3](#_Toc33271499)

[1.2. Stakeholder 3](#_Toc33271500)

[1.3. Agreements 4](#_Toc33271501)

[1.4. Repository-Concept 4](#_Toc33271502)

[2. Project management 4](#_Toc33271503)

[2.1. Prozess 4](#_Toc33271504)

[2.2. Milestones 4](#_Toc33271505)

[2.3. Quality assurance 4](#_Toc33271506)

[3. Boundary conditions 4](#_Toc33271507)

[3.1. Working Environment 4](#_Toc33271508)

[3.2. Programming Languages 4](#_Toc33271509)

[4. Requirements and Use Cases 5](#_Toc33271510)

[4.1. Requirements 5](#_Toc33271511)

[4.2. Use Cases 5](#_Toc33271512)

[5. Design 6](#_Toc33271513)

[5.1. System Context Diagram and Packages 6](#_Toc33271514)

[5.2. List and description of the components 7](#_Toc33271515)

[5.3. Component /Class Diagramm 8](#_Toc33271516)

[5.4. State Machines? May be! 8](#_Toc33271517)

[6. Attachment 9](#_Toc33271518)

[6.1. Glossary 9](#_Toc33271519)

[6.2. Acronym 9](#_Toc33271520)

# Organization

The organization during the project will be described here.

## Responsibilities

|  |  |
| --- | --- |
| **Name** | **Responsibility** |
| **Vadim Budagov** | Design, Development, Test, Documentation, Presentation |
|  |  |

## Stakeholder

|  |  |
| --- | --- |
| **Stakeholder** | **Description** |
| **Admin** | Has access to the front and back end. Is able to modify the system and access rights. Overview of the whole system. |
| **Companies** | Have access to the application from the front end. Manages all the data of the company. Can modify the company's data, view its users and its data. Furthermore, is able to register, delete and modify the product data, knowledge and surveys associated with that company. |
| **Employee of a company** | Has access to the application from the frontend. Can view all the data related to the company (company data, users, products, knowledge and surveys) but can't register new or modify existing data. |
| **Client** | Has access to the application from the front end. This is a user which isn't registered in the application. The only action he can take is to fill out surveys. |

## Agreements

//TODO

## Repository-Concept

//TODO ‘Link: https://github.com/ace146/gescopyme’

# Project management

Waterfall chart?

## Prozess

//TODO

## Milestones

//TODO

## Quality assurance

//TODO

# Boundary conditions

## Working Environment

The following software / services are used in the project:

* GitHub (Version Control System)
* Apache NetBeans (IDE)
* XAMPP (Apache-Distribution)
* Joomla (Content-Management-System)

## Programming Languages

The project will be implemented in PHP, (JavaScript)

# Requirements and Use Cases

A list of all requirements of the system.

## Requirements

|  |  |  |
| --- | --- | --- |
| **Nr** | **Type** | **Descriptions** |
| REQ-001 | Back-End: new companies. | Admin creates and manage new companies in system. |
| REQ-002 | Back-End: new knowledge. | Admin creates and manages the new knowledge. |
| REQ-003 | Back-End: new products. | Admin creates and manages the new products in system. |
| REQ-004 | Back-End: questions for survey. | Admin creates and manages questions for the general part of the survey. |
| REQ-005 | Front-End: Visualize company data. | Administrator of a company can has his company's data output/ Visualization. |
| REQ-006 | Front-End: Create knowledge. | Administrator of a company creates and manages the knowledge and associate actions to them |
| REQ-007 | Front-End: Create products | Administrator of a company creates, manages products and associate the knowledge to them. |
| REQ-008 | Front-End: Create questions | Administrator creates and manages the questions for the part of the company and product survey. |
| REQ-009 | Front-End: Visualize the result of a specific survey | Administrator of a company can visualize the survey in text form |
| REQ-010 | Front-End: Export the surveys | Administrator can export the surveys of his company to a file in CSV format. |
| REQ-011 | Client: response of survey | A client selects a company and a product to respond to the survey. |
| REQ-012 |  |  |

## Use Cases

|  |
| --- |
| **Use Case Nr: 01** |
| Name | Back-End: Create and manage new company |
| Author | Vadim Budagov |
| Priority | High |
| Requirements | REQ-001 |
| Trigger | New company should be created and stored in the DB |
| Stakeholder | Administrator |
| Precondition | Admin is already logged in to Joomla. |
| Postcondition | The created company with information is displayed. |
| Result | New company is created and stored in the system. |
| Main scenario | 1. Admin selects the option 'company' 2. Admin selects the option ‘new’ 3. Admin enters the company information 4. Press ‘save’ information |
| Alternative scenario |  |
| Failure scenario | 4. It will be checked if all the requested parameters have been entered and in the correct format. Otherwise an error message is issued.  4. To abort the operation, the button 'cancel' should be selected. |

|  |
| --- |
| **Use Case Nr: 02** |
| Name | Back-End: Create and manage new knowledge |
| Author | Vadim Budagov |
| Priority | High |
| Requirements | REQ-002 |
| Trigger | Admin wants to create and to store the knowledge information in the DB |
| Stakeholder | Administrator |
| Precondition | Admin is already logged in to Joomla. |
| Postcondition | The created knowledge with information is displayed. |
| Result | Knowledge is created and stored in the system. |
| Main scenario | 1. Admin selects the option 'company' 2. Admin selects the option ‘new knowledge’ 3. Admin enters the knowledge information 4. Press ‘save’ information |
| Alternative scenario |  |
| Failure scenario | 4. It will be checked if all the requested parameters have been entered and in the correct format. Otherwise an error message is issued.  4. To abort the operation, the button 'cancel' should be selected. |

|  |
| --- |
| **Use Case Nr: 03** |
| Name | Back-End: Create and manage new products |
| Author | Vadim Budagov |
| Priority | High |
| Requirements | REQ-003 |
| Trigger | Admin wants to create and insert a new product in the DB |
| Stakeholder | Administrator |
| Precondition | Admin is already logged in to Joomla. |
| Postcondition | The created product with information is displayed. |
| Result | New product is created and stored in the system. |
| Main scenario | 1. Admin selects the option 'product' 2. Admin selects the option ‘new product’ 3. Admin enters the product information/description 4. Press ‘save’ |
| Alternative scenario |  |
| Failure scenario | 4. It will be checked if all the requested parameters have been entered and in the correct format. Otherwise an error message is issued.  4. To abort the operation, the button 'cancel' should be selected. |

|  |
| --- |
| **Use Case Nr: 04** |
| Name | Back-End: Create and manage new questions for the general part of the survey. |
| Author | Vadim Budagov |
| Priority | High |
| Requirements | REQ-004 |
| Trigger | New surveys are to be carried out. |
| Stakeholder | Administrator |
| Precondition | Admin is already logged in to Joomla. |
| Postcondition | The created questions for a survey are displayed. |
| Result | New questions are created and stored in the system. |
| Main scenario | 1. Admin selects the option 'survey' 2. Admin selects the option ‘new question’ 3. Admin enters new questions 4. Press ‘save’ |
| Alternative scenario | //TODO |
| Failure scenario | 4. It will be checked if all the requested parameters have been entered and in the correct format. Otherwise an error message is issued.  4. To abort the operation, the button 'cancel' should be selected. |

|  |
| --- |
| **Use Case Nr: 05** |
| Name | Front-End: Visualize the company data |
| Author | Vadim Budagov |
| Priority | High |
| Requirements | REQ-005 |
| Trigger | An admin of a company wants to visualize the information of his own company |
| Stakeholder | Administrator of a company |
| Precondition | Admin is already logged in to Front-End. |
| Postcondition | All information of the company is visible for Admin. |
| Result | The company data is displayed. |
| Main scenario | 1. Admin selects his own company 2. Admin selects the option ‘show information’ |
| Alternative scenario | //TODO |
| Failure scenario | 3. The authority of the admin and the company will be checked. Otherwise an error message is issued, and procedure will be aborted. |

|  |
| --- |
| **Use Case Nr: 06** |
| Name | Front-End: Create and manage new knowledge |
| Author | Vadim Budagov |
| Priority | High |
| Requirements | REQ-006 |
| Trigger | Administrator of a company creates and manages the knowledge and associate actions to them. |
| Stakeholder | Administrator of a company |
| Precondition | Admin is already logged in to Front-End. |
| Postcondition | The created knowledge with information is displayed. |
| Result | Knowledge is created and stored in the system. |
| Main scenario | 1. Admin selects the option 'company' 2. Admin selects the option ‘new knowledge’ 3. Admin enters the knowledge information 4. Press ‘save’ information |
| Alternative scenario | //TODO |
| Failure scenario | 4. It will be checked if all the requested parameters have been entered and in the correct format. Otherwise an error message is issued.  4. To abort the operation, the button 'cancel' should be selected. |

|  |
| --- |
| **Use Case Nr: 07** |
| Name | Front-End: Create products |
| Author | Vadim Budagov |
| Priority | High |
| Requirements | REQ-007 |
| Trigger | Admin of a company wants to create a new product for his company. |
| Stakeholder | Administrator of a company. |
| Precondition | Admin is already logged in to Front-End. |
| Postcondition | The created product is displayed with its information. |
| Result | The product is created and stored in the system. |
| Main scenario | 1. Admin selects the option 'products' 2. Admin selects the option ‘new product’ 3. Admin enters the product information 4. Press ‘save’ new product |
| Alternative scenario | //TODO |
| Failure scenario 1 | 4. It will be checked if all the requested parameters have been entered and in the correct format. Otherwise an error message is issued.  5. To abort the operation, the button 'cancel' should be selected. |
| Failure scenario 2 | 4. The web site is disconnected with DB.  5. The error message is displayed, and the process is cancelled. |

|  |
| --- |
| **Use Case Nr: 08** |
| Name | Front-End: Create questions |
| Author | Vadim Budagov |
| Priority | High |
| Requirements | REQ-008 |
| Trigger | Admin wants to create new questions regarding his company or a product. |
| Stakeholder | Administrator of a company |
| Precondition | Admin is already logged in to Front-End. |
| Postcondition | The created question is displayed |
| Result | The new question is created and stored in the DB |
| Main scenario | 1. Admin selects the option 'Questions' 2. Admin selects the option ‘new question’ 3. Admin enters the question 4. Press ‘save’ new question |
| Alternative scenario | //TODO |
| Failure scenario 1 | 4. It will be checked if all the requested parameters have been entered and in the correct format. Otherwise an error message is issued.  5. To abort the operation, the button 'cancel' should be selected. |
| Failure scenario 2 | 4. The web site is disconnected with DB.  5. The error message is displayed, and the process is cancelled. |

|  |
| --- |
| **Use Case Nr: 09** |
| Name | Front-End: Visualize the result of a specific survey. |
| Author | Vadim Budagov |
| Priority | High |
| Requirements | REQ-009 |
| Trigger | Admin of a company wants to visualize the results of specific survey in a text form. |
| Stakeholder | Administrator of a company. |
| Precondition | Admin is already logged in to Front-End. |
| Postcondition | The results are visualized in a text form. |
| Result | The results of a survey are displayed on the web site. |
| Main scenario | 1. Admin selects the option 'surveys' 2. Admin selects a specific survey 3. Admin selects ‘show results’ |
| Alternative scenario | //TODO |
| Failure scenario | 4. It is checked whether the results already exist.  5. If not, an error message is displayed. |

|  |
| --- |
| **Use Case Nr: 10** |
| Name | Front-End: Export the surveys in a CSV-file |
| Author | Vadim Budagov |
| Priority | High |
| Requirements | REQ-010 |
| Trigger | Admin wants to export the surveys of his company to a file in CSV format. |
| Stakeholder | Administrator of a company |
| Precondition | Admin is already logged in to Front-End. |
| Postcondition | Surveys are exported in a CSV-file |
| Result | CSV file with survey results can be downloaded. |
| Main scenario | 1. Admin selects the option 'surveys' 2. Admin selects the option ‘export to a CSV’ 3. CSV was created and can be downloaded 4. Press ‘download CSV’ |
| Alternative scenario | //TODO |
| Failure scenario | 4. ????????? |

|  |
| --- |
| **Use Case Nr: 11** |
| Name | Client: Response the survey |
| Author | Vadim Budagov |
| Priority | High |
| Requirements | REQ-011 |
| Trigger | A customer would like to respond the survey |
| Stakeholder | Client |
| Precondition | Client has access to the surveys |
| Postcondition | Client participated in the survey |
| Result | The answers of a client are stored in the system |
| Main scenario | 1. Client selects the option ‘Companies’. 2. Client selects a company with a click. 3. Client selects a product for which he wants to answer the questions. 4. Client fills out the survey. 5. Client clicks the button ‘send’ 6. Message is displayed: “Successfully participated in the survey” |
| Alternative scenario | //TODO |
| Failure scenario | 1. A survey to a product isn’t available. 2. The process is cancelled |

Ein Bild, das Himmel, Karte, Text, Foto enthält.

Automatisch generierte Beschreibung

Ein Bild, das Karte enthält.

Automatisch generierte Beschreibung

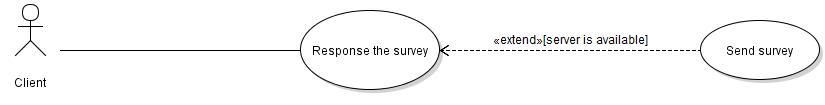
Notice: The same applies to companies, products, knowledge and questions of survey!!!

Ein Bild, das Karte, Text enthält.

Automatisch generierte Beschreibung

Ein Bild, das Karte, Himmel, Text, Foto enthält.

Automatisch generierte Beschreibung



# Design

## System Context Diagram and Packages

Ein Bild, das Text, Karte enthält.

Automatisch generierte Beschreibung

Ein Bild, das Screenshot enthält.

Automatisch generierte Beschreibung

Ein Bild, das Screenshot enthält.

Automatisch generierte Beschreibung

## List and description of the components

|  |  |
| --- | --- |
| **Component** | **Description** |
| name | … |

## Component /Class Diagramm

## State Machines? May be!

# Attachment

## Glossary

|  |  |
| --- | --- |
| **Term** | **Explanation** |
|  |  |

## Acronym