# Amadeus It Group PHP Developer Technical Task

Software Requirements Specifications

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Document history

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| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Description** |
| **1.0** | Aug 17, 2017 | Macseem | Initial revision |
| 1.0 | Aug 28, 2016 | Alexander Hrybok |  |
|  |  |  |  |

# 1. Introduction

Hello %username%. Here would be your start point in big amadeus company. This task is like a game and I hope it would be interesting. In any case, imagine a zoo. It contains animals. Animals like birds, fish, etc. These animals have their abilities, for instance, birds can fly, fish can swim, monkeys can walk. Every animal has to eat, that's why every animal has such ability. There are several issues and we hope you'd solve them for us.

## 1.1 Instructions

* Create a branch named by your name.surname
* Look at our code, believe me, it's kinda shitty
* Make this code as good as you can
  + Make as many commits as you want
  + Show us you power
* Push into a repository
* Create a Pull Request
* Wait until our CI commit into your branch a new file with new instructions (in progress, hasn't been done yet)

## 1.2 Scope

## 1.3 Terms and definitions

|  |  |
| --- | --- |
| **Term** | **Definition** |
| **Admin/Administrator** | System administrator who is given specific permission to manage and control the system. |
| **Operator** | User registered by admin, who should have access personal information. |
| **Administrative part of the website** | A part of a web project that is closed for guests and operators. The project part managed by an administrator. |
| **Web browser** | A third-party supplied program that allows to view web page content. |
| **Web interface** | Interaction between the user and the software running on a Web server. |
| **Web project** | A connected group of pages on the World Wide Web regarded as a single entity, usually maintained by one person or organization and devoted to a single topic or several closely related topics |
| **Hyperlink** | An electronic link that allows a computer user to move directly from a marked place in a hypertext document to another in the same or a different document. |
| **Web project design** | A unique structure of a particular web project, graphic design and ways of presenting data. |
| **Content Management System** | A content management system (CMS) is a computer application that allows publishing, editing, modifying, organizing, deleting, and maintaining content from a central interface. Such systems of content management provide procedures to manage workflow in a collaborative environment. |
| **Third-party website** | A website that is owned neither by the Company, nor by the Service Provider |
| **Web Server** | A machine that hosts web pages. A web server is what makes world wide web possible. Each website has one or more web servers. |

# 3. Application description

## 3.1 Overall description

todo

## 3.2 Use case diagram

## 3.3 General part of the web project

# 3.4 Structure core

/Public - web path (images , css);  
/docs – documentations;  
/src/Amadeus/Animals/ - Base class;  
/src/Amadeus/Animals/Skill/\* - Skills;

….

# 4. Application requirements

## 4.1 Requirements for personnel

In order to support the web project, the personnel should not be required to have special IT skills or deep knowledge of technologies and programming, except for general skills in PC and web browsers (Chrome, Firefox, Safari, Edge or Internet Explorer 11) usage.

## 4.2 Information security requirements

Web server must have a backup copy mechanism in order to store the database structure and content. The backup procedure must be carried out at least once a week by an employee responsible for the website support. Graphic content back up should be carried out manually (by the website system administrator or its hosting company).

## 4.3 Access control requirements

The information available on the website is public if approved for publishing by the client.

## 4.4 Data storage requirements

All data should be kept in a structured form under relational database managements system, except for the files for viewing and downloading (images, video, document, etc.). Such files are kept in the file system and links to these files are kept in the database.

## 4.5 Programming language requirements

HTML and CSS should be used for static pages and templates. Source code must be developed according to W3C standards (HTML 5).

JavaScript (jQuery) and DHTML should be used for interactive elements of the client side.

PHP should be used for dynamic pages.

## 4.6 Language requirements

The web project should be in English.

## 4.7 Software requirements

Programming software of the client side should meet the following requirements:

**Web browser:** Latest versions of Firefox, Safari, or Chrome, Edge or Internet Explorer 11.

JavaScript and Cookies support should be switched on.

*Note: If using Internet Explorer 10.0 or earlier, consistent work is not guaranteed due to technical capabilities of this browser.*

## 4.8 Hardware requirements

Server side hardware should meet the following requirements:

* Apache web server with MOD\_REWRITE module
* At least 3 GB of free disk space
* PHP >= 7 (modules: Mcrypt PHP Extension, OpenSSL PHP Extension, Mbstring PHP Extension)
* MySQL 5.0.95 or later

There should also be a possibility to set up a crontab file. This is for everyday email parsing and is done by the server admin.

# 5. Development stages and work types

Detailed development stages are shown in Table below.

|  |  |
| --- | --- |
| **№** | **Type of work** |
| **Preliminary work** | |
| **1** | Market research, technical specifications development |
| **2** | Design templates development in PSD (Adobe Photoshop) format for Application pages |
| **3** | Template coding in HTML, table style development in CSS |
| **4** | Design templates link to base application (standard pages) |
| **5** | Creation of Test Cases |
| **Admin side** | |
| **5** | System core development |
| **6** |  |
| **7** |  |
| **8** |  |
| **9** |  |
| **10** |  |
| **11** |  |
| **Testing** | |
| **1** | Quality Assurance Testing |
| **2** | User Acceptance Testing |

# 6. Website control and delivery

## 6.1 Test types, volume, methods and content

Delivery and Acceptance of the completed works must be implemented after submitting the necessary documentation to the Client by the Service Provider. The Client needs to approve the work and both the Client and the Service Provider must sign an Acceptance Certificate.

Website testing is performed by the Service Provider based on the Test Cases approved by the Client

## 6.2 General requirements for the website approval

The website must be approved by a special committee consisting of members of both the Service Provider and the Client. It must be approved within three days of the User Acceptance Test completion. The committee results must be included into the Acceptance Certificate signed by the Service Provider and the Client.

## 6.3 Submission requirements

A number of procedures must be implemented to ensure correct and effective work of the website.

Transfer hosting parameters must be consistent with the requirements laid out in section 4 of the current document. The website, design template in HTML, structure and database should be transferred to a web hosting. Data transfer should be completed within 3 to 10 working days after signing the Acceptance Certificate, depending on additional website settings for the website efficiency.