**Test Plan**

**Educational Center of High-Tech Park (IT-Academy) it-academy.by**

|  |  |
| --- | --- |
| **Related Artifacts** | |
| **Name** |  |
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| **Abbreviations and Acronyms** | |
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# 1. Introduction

There is website it-academy.by of Educational Center of High-Tech Park (IT-Academy) which works successful many years, but site will be redesign near time. Educational Center of High-Tech Park stands task front of team testers “Bugbusters” conduct tests, and find spots for improvement application and his efficiency. Also it can create test artifacts which lost. That web application has some goals:

1. To attract potential clients
2. To convert visitors to client

There is target audience which conducts two the biggest groups:

1. People who want take courses
2. People who want rent place

This document describes contain all information about approach and methodologies, resources and the testing team necessary for reaches mark goals.

# 2. Scope of work

## 2.1 Components and functions to be tested

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Application/ component name** | **Function name** | **Reference** |
|  | it-academy.by  (Desktop version) | **Минск/Гродно**  **IT Практикум/IT Practice Lab**  **Акции и новости:**   * Акции * Интервью * Новости * СМИ об IT-Академии * События * Статьи   **О центре:**   * Об IT-Академии * Преподаватели * Команда * Вакансии для тренеров * Вопросы и ответы * Аренда помещений * Контакты * Галерея * Видео   **Трудоустройство:**   * С чего начать обучение? * На кого учиться? * Карьера в ИТ * Радар вакансий в IT * Слушателям ОЦ ПВТ * Выпускникам ОЦ ПВТ * Истории успех   **Отзывы** | TBD |
|  | it-academy.by  (Desktop version) | **Поиск** |  |
|  | it-academy.by  (Desktop version) | **Контактная информация (консультация и запись)** |  |
|  | it-academy.by  (Mobile version) | **Минск/Гродно**  **IT Практикум/IT Practice Lab**  **Акции и новости:**   * Акции * Интервью * Новости * СМИ об IT-Академии * События * Статьи   **О центре:**   * Об IT-Академии * Преподаватели * Команда * Вакансии для тренеров * Вопросы и ответы * Аренда помещений * Контакты * Галерея * Видео   **Трудоустройство:**   * С чего начать обучение? * На кого учиться? * Карьера в ИТ * Радар вакансий в IT * Слушателям ОЦ ПВТ * Выпускникам ОЦ ПВТ * Истории успех   **Отзывы** |  |
|  | it-academy.by  (Mobile version) | **Поиск** |  |
|  | it-academy.by  (Mobile version) | **Контактная информация (консультация и запись)** |  |

## 2.2 Components and functions not to be tested

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Application/ component name** | **Function name** | **Reference/Comment** |
|  | it-academy.by  (Desktop version) | **Минск/Гродно**  **Homepage**  **Обучение**  Программирование:   * Промышленная разработка ПО на ASP.NET * Разработка веб-приложений на PHP * Разработка мобильных приложений на Android * Курсы создания сайтов и Front-end разработки * Промышленная разработка программного обеспечения на Java * Разработка игр на С++ * Разработка мобильных приложений под iOS * Разработка веб-приложений на Python   **Тестирование ПО**   * Ручное тестирование ПО * Автоматизированное тестирование на Python * Автоматизированное тестирование на Java (курс EPAM)   **Бизнес-анализ**   * Бизнес - анализ   **Веб-дизайн**   * Веб-дизайн   **Администри­рова­ние веб-систем**   * Администрирование Linux   **Маркетинг и продажи**   * Интернет-маркетинг * Продажи и развитие бизнеса   **Технологии успеха**   * Технологии успеха   **Английский для IT**   * Английский для IT   **Комплексные программы обучения**   * Full-stack Java разработка * Full-stack ASP.NET разработка * Full-stack Web Design * Full-stack интернет-маркетинг * Подготовительные курсы * Подготовительные курсы | TBD |
|  | it-academy.by  (Desktop version) | **Footer** |  |
|  | it-academy.by  (Mobile version) | **Минск/Гродно**  **Homepage**  **Обучение**  Программирование:   * Промышленная разработка ПО на ASP.NET * Разработка веб-приложений на PHP * Разработка мобильных приложений на Android * Курсы создания сайтов и Front-end разработки * Промышленная разработка программного обеспечения на Java * Разработка игр на С++ * Разработка мобильных приложений под iOS * Разработка веб-приложений на Python   **Тестирование ПО**   * Ручное тестирование ПО * Автоматизированное тестирование на Python * Автоматизированное тестирование на Java (курс EPAM)   **Бизнес-анализ**   * Бизнес - анализ   **Веб-дизайн**   * Веб-дизайн   **Администри­рова­ние веб-систем**   * Администрирование Linux   **Маркетинг и продажи**   * Интернет-маркетинг * Продажи и развитие бизнеса   **Технологии успеха**   * Технологии успеха   **Английский для IT**   * Английский для IT   **Комплексные программы обучения**   * Full-stack Java разработка * Full-stack ASP.NET разработка * Full-stack Web Design * Full-stack интернет-маркетинг * Подготовительные курсы * Подготовительные курсы |  |
|  | it-academy.by  (Mobile version) | **Footer** |  |

## 2.3 Third-party components

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Component name** | **Component role** | **Reference/Comment** |
| 1 | Firefox | Browser | https://www.mozilla.org/ru/firefox |
| 2 | I E 11 | Browser | https://www.microsoft.com/ |
| 3 | Safari (Mac OS) | Browser | https://safari.ru/mac |
| 4 | Chrome | Browser | https://www.google.ru/chrome/index.html |
| 5 | Jira | Software integrates development tools |  |
| 6 | MS Office | Create test cases, check lists | www.microsoft.com/ |
| 7 | Google docs | Create test cases, check lists | - |
| 8 | Google disk | Team Communication | - |
| 9 | Viber | Team Communication | - |

# 3. Quality and acceptance criteria

* All necessary artifacts сollected: check lists, test cases and bug reports
* The product should not have known bugs with severity Critical and Major, and bugs with Priority High at the time of finish testing

# 4. Critical success factors

* Jira access.
* Access to it-academy website.
* Viber access, exact deadlines.
* Responsibility of all team members.
* Meet a schedule and complete development and testing of all functionality in term.

# 5. Risk management

|  |  |  |  |
| --- | --- | --- | --- |
| **Risk** | **Probability** | **Impact** | **Actions** |
| Problems in the test equipment. Breakdown of computer hardware or failures on the server side of the project. This can lead to a significant slowdown in project activities. | L | M | Availability of spare equipment, which will be provided if necessary. |
| The testing team consists of inexperienced workers, this can lead to the omission of a different kinds of bugs. | VH | VH | Experienced people: RM or other tester will help testing team resolve any problems in urgent cases. |
| Different types of leave (sickness or vacation) of any Member of the testing team, can lead to additional workload on other participants of the project. | H | M | RM can provide to project for an additional temporary person to work during the absence of a team member. |
| Force majeure circumstances that may lead to the de-energization of the workplace, which will lead to the suspension of work on the project | L | M | The presence of another room in the absence of electricity at the permanent workplace |

Legend:

VH – Very High; H – High; M – Medium; L - Low

# 6. Resources

## 6.1 Key project resources

|  |  |  |
| --- | --- | --- |
| **#** | **Project Role** | **Name, e-mail, location** |
| 1 | Project Manager | Lidziya |
| 2 | Test Leader | 1. (23.05.18-30.05.18) - Vladimir, Minsk 2. (31.05.18-06.06.18) – Alexey, Minsk 3. (07.06.18-13.06.18) - Viktoryia, Minsk 4. (14.06.18-20.06.18) - Ekaterina, Minsk 5. (21.06.18-25.06.18) - Denis, Minsk |

## 6.2 Test team

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Project Role** | **Name** | **Location** | **Responsibilities** |
| 1 | Test | Alexey | Minsk | Development of test-cases, executing and writing bug reports. |
| 2 | Test | Vladimir | Minsk | Development of test-cases, executing and writing bug reports. |
| 3 | Test | Denis | Minsk | Development of test-cases, executing and writing bug reports. |
| 4 | Test | Ekaterina | Minsk | Development of test-cases, executing and writing bug reports. |
| 5 | Test | Viktoryia | Minsk | Development of test-cases, executing and writing bug reports. |

## 6.3 Test hardware

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Role** | **Resource** | **Hardware configuration** | **Software configuration** |
| 1 | Client | Smartphone Apple | Apple 6s  A9 chip with 64-bit architecture | iOS 11.3.1 |
| 2 | Client | Tablet Apple | Ipad 7 v.11.2 (15C114) | iOS 11.3.1 |
| 3 | Client | Smartphone Android | Xiaomi Redmi 5  Processor: max 1.40 Ggc | Android 7.1.2 |
| 4 | Client | Smartphone Android | RAM: 2 GB  Processor: Qualcomm Snapdragon 600 APQ8064T | Android 5.0.2 |
| 5 | Client | PC | RAM: 4 Gb  Processor: AMD Athlon | Win 7 64 bit |

## 6.4 Test tools

|  |  |  |
| --- | --- | --- |
| **#** | **Tool** | **Comment** |
| 1 | Jira | Tracking of bugs and documentation. |
| 2 | MS Office Excel | Creating test-cases |

# 7. Test documentation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Title** | **Responsible person(s)** | **Frequency (delivery time)** | **Method of delivery** |
| 1 | <it-academy.by> Test Plan | * Alexey * Vladimir * Denis * Ekaterina * Viktoryia | Once before the testing start | Google disk |
| 2 | <MS Office Excel>  Check lists | * Alexey * Vladimir * Denis * Ekaterina * Viktoryia | Before the testing start | Google disk |
| 3 | <MS Office Excel>  TestCases | * Alexey * Vladimir * Denis * Ekaterina * Viktoryia | Before the testing start | Google disk |
| 4 | <Jira>  Bug reports | * Alexey * Vladimir * Denis * Ekaterina * Viktoryia | Upon finding a bug | Google disk  jira |
| 5 | <MS Office Word>  Test Result Reports | * Alexey * Vladimir * Denis * Ekaterina * Viktoryia | Once after the testing finish | Google disk |

# 8. Test strategy

The it-academy.by applications will be tested using a “black box” approach without knowledge of the internal structure or program source code.

## 8.1 Entry criteria

The Testing Team may suspend partial or full-testing activities on a given build if any of the following occurs:

* There is a fault with a feature that prevents its testing.
* A severe problem has occurred that does not allow testing to continue.

## 8.2 Test methods

Testing is the process of attempting to find discrepancies between the program and its functional specification/ requirements. The goal is to make sure that all functions of the it-academy.by applications work correctly.

* Manual functional testing – is considered as the main method of the application testing.

## 8.3 Test types

Functional testing is a type of testing which verifies that each function of the software application operates in conformance with the requirement specification.

GUI Testing is performed by interacting with the software under test via the graphical user interface. Verifies that user interface meets design guidelines, ensures UI controls, input fields work as expected

Compatibility Testing - Compatibility Testing determines whether the product operates correctly in configurations with various operating systems, browsers.

## 8.4 Test levels

**8.4.1 Smoke Test** is performed to quickly assess the readiness of the product for further more deep and thorough testing. It includes testing it-academy.byapplications major functions on the one most often used and consequently most important server/ client configuration.

If Smoke Test failed, Testing Team sends notification and suspends testing until corrected version of the product is available.

**8.4.2 Critical Path Test**will be performed after Smoke Test is passed. The goal of the Critical Path Test is to find bugs that could affect the major functionality of the application that is most important for the product users. Critical Path Test will be performed manually.

**8.4.3 Extended Test’s**goal to find bugs related to the non-typical but still possible and likely usage scenarios (e.g. entering the incorrect data into the fields, boundary testing and so on). Extended Test will be performed according to test cases.

## 8.5 Bug and documentation tracking

Tools described in the section [Test Tools](#zhrhuijwbxuz) will be used for bug reporting and documentation tracking. The bug metrics and statistics will be included in the test results reports.

### 8.5.1 Bug severity definition

**Blocker** - Blocks development and/or testing work, production could not run.   
**Critical** - Crashes, loss of data, severe memory leak.   
**Major** - Major loss of function.   
**Minor** - Minor loss of function, or other problem where easy workaround is present.   
**Trivial** - Cosmetic problem like misspelled words or misaligned text

# 9. Testing schedule

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Activity** | **Begin Date** | **End Date** | **Assignment** | **Location** | **Work content** |
| 1 | Test plan creation | 25.05.2018 | 27.05.2018 | Test Plan Bugbusters v.1.docx | 2. For report\_Bugbusters\_team | 3 days |
| 2 | Сreation of check-lists | 28.05.2018 | 03.06.2018 | Test cases template.xlsx | 2. For report\_Bugbusters\_team | 7 days |
| 3 | Writing test cases | 04.06.2018 | 10.06.2018 | Test cases template.xlsx | 2. For report\_Bugbusters\_team | 7 days |
| 4 | Testing and writing bug reports | 11.06.2018 | 17.06.2018 | Jira | jira.it | 7 days |
| 5 | Тhe creation of a Final TRR, preparation of presentations | 18.06.2018 | 25.06.2018 | Final TRR.docx | 2. For report\_Bugbusters\_team | 7 days |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Revision history** | | | | | |
| **Ver.** | **Description of Change** | **Author** | **Date** | **Approved** | |
| **Name** | **Effective Date** |
| 1 |  | Vladimir | 27.05.2018 | Lidziya | 28.05.2018 |
| 2 | **2.3 Third-party components ( Reference/Comment)**  **4. Critical success factors.**  **7. Test documentation (Responsible person(s)).**  **8. Test strategy.** | Ekaterina | 30.05.2018 | Lidziya | 30.05.2018 |