

Test Plan

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

Related Artifacts	
Name	

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: <ul style="list-style-type: none">• Акции• Интервью• Новости• СМИ об IT-Академии• События• Статьи О центре: <ul style="list-style-type: none">• Об IT-Академии• Преподаватели• Команда• Вакансии для тренеров• Вопросы и ответы• Аренда помещений• Контакты• Галерея• Видео Трудоустройство: <ul style="list-style-type: none">• С чего начать обучение?• На кого учиться?• Карьера в IT• 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: <ul style="list-style-type: none"> • Акции • Интервью • Новости • СМИ об IT-Академии • События • Статьи О центре: <ul style="list-style-type: none"> • Об IT-Академии • Преподаватели • Команда • Вакансии для тренеров • Вопросы и ответы • Аренда помещений • Контакты • Галерея • Видео Трудоустройство: <ul style="list-style-type: none"> • С чего начать обучение? • На кого учиться? • Карьера в IT • 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 Номерpage Обучение Программирование: <ul style="list-style-type: none"> • Промышленная разработка ПО на 	TBD

		<p>ASP.NET</p> <ul style="list-style-type: none"> • 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 C++ • Разработка мобильных приложений под iOS • Разработка веб-приложений на Python <p>Тестирование ПО</p> <ul style="list-style-type: none"> • Ручное тестирование ПО • Автоматизированное тестирование на Python • Автоматизированное тестирование на Java (курс EPAM) <p>Бизнес-анализ</p> <ul style="list-style-type: none"> • Бизнес - анализ <p>Веб-дизайн</p> <ul style="list-style-type: none"> • Веб-дизайн <p>Администри-рова-ние веб-систем</p> <ul style="list-style-type: none"> • Администрирование Linux <p>Маркетинг и продажи</p> <ul style="list-style-type: none"> • Интернет-маркетинг • Продажи и развитие бизнеса <p>Технологии успеха</p> <ul style="list-style-type: none"> • Технологии успеха <p>Английский для IT</p> <ul style="list-style-type: none"> • Английский для IT <p>Комплексные программы обучения</p> <ul style="list-style-type: none"> • Full-stack Java разработка • Full-stack ASP.NET разработка • Full-stack Web Design • Full-stack интернет-маркетинг • Подготовительные курсы • Подготовительные курсы 	
	it-academy.by (Desktop version)	Footer	
	it-academy.by (Mobile version)	<p>Минск/Гродно</p> <p>Homepage</p> <p>Обучение</p> <p>Программирование:</p> <ul style="list-style-type: none"> • Промышленная разработка ПО на ASP.NET • Разработка веб-приложений на 	

		<p>RНР</p> <ul style="list-style-type: none"> • Разработка мобильных приложений на Android • Курсы создания сайтов и Front-end разработки • Промышленная разработка программного обеспечения на Java • Разработка игр на C++ • Разработка мобильных приложений под iOS • Разработка веб-приложений на Python <p>Тестирование ПО</p> <ul style="list-style-type: none"> • Ручное тестирование ПО • Автоматизированное тестирование на Python • Автоматизированное тестирование на Java (курс EPAM) <p>Бизнес-анализ</p> <ul style="list-style-type: none"> • Бизнес - анализ <p>Веб-дизайн</p> <ul style="list-style-type: none"> • Веб-дизайн <p>Администри-рова-ние веб-систем</p> <ul style="list-style-type: none"> • Администрирование Linux <p>Маркетинг и продажи</p> <ul style="list-style-type: none"> • Интернет-маркетинг • Продажи и развитие бизнеса <p>Технологии успеха</p> <ul style="list-style-type: none"> • Технологии успеха <p>Английский для IT</p> <ul style="list-style-type: none"> • Английский для IT <p>Комплексные программы обучения</p> <ul style="list-style-type: none"> • 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	IE 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 collected: 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	H	M	RM can provide to project for an additional temporary

vacation) of any Member of the testing team, can lead to additional workload on other participants of the project.			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	<ul style="list-style-type: none"> • Alexey • Vladimir • Denis • Ekaterina • Viktoryia 	Once before the testing start	Google disk
2	<MS Office Excel> Check lists	<ul style="list-style-type: none"> • Alexey • Vladimir • Denis • Ekaterina • Viktoryia 	Before the testing start	Google disk
3	<MS Office Excel> TestCases	<ul style="list-style-type: none"> • Alexey • Vladimir • Denis • Ekaterina • Viktoryia 	Before the testing start	Google disk
4	<Jira> Bug reports	<ul style="list-style-type: none"> • Alexey • Vladimir • Denis • Ekaterina • Viktoryia 	Upon finding a bug	Google disk jira
5	<MS Office Word> Test Result Reports	<ul style="list-style-type: none"> • 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.by applications 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 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	Creation 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	The 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