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**A-Z-Animals.com believes that if people are educated about the world’s animal species, they will better care for them. Therefore, we are becoming the most comprehensive and authoritative resource for animal information online.**

**Website: https://a-z-animals.com/**

**Test Plan v 1.0**

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# 1. Introduction

The purpose of the resource of A-Z-Animals.com believes that if people are educated about the world’s animal species, they will better care for them.

This web resource, the most comprehensive and authoritative resource for animal information online.

The material found here represents the most modern understanding of a given species, ranging from scientific name to diet, habitat, and more. We also present an animal’s conservation status whenever possible so that readers can take action to protect a species.

All caring people on earth can use our resource to search and rescue endangered species of animals.

The **TBE team** will conduct a complete revision of this web application to identify GUI and functional errors in order to correct them and improve them for later use.

# 2. Scope of work

## 2.1 Components and functions to be tested

[You can go to the expanded checklist by clicking on the link](https://docs.google.com/spreadsheets/u/0/d/1PeE8ji8ZiQDONEE6Q9rsQBNTphBBOs2zLTUTYe40tlM/edit)

## 2.2 Third-party components

| **№** | **Component name** | **Component role** | **Reference/Comment** |
| --- | --- | --- | --- |
| 1 | Google Chrome | Browser | 64.92% in the World |
| 2 | Apple Safari | Browser | 9.75% in the World |
| 3 | Microsoft Edge | Browser | 9.56% in the World |
| 4 | Mozilla Firefox | Browser | 9.41% in the World |
| 5 | Opera | Browser | 2.41% in the World |
| 6 | Jira | Software integrates development tools |  |
| 7 | MS Office Word | Create test plan |  |
| 8 | MS Office Excel | Create TRR |  |
| 9 | Xray test management | Create test-cases |  |

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# 3. Quality and acceptance criteria

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

# 4. Critical success factors

* Software accessibility (Jira, Xray)
* Test environment (Browsers, OC Version, Test Build)
* Strategic focus (Management, Planning, Communication, Priority Setting)
* Team members availability

# 5. Risk management

| **Risk** | **Impact** | **Actions** |
| --- | --- | --- |
| Requirements change / change requests are accepted without appropriate risk / impact and resource requirements analysis. | H | Strict change control, in which the testing team is actively involved. |
| Requirements are not well-defined before the development phase -> The development team implements this from their point of view. -> The testing team checks this from their point of view. As a result, many problems are discovered, and it takes a long time to study them. | VH | Product Business Owner and BAs specify sufficiently the requirements: which changes have to be applied, where it has to be applied and in what way it has to be applied (clear business logic). The requirements are reviewed and signed-off by DEV and QA (during the Technical refinement sessions) |
| The sprint scope is changed, new features are added. | H | Review with all participants in the development of the project, a meeting is scheduled |
| Testing team member illness | M | Always pass on unique knowledge to another tester |
| Incomplete estimation of labor costs for testing | H | Review with Test Team Lead, BA, meeting scheduled |
| Skipping implicit requirements | M | Review with all members of the development team (BA, PM, Test Team Lead) |
| Wrong definition of test types | H | Review with Test Team Lead, meeting scheduled |
| Wrong definition of configurations in which testing will be carried out | VH | Review with Test Team Lead, meeting scheduled |
| Dismissal of employees | M | “Agreeing with neighbors” is just talking with neighboring departments or projects (which also have this risk) and agree that in the event of such an event, they can somehow (if the specificity of the product and the current workload allow it) to help you with people. |
| Potential loss of audience due to low demand for the web version as opposed to the mobile application | M | User preference statistics based on reviews and audience distribution for mobile and web versions |
| As the product becomes more complex (adding new functions), any change can affect related functions, that is, the risk of regression increases. | H | Regression testing |
| Rapid growth in the number of users | M | Review with all members of the development team. |
| Falling access to the system with simultaneous connections and account creation. | H | Review with all members of the development team. |

Legend: VH – Very High; H – High; M – Medium; L – Low

# 6. Resources

## 6.1 Key project resources

| **№** | **Project Role** | **Name** | **E-mail** | **Location** | **Responsibilities** |
| --- | --- | --- | --- | --- | --- |
| 1 | Project Manager | Maksim  Antsuk | antsuk.max@gmail.com | Belarus |  |

## 6.2 Test team

| **№** | **Project Role** | **Name** | **E-mail** | **Location** | **Responsibilities** |
| --- | --- | --- | --- | --- | --- |
| 1 | Tester | Elena Pavlyukevich | pavlyukevich1996@mail.ru | Belarus | Test documentation creation, test cases creation, bug reporting, functional testing, TRR |
| 3 | Tester | Luk  Dmitry | d.fibber@gmail.com | Belarus |
| 4 | Tester | Raukach  Siarhei | rovkachse@gmail.com | Belarus |

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## 6.3 Test hardware

| **№** | **Role** | **Resource** | **Hardware configuration** | **Software configuration** |
| --- | --- | --- | --- | --- |
| 1 | Client | Smartphone Apple | Apple X  A10 chip with 64-bit architecture | iOS 15.6.1 |
| 2 | Client | Smartphone Apple | Iphone 12mini  Apple A14 Bionic  64-bit | iOS 15.16.1 |
| 3 | Client | Smartphone Android | Meizu 16  Snapdragon 710 chip | Flyme 7.3.0 |
| 4 | Client | PC | RAM: 12 Gb  Processor: Intel(R) Core™i7 CPU 2.80GHz | Windows 10 Pro 64 bit |
| 5 | Client | PC | RAM: 8 Gb  Processor: Intel Core i3 CPU 1.1 GHz | macOS Big Sur v.11.6.1 |
| 6 | Client | PC | RAM: 8 Gb  Processor: AMD Ryzen 5 5500U  CPU: 2.10GHz | Windows 10 Home 64 bit |

## 6.4 Test tools

| **№** | **Tool** | **Comment** |
| --- | --- | --- |
| 1 | Jira | Tracking of bugs and documentation |
| 2 | Google docs | Creating test-plan |
| 3 | Xray test management | Creating test-cases |

# 7. Test documentation

| **№** | **Title** | **Responsible person(s)** | **Frequency (delivery time)** | **Method of delivery** |
| --- | --- | --- | --- | --- |
| 1 | Test Plan | Dmitry Luk | Once before the testing start | Google disk |
| 2 | Check list | Elena Pavlyukevich  Luk Dmitry  Raukach Siarhei | Before the testing start | Google disk |
| 3 | Test cases | Elena Pavlyukevich  Luk Dmitry  Raukach Siarhei | Before the testing start | Xray test management |
| 4 | Bug report | Elena Pavlyukevich  Luk Dmitry  Raukach Siarhei | During testing | Jira |
| 5 | TRR | Elena Pavlyukevich  Luk Dmitry  Raukach Siarhei | After testing | Google disk |

# 8. Test strategy

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

## 8.1 Entry criteria

Entry criteria is a set of conditions or requirements, which are required to be fulfilled or achieved to create a suitable and favorable condition for testing:

Test-Plan is completed and approved by the Project manager.

Scope of work is defined, business requirements is signed and reviewed by the team before sprint start.

QA team have access to testing environment and all required tools.

QA team receive a notification about deployment status of the builds.

QA team may suspend partial or full-testing activities on a given build if any of the following occurs:

* It is impossible to install successfully the new build following the readme
* There is a fault with a feature that prevents its testing
* Application does not contain the specified change(s)
* New claimed functionality doesn’t work or works improperly
* A severe problem has occurred that does not allow testing to continue
* Development has not corrected the problem(s) that previously suspended testing
* A new version of the software is available to test

## 8.2 Test methods

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

Black Box and Grey Box are the main methods of testing by access to code.

## 8.3 Test types

* Functional testing
* Ad-hoc testing
* Exploratory testing
* Testing by test-cases
* Non-functional testing
* Cross-browser testing
* Cross-platform testing
* GUI-testing
* Localization testing

## 8.4 Test levels

* Smoke
* Critical path.
* Extended test

8.5 Bug and documentation tracking

**8.5.1 Bug severity definition**

| **Severity** | **Meaning** |
| --- | --- |
| Critical | The existence of a defect leads to catastrophic consequences on a large scale, for example: loss of data, disclosure of confidential information, disruption of key application functionality, etc. |
| Major | Defects cause significant inconvenience to many users in their typical activities, for example: clipboard inaccessibility, common keyboard shortcuts do not work, application has to be restarted when performing typical work scenarios. |
| Medium | The existence of a defect has little effect on typical user work scenarios, and/or there is a workaround to achieve the goal, for example: a dialog box does not close automatically after pressing “OK”/“Cancel” buttons, when printing several documents in a row the value of “Duplex printing” field value is not saved, sorting directions of a table field are mixed up. |
| Minor | The existence of a defect is rarely detected by a small percentage of users and (almost) does not affect their work, for example: a typo in a deeply nested menu item, some window at once is displayed awkwardly (one needs to drag it to a convenient place), inaccurately displayed time to complete copying operations files. |

**8.5.2 Bug Priority definition**

| **Priority** | **Meaning** |
| --- | --- |
| ASAP  As soon as possible | Indicates the need to fix the defect as quickly as possible. Depending on the context, “as soon as possible” can range from “in the nearest build” to minutes. |
| High | The defect should be fixed out of turn, as it is either already objectively disruptive or will become so in the near future. |
| Normal | The defect has to be fixed in the general order of priority. Most defects have this “Priority” field value. |
| Low | Fixing this defect will not have a significant impact on product quality in the foreseeable future. |

# 9. Testing schedule

| **№** | **Activity** | **Start date** | **End date** | **Responsible** |
| --- | --- | --- | --- | --- |
| 1 | Test plan creation | 08.23.2022 | 08.24.2022 | Dmitry Luk |
| 2 | Check-list creation | 08.23.2022 | 08.26.2022 | Elena Pavlyukevich  Luk Dmitry  Raukach Siarhei |
| 3 | Test cases creation | 08.27.2022 | 09.04.2022 | Elena Pavlyukevich  Luk Dmitry  Raukach Siarhei |
| 4 | Testing | 09.05.2022 | 09.09.2022 | Elena Pavlyukevich  Luk Dmitry  Raukach Siarhei |
| 5 | TRR | 09.10.2022 | 09.11.2022 | Elena Pavlyukevich  Luk Dmitry  Raukach Siarhei |

# 10. Schema of Test Environment

