

Software Test Plan



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Introduction

This document describes the design of the planned tests for the online pet shop website "JPetStore Demo".

The planning of the tests will be carried out using a System Requirements Specification (SRS) received from the client.

As a test support tool, Qase software will be used to manage test cases, run tests and report faults.

The tests are carried out in a "black box testing" approach without access to the source code or to the application database.

1.1 Versions

version	date	author	Description of the change
1	dd-mm-yyyy		
2			

1.2 Purposes of the document

This test plan describes the test approach, objectives, scope, schedule, risks, access, entry and exit criteria, test tree and test methodology, and the overall framework that will drive the test.

1.3 Planned timetable

תאריך הגשה	תאריך סיום	לוח
10.03.2024	12.01.2024	מסמך STP
	22.01.2024	פירוק פונקציונאלי
	29.01.2024	כתיבת דרישות וטסטים ב-Qase
	26.02.2024	הרצה ודיווח תקלות
	07.03.2024	מסמך STR
	11.03.2024 16:00	שליחת המצגת והצגתו

1.4 Team members

Team member name	Role
Elina Ein Eli	QA Tester
Benny Feigin	QA Tester
Natan Koren	QA Tester

1.5 Applicable documents

- ◀ Guidelines for submitting a project
- ◀ Specification document
- ◀ Document of Requirements

1.6 The testing environment

The system will run over the top 5 browsers at the time of the test:

Chrome, Edge, Firefox, Safari, Opera

The system will work properly even when activated through smartphones and tablets

Different screen sizes and resolutions.

Description of the system and its purpose

2.1 Description of the tested system

JPetStore demo is an online pet store.

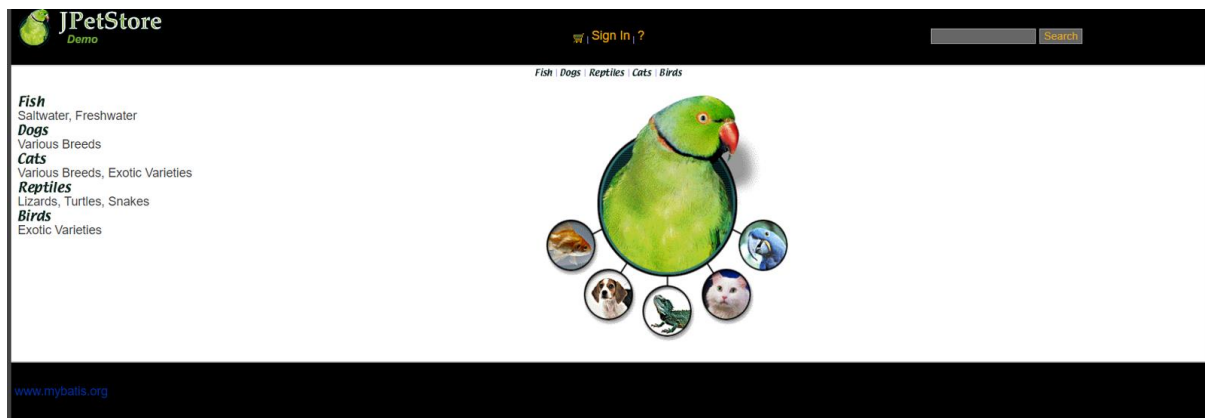
2.2 The purpose of the tested system

Like most electronic stores, you can browse and search the product catalog, select items to add to the shopping cart, correct the shopping cart and order the items in the shopping cart.

You can perform many of these actions without registering or log in into the app.

However, before you can order items you must log into the app.

For log in, you must have an account in the application, which was created when you registered for the application.



Terms and concepts

1. **GUI** – Graphical user interface. The design of the screens according to the Specification document
2. **Functional** - Functional tests of basic and central operations of the system
3. **Performance** - Performance tests that include load and performance tests
4. **Security** - Information security checks. Checking the protection of the system
5. **Authorization** – Checking permissions. Only a user who has been assigned permission to perform an action in the system will be allowed to perform it
6. **Usability** - Usability tests aim to verify that the use of the product is simple to operate, Friendly and intuitive
7. **Compatibility** - Compatibility testing aims to make sure that the product is suitable and works in its entirety in different operating systems, different browsers, different versions and different smartphone devices
8. **Sanity** - Sanity tests aim to quickly and efficiently identify if the basic functionality of the product works as required and the product is in a stable state and gives an indication as to the feasibility of entering an extended testing process
9. **Re-Test** – Repeated testing for bugs that have returned from a fix and changed to a fixed status
10. **Regression** - Regression tests aim to make sure that following any change made to the code such as: change, update, deletion, adding a new feature, fixing bugs, etc., other functional areas that have been properly tested have not been affected
11. **Black Box Testing** - Functional or non-functional tests that are carried out without reference to the internal structure of the component or system, but rather focus on testing the products
12. **Verification** - Verification in software testing is a process of checking documents, planning code and program, then verifying whether the software was built according to the requirements or not.

The main purpose of the verification process is to ensure the quality of software implementation, design, etc.

13. **Validation** - Validation in software testing is a process of checking and verifying whether the product/software actually meets the exact needs of the customer or not.

The process helps ensure that the software fulfills the intended use in an appropriate environment.

14. **STP** - The project planning document everything and the rest: strategy, topic tree schedule

15. **STD** - The test planning document in a detailed form

16. **STR** - Document summarizing the results of the tests after the three rounds

The testing strategy

BDD - Behavior Driven Development - Writing test scripts that are driven by the actions that the system users are supposed to perform.
The actions are planned as User Stories and are the basis for planning the test scripts.

After writing the STP document and based on it, the team will build the STD document.

After writing the STD document, two cycles of tests will be performed.

Entering all test cases and steps, preparing run tests and reporting faults to the Qase testing tool.

At the end of the two cycles of testing, a STR document will be submitted that will be created by the team leader, and will be approved by the testing manager.

Before the tests begin, sanity and functionality tests will be performed.

Then the following tests will be performed:

1. Usability tests
2. GUI tests
3. Functional tests
4. System tests
5. Security tests
6. Authorization tests
7. Compatibility tests
8. Re-Test tests
9. Regression tests

Entry and exit criteria

5.1 Entry criteria

- ◀ Different devices and browsers are available
- ◀ An online web store works on the various devices (version 1)
- ◀ All the planned sanity tests were passed successfully
- ◀ All requirements are covered by test scripts

5.2 Exit Criterion

- ◀ 100% test scripts run
- ◀ 80% tests passed successfully
- ◀ 0 critical bugs
- ◀ Low severity bugs only

The tree testing

4.3 Registration screen

4.3.37	As an unregistered user, I want to register after filling all the fields with correct values, except for the second address line
4.3.38	As a non-registered user, I would like to receive an error message on each field that I filled in incorrectly with details of the correct way in which the field should be filled in so that I can correct the input
4.3.39	As the site administrator, I want to check that a user with the same username has not registered before to avoid identification errors
4.3.40	As the site administrator, I want the phone field to contain only digits and the following signs:)(-+
4.3.41	As the site administrator, I want the email field to contain the @ character when preceded by at least one letter and followed by the server address (at least letter.letter)
4.3.42	As the site administrator, I want the zip code field to contain only digits, and be only 5-7 characters long
4.3.43	As the site administrator, I want the default value for the country to be USA
4.3.44	As the site administrator, I would like the option not to fill in the State field if a country other than the USA is listed in the State field
4.3.45	As the site administrator, I want the correct value of the fields: username, password, first name, password, address 1, address 2, city and country. will contain only the following characters: English uppercase and lowercase letters, spaces, hyphens,

	digits, underscores, slashes
4.3.46	As the site administrator, I want the username field to not start or end with a space
4.3.47	As the site administrator, I would like to be able to open an alphabetical list of countries
4.3.48	As an unregistered user, I would like to receive a notification that the registration was successful after registration
4.3.49	As an unregistered user, I want to automatically log into the site upon successful registration
4.3.50	As the site administrator, I want if the password field does not match the rewritten password, the registration will fail
4.3.51	As the site administrator, I want the cursor to return to the first field that was filled in improperly after the error message
4.3.52	As the site administrator, I want every time I enter the registration screen - all the fields will be empty, except for the fields whose defaults are set
4.3.53	As the site administrator, I want every time I enter the registration screen, the fields that have a default set to show default
4.3.54	As the site administrator, I want the default language to be English
4.3.55	As the site administrator I want the default favorite category to be birds
4.3.56	As the site administrator I want the default MyList and myBanner fields to be checked
4.3.57	As a registered user, I want to see the details with which I registered when entering the registration screen
4.3.58	As a registered user, I want the option to update my registration information
4.3.59	As the site administrator, I want the password and re-password fields to appear when typing in the form of asterisks
4.3.60	As the site administrator, I want the username to always start with a letter
4.3.61	As the site administrator, I want the username field to be at least two characters long
4.3.62	As the site administrator, I want the password field to be at least six characters long
4.3.63	As the site administrator, I want the password field to always start with a letter
4.3.64	As the site administrator, I want the password field to contain at least a lowercase letter, an uppercase letter and a number

4.4 Site login screen

4.4.65	As a registered user, I want to enter the website with a valid username and password.
4.4.66	As an unregistered user, I want the option to enter the registration screen if I haven't registered yet.

4.4.67	As the site administrator, I want it to be impossible to log in to make purchases without filling in all the details so that it is possible Send the animals to the customer.
4.4.68	As a registered user, I want to log in directly as a registered user on a second login to the website.

4.7 Animal screen

4.7.88	As a registered user, I would like to see the details of the selected animal: picture, subcategory description, item number, item name, subcategory name, quantity of items in stock, item price
4.7.89	As a non-registered user, I want to see the details of the selected animal: picture, subcategory description, item number, item name, subcategory name, quantity of items in stock, item price
4.7.90	As an unregistered user, I want the option to add the animal to the shopping cart
4.7.91	As a registered user I want the option to add the animal to the shopping cart
4.7.92	As the site administrator, I want the number of the item on the animal page to match the number on the subcategory page
4.7.93	As the site administrator, I want clicking on an item that is already in the shopping cart to increase the amount of items ordered from that item only by one
4.7.94	As the site administrator, I want if the item is not in stock - the number of items that will appear will be 0

4.8 shopping basket

4.8.95	As a registered user, I would like to see the complete order details, exactly as they were entered: the item numbers, the product numbers, the description of the items, their quantity in stock (in stock or not in stock).
4.8.96	As a non-registered user, I want to see the complete order details, exactly as they were entered: item numbers, product numbers, description of the items, quantity in stock (yes/no - is it in stock).
4.8.97	As a non-registered user, I want to see the price for each item, and calculate the price times the quantity.
4.8.98	As a registered user, I want to see the price for each item, and calculate the price times the quantity.
4.8.99	As an unregistered user I would like to see a calculation of the total amount to be paid.
4.8.100	As a registered user I would like to see a calculation of the total amount to be paid.
4.8.101	As a registered user, I want the option to update the quantity of items for each of the items.
4.8.102	As an unregistered user, I would like the option to update the quantity of items for each of the items.

4.8.103	As an unregistered user, I will request, after clicking the update button, the calculated price for each item. items and the general price will be updated.
4.8.104	As a registered user, I want the calculated price for each of the items and the general price to be updated after clicking the update button.
4.8.105	As a registered user, I want the option to remove one of the items and receive an automatic update of the final price.
4.8.106	As an unregistered user, I want the option to remove one of the items and receive an automatic update of the final price.
4.8.107	As an unregistered user, I want to proceed to payment by clicking a button "proceed to checkout".
4.8.108	As an unregistered user, I would like to be able to enter or register on the website after a purchase request.
4.8.109	As an unregistered user, I want to return to the shopping cart unchanged after registering and logging into the system.
4.8.110	As a registered user I want to proceed to payment by clicking a button "proceed to checkout".
4.8.111	As a registered user I want to be able to save the order details and shopping basket even if during the process I did sign out

4.11 Order Details Summary Screen

4.11.129	As a registered user, I would like to see a summary of the order details before the final confirmation: order date and time, billing address, delivery address, details of the animals ordered, final price
4.11.130	As a registered user, I want the billing address details to be the same as the details with which I registered on the website
4.11.131	As a registered user, I want the delivery address details to be the same as the details I registered with on the website if I did not select the "Send to a different address" check box on the order placement screen
4.11.132	As a registered user, I want the shipping address details to be the same as the details I filled in on the shipping address change screen
4.11.133	As a registered user, I want the details of the animals ordered to be the same as those that appeared in the shopping basket
4.11.134	As a registered user, I want the total price that appears to be the same as the final price that appeared in the shopping basket
4.11.135	As a registered user, I want the date and time of the order to correspond to the current date and time, according to the current time zone and the way the date and time are displayed as set in the operating system of the computer where the order was made

4.12 Order confirmation screen

4.12.136	As a registered user, I want to see a summary of the order details: order number, order date and order time
4.12.137	As a registered user, I want to see the credit card details with which I paid - the type of card, its number and its expiration date
4.12.138	As a registered user I want the credit card number to appear with asterisks except for the last 4 digits
4.12.139	As a registered user, I want the billing address details to be the same as the details with which I registered on the website
4.12.140	As a registered user, I want the delivery address details to be the same as the details I registered with on the website if I did not select the "Send to a different address" check box on the order placement screen
4.12.141	As a registered user, I want the shipping address details to be the same as the details I filled in on the shipping address change screen
4.12.142	As a registered user, I want the details of the animals ordered to be the same as those that appeared in the shopping basket
4.12.143	As a registered user, I want the total price that appears to be the same as the final price that appeared in the shopping basket
4.12.144	As a registered user, I want the date and time of the order to correspond to the current date and time, according to the current time zone and the way the date and time are displayed as set in the operating system of the computer where the order was made
4.12.145	As the site administrator, I want the message: "thank you; your order has been submitted" to appear in the upper left part of the screen
4.12.146	As a registered user, I want the option to print the order summary
4.12.147	As a registered user, I want the option to save the order details on the local computer

Fault reporting and management

Fault reporting and management process:

7.1 Fault classification:

- ◀ Functionality - system performance
- ◀ Recommendation for change/improvement - the system's specification or behavior does not match the tester's logic
- ◀ Characterization - lack or insufficiently detailed characterization

Faults discovered during the tests are documented and marked with a "severity level"

7.2 The possible levels of severity:

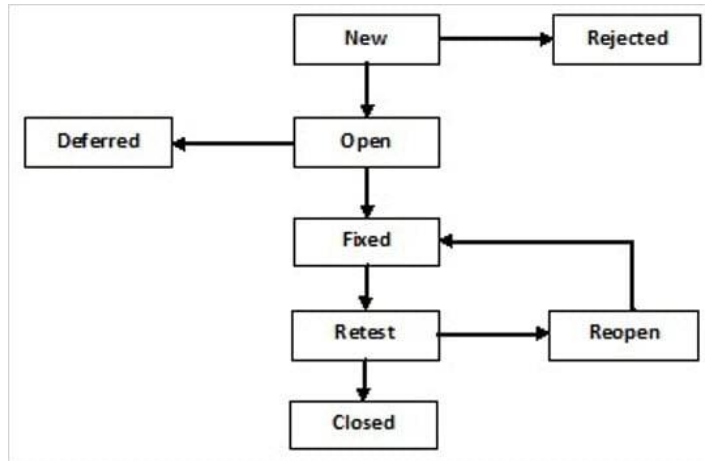
- ◀ Critical - disabling the system
- ◀ Serious - shutdown of a business process without work around
- ◀ Medium - Disabling a business process when there is a work around or a malfunction that does not disable a business process
- ◀ Low - a malfunction that does not interfere with the functioning of the system

7.3 Prioritizing the fault according to Priority

7.4 Determining who is responsible for the malfunction

The test results will be recorded in the STR document





Risk Management

#	risk	Level of risk	Description of the damage	prevention plan
1	Internet connection not working	High	It will not be possible to enter the online store and perform tests	Activating a "hot spot" through the smartphone
2	Power outage	High	It will not be possible to enter the online store and perform tests	nothing
3	Tester in Sick leave	medium	The testing part of that tester will not be performed on time	Dividing the requirements between the remaining testers or focusing on the most critical things in the remaining limited time
4	After software update, user data will be deleted	medium	Existing user data will be deleted in every software update, bad user experience	Importing user data to the new versions