

TEST PLAN\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Revision History**

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| --- | --- | --- | --- |
| **Date** | **Description** | **Author** | **Comments** |
| Issued: | Test Plan for Dedeman version ST3CR | Auth. Name | Test plan version 1.0 (initial version) |
| 19.04.24 | Test Plan for **AUTO** Module pages**:**  **TRAILERS, BRAKE FLUID,** and **ADDITIVES** | Catalin Radu | ST3CR |

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**1.Introduction**

DEDEMAN is an E-commerce application which is meant to facilitate the business to client relationship by promoting online product and services purchasing and advertising..

**1.1 Project Objective**

The objective of testing this software application is to increase the trust in the quality of the product, by finding the defects and evaluating the application risks

All these informations regarding the testing process and the level of quality of the application (after the improvement process is complete) are sent back to the stakeholders to be reviewed and further decisions.

**1.2 Functionalities in scope**

For this version of the application the functionalities in the scope of testing of the **AUTO Module** differs depending on the rights of the user.

The AUTO Module will be described from the perspective of a normal / **unregistered user (USER)** or as a **registered user (REG. USER)**

The **USER** can:

-Access application main page   
-Choose one of the store conveniently located and view the product availability for the particular store branch (or view the complete product list when store location is not selected)  
-Add the desired items to the Shopping Card  
-Compare 2 or more products  
-Apply filters by: Brand, Type, Height, Width, Length, or Price  
-Sort the product list by: Availability, Price, (Low to High, High to Low), Most recent, Special Offers  
-See, add or remove items from the Shopping Cart  
  
  
The **REG. USER** additional benefits:  
  
- Post comments on the items purchased  
-” Add to Favorites” option on selected products  
- Saved Customer Delivery and Payment details when Checking Out and placing the order  
- Saved orders status and history

* Throughout the testing process we will perform functional testing and some types of non-functional testing (like usability testing), positive testing and negative testing and also, as needed, we will perform retesting and regression testing.

* Some other types of testing that might be performed if necessary are smoke testing and sanity testing.

* Some other types and techniques of testing will be decided accordingly after requirement analysis.

* Testing will be performed at a system testing level.
* The tests will be executed on the top 4 used browsers: **Chrome, Mozilla Firefox, Microsoft Edge, Apple Safari.** If time will be available we will extend tests on **Opera** and **Brave** browsers

**1.3 Functionalities and tests out of scope**

* All the other modules except **AUTO Module: TRAILERS, BRAKE FLUID** and **ADDITIVES** product pages list will not be tested throughout this project (for which this the test plan is being done)
* Non-functional testing like performance (stress testing, load testing, volume testing, scalability testing, spike testing) and security is beyond the scope of this project.
* No QA support for mobile applications developed. Only web applications will be tested.
* Automation testing is beyond scope

**2. Test process**

**2.1 Test planning**

**Roles and responsibilities**

|  |  |
| --- | --- |
| Role 1- \_\_\_\_\_\_\_\_\_\_ | Test Lead - Will monitor the proper functionality of the test process, the involvement of the teams and the reach of the defined deadlines |
| Role 2- Catalin Radu | will test: Main page > Select store location |
| Role 3- Catalin Radu | will test: Login for reg. users |
| Role 4- Catalin Radu | will test: Trailers page > Will verify the Search button consistency to product no.’s and type |
| Role 5- Catalin Radu | will test: Trailers page > Select add or remove items from the shopping cart |
| Role 6 - Catalin Radu | will test: Trailers page > Compare two or more items |
| Role 7 - Catalin Radu | will test: Trailers page -> Add items to favorites (available only for reg. users) |
| Role 8 - Catalin Radu) | will test: Trailers page -> See orders history (available only for reg. users) |
| Role 9 - Catalin Radu | will test: Trailers page -> See favorite items (available only for reg. users) |
| Role 10 - Catalin Radu | will test: Trailers page -> post comment for purchased items (available only for reg. users) |
| Role 11 - Catalin Radu | will test: Trailers page -> Set price alert for items (available only for reg. users) |
| Role 12- Catalin Radu | will test: Trailers page -> Apply price filters for items |
| Role 13- Catalin Radu | will test: Trailers page -> Order items by: availability, price: ascending, price: descending, newest, special offers |
| Role 14- Catalin Radu | will test: Trailers page -> Verify the Ads-On links functionalities |
| Role 15- Catalin Radu | will test: Brake Fluid page > Will verify the Search button consistency to product no.’s and type |
| Role 16- Catalin Radu | will test: Brake Fluid page > Select, add or remove items from the shopping cart |
| Role 17 - Catalin Radu | will test: Brake Fluid page > Compare two or more items |
| Role 18 - Catalin Radu | will test: Brake Fluid page -> Add items to favorite (available only for reg. users) |
| Role 19 - Catalin Radu) | will test: Brake Fluid page -> See orders history (available only for reg. users) |
| Role 20 - Catalin Radu | will test: Brake Fluid page -> See favorite items (available only for reg. users) |
| Role 21 - Catalin Radu | will test: Brake Fluid page -> post comment for purchased items (available only for reg. users) |
| Role 22 - Catalin Radu | will test: Brake Fluid page -> Set price alert for items (available only for reg. users) |
| Role 23- Catalin Radu | will test: Brake Fluid page -> Apply price filters for items |
| Role 24- Catalin Radu | will test Brake Fluid page -> Order items by: availability, price: ascending, price: descending, newest, special offers |
| Role 25- Catalin Radu | will test: Brake fluid page -> Verify the Ads-On links functionalities |
| Role 26- Catalin Radu | will test: Additives page > Will verify the Search button consistency to product no.’s and type |
| Role 27- Catalin Radu | will test: Additives page > Select add or remove items from the shopping cart |
| Role 28 - Catalin Radu | will test: Additives page > Compare two or more items |
| Role 29 - Catalin Radu | will test: Additives page -> Add items to favorites (available only for reg. users) |
| Role 30 - Catalin Radu) | will test: Additives page -> See orders history (available only for reg. users) |
| Role 31 - Catalin Radu | will test: Additives page -> See favorite items (available only for reg. users) |
| Role 32 - Catalin Radu | will test: Additives page -> post comment for purchased items (available only for reg. users) |
| Role 33 - Catalin Radu | will test: Additives page -> Set price alert for items (available only for reg. users) |
| Role 34- Catalin Radu | will test: Additives page -> Apply price filters for items |
| Role 35- Catalin Radu | will test Additives page -> Order items by: availability, price: ascending, price: descending, newest, special offers |
| Role 36- Catalin Radu | will test: Additives page -> Verify the Ads-On links functionalities |

**Entry criteria:**

* Testing environment is up and running (being an already live application, we will have the environment ready even before the implementation step)
* Business requirements are completed by the analysis team and are delivered to the appropriate testing team for evaluation
* Potential project risks are detected and mitigated
* Roles and responsibilities are allocated
* Test plan should be finalized before entering the next phase of testing
* Define the objectives of testing and the accepted level of quality

**Exit criteria:**

* 90%  or more of the tests are passed
* No critical issues have status open
* All detected errors have been reported and closed
* The budget was reached
* The deadline was reached
* The objectives were fulfilled
* The product usage documentation has been finalized with the scenarios evaluated during the testing phase
* Test completion report has been created and sent to the stakeholders
* Product risks have been identified and mitigated

**Project risks:**

* The team does not have the proper knowledge or experience in order to guarantee the desired level of quality for the application
* Not enough time has been allocated in order to properly test and cover all the functionalities in scope
* All that the data that is going to be used will have to be created explicitly in the scope of testing, which will cut off from the time allocated for testing, generating a risk of not reaching the deadline

**Product risks:**

* All the data that is going to be used will be test data, which will not give us an experience of the application close enough to the ones that the user will experience
* Taking into account that only two modules are in the scope of testing, the rest of the modules will still be at risk of not fulfilling the user needs

**2.2 Test analysis**

* In this phase we will analyze the business requirements that were provided and we will create test conditions based on the received requirements.

**2.3 Test design**

* In  this phase we will create the test cases based on the previously defined test conditions to ensure that we will be covering all the functionalities that are in scope of this project.
* The test data that will be needed will be identified in this phase based on the identified data necessities from the created test cases

**2.4 Test implementation**

* We make sure that all the test data is available and reviewed (test data= email examples, password examples, different type of currency, different types of credit cards)
* We make sure that the environment setup is up and running
* We make sure that we have all the needed access and permissions to all the systems involved in the validation process
* We prioritize the tests based on risks (if known) and business priority

**2.5 Test execution**

* The tests will be executed on the top 4 used browsers: **Chrome, Mozilla Firefox, Microsoft Edge, Apple Safari**. If time will be available we will extend tests on **Opera** and **Brave** browsers
* We will create bug reports when the expected results that were defined in the test cases are different from the actual results
* We will perform retesting and regression testing to make sure that all the bugs have been fixed and no previously working functionality was not affected by the changes
* We will generate the test status reports once a week and send them to the management team in order to provide them with means to monitor the testing process and take measures in case new risks are identified

**2.6 Test closure**

* We will evaluate the exit criteria and we will make sure that it was fulfilled in order to green light the launching of the new product version into the production environment
* We will generate the test completion report and send it to stakeholders in order to inform them about the testing process results and enhance them with the ability to make informed decisions with regards to the product launching
* All the product risks will be detected and mitigated (a solution was found in order to reduce the probability of them to arise) or a contingency plan has been set in place
* All the performed test cases will be executed in the test management tool and all the remaining bugs that have been retested and fixed have been closed
* Regression testing will be performed and no other issues have been detected
* Learned lessons will be gathered and collected into a common improvement plan in order to enhance the improvement of the next testing processes

**2.7 Test monitoring and control**

* We will evaluate the test status reports and monitor them all throughout the testing process in order to ensure a smooth testing and team collaboration and in order to make sure that new risks are identified in time and managed accordingly
* In case new risks will appear they will be mitigated or a contingency plan will be set in place to make sure that the negative effects will not stop us from fulfilling the testing objectives that were defined in the planning phase

**3.Test deliverables**

The following test deliverables will be provided by the end of the testing process

and sent to the stakeholders in order to create the basis of informed decision:

* Test plan
* Test conditions
* Test cases
* Daily test summary report
* Traceability matrix
* Test case results
* Bugs report
* Test completion report

**4. Schedule**

* The testing process will take place over a period of 1.5 months and will involve all the activities defined in the previous section
* All the resources will be adapted accordingly in case new testing resources are detected as necessary

**NOTE**:

**DEDEMAN Complete Administrative User Guide**

( to be added in the space bellow for reference )