**REVISION HISTORY**

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 28/12/2023 | 1.0 | Added General Information | Arda Onur |
| 29/12/2013 | 1.1 | Added Detailed test results | Arda Onur,Meriç Okçu,Kaan İşmen,  Ömer Özmeteler,Buğra Bedir. |

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1. **Introduction**
   1. ***Document overview***

This document is the software test report of the testing phase of the AVEC software development project. It contains the results of tests performed on the developed system.

* 1. ***References***
     1. **Project References**

| # | Document Identifier | Document Title |
| --- | --- | --- |
| [STP] | AVEC-STP | AVEC Software Test Plan |
| [SRS] | AVEC-SRS | AVEC Software Requirments Spesification |
| [STP] | AVEC-SDP | AVEC Software Development Plan |
| [SDD] | AVEC-SDD | AVEC Software Detailed Design |

* 1. ***Conventions***



|  |  |  |  |
| --- | --- | --- | --- |
| **Test ID** | **T-SRS-AVEC** | **Comment** | **Decision** |
| Test desc. |  |  |  |
| Verif. Req. |  |  |  |
| Init. Cond. |  |  |  |
| Tests inputs |  |  |  |
| Data collection |  |  |  |
| Tests outputs |  |  |  |
| Assum & constr |  |  |  |
| Expected results and criteria |  |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and eval crit** | **Result** |
| 1 |  |  |  |
| 2 |  |  |  |

The table above will be used for test results.

1. **Overview of Tests Results**
   1. ***Tests log***

The AVEC software (version 1.0) was tested on the WINDOWS 11 and MACOS test platform located in both platforms, from the 22/12/2013 to the 27/01/2024. The tests of the test phase (ref. software test plan) where executed.

Testers where:

ARDA ONUR

MERİÇ OKÇU

* 1. ***Rationale for decision***

After executing a test, the decision is defined according to the following rules:

* **OK:** The test sheet is set to "OK" state when all steps are in "OK" state. The real result is compliant to the expected result.
* **NOK:** The test sheet is set to "NOK" state when all steps of the test are set to "NOK" state or when the result of a step differs from the expected result.
* **NOT RUN:** Default state of a test sheet not yet executed.
* **NOT COMPLETED:** The test sheet is set to "Not Completed" state when at least one step of the test is set "Not Run" state.

Tests results are listed in §3.

* 1. ***Overall assessment of tests***

The user screen has been created, but in some screen sizes, the components on the screen remain in different places than expected. When opening the application, the startup time is very long and very unstable.

Statistics about tests:

* %93,75 of tests OK,
* 0% of tests NOK
* 0% of tests POK
* 0%of tests NR
* 6,25% of tests NC

Statistics about bugs and enhancements:

* Total 4
* 1 of Critical
* 1 Number of Major
* 0 of minor
* 2 of enhancements
  1. ***Impact of test environment***

JUNIT, the program we used to test Java codes, was very efficient. We were able to test codes quickly with the external library.

1. **Detailed Tests Results**

For each executed test, this document contains:

* Test identification;
* Test title;
* Test decision;
* A comment containing additional information or problems encountered during execution and differences with the test procedure.

For the problems leading to a bug, the bug ID is reported in the result of the step where problem was encountered.

* 1. ***Test Results of AVEC***

|  |  |  |  |
| --- | --- | --- | --- |
| **Test ID** | **T-SRS-AVEC-1** | **Comment** | **Decision** |
| Test desc. | User creates new account. |  | **OK** |
| Verif. Req. | **SRS-AVEC-001** | TEST |  |
| Init. Cond. | AVEC E-Commerce Software has started. |  |  |
| Tests inputs | Username ,Password and e-mail. |  |  |
| Data collection | N/A |  |  |
| Tests outputs | N/A |  |  |
| Assum & constr |  |  |  |
| Expected results and criteria | User created a new account. |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and eval crit** | **Result** |
| 1 | Users open software. | Software successfully opened. | OK |
| 2 | Users type their username, password and email. | User created a new account. | OK |

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| **Test ID** | **T-AVEC-TEST-2** | **Comment** | **Decision** |
| Test description | AVEC throws the exception when a user is trying to create with the same username |  | **OK** |
| Verified Requirement | **SRS-AVEC-001.1** | Demonstration |  |
| Initial conditions | There should be a username/e-mail already existing as the user is trying to create. |  |  |
| Tests inputs | N/A |  |  |
| Data collection actions | N/A |  |  |
| Tests outputs | N/A |  |  |
| Assumptions and constraints | N/A |  |  |
| Expected results and criteria | If the user tries creating 2 or more identical accounts, an error box should appear saying “That username/e-mail already exists.” and won't able to add to the database. |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** | **Result** |
| 1 | User creates an account with a username and e-mail. | The user just created an account and information of that account has been added to the database. | OK |
| 2 | User creates another account with the information. | System throws an error box pops up saying that “the account already exists. If there are more than one account otherwise the account created ” | OK |

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| **Test ID** | **T-AVEC-TEST-3** | **Comment** | **Decision** |
| Test description | AVEC will allow users to put their products on sale. |  | **OK** |
| Verified Requirement | **SRS-AVEC-002** | Test |  |
| Initial conditions | Users must have an account. |  |  |
| Tests inputs | N/A |  |  |
| Data collection actions | N/A |  |  |
| Tests outputs | N/A |  |  |
| Assumptions and constraints | N/A |  |  |
| Expected results and criteria | Products on sale |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** | **Result** |
| 1 | User opens the product sale page. | Product selling page must be open. | OK |
| 2 | User fills all required boxes. | product will be on sale. | OK |

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| --- | --- | --- | --- |
| **Test ID** | **T-AVEC-TEST-4** | **Comment** | **Decision** |
| Test description | AVEC shall require the price and product description and product name to be added to the product. |  | **OK** |
| Verified Requirement | **SRS-AVEC-002.1** | Test |  |
| Initial conditions | Software must be on running status. Users must have an account. |  |  |
| Tests inputs | 3000, “TXT2000”, “Graphic Card” |  |  |
| Data collection actions | N/A |  |  |
| Tests outputs | N/A |  |  |
| Assumptions and constraints | User logged in to his/her account. |  |  |
| Expected results and criteria | Product is Ready displayed. |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** | **Result** |
| 1 | User opens a product selling page. | Product selling page must be open. | OK |
| 2 | User fills all required boxes. | If all required boxes are filled, the system publishes the product on the page. Otherwise, it must show an exception for filling the required boxes. | OK |

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| **Test ID** | **T-AVEC-TEST-5** | **Comment** | **Decision** |
| Test description | AVEC provide to user searching ability to find product. |  | **OK** |
| Verified Requirement | **SRS-AVEC-003** | Test |  |
| Initial conditions | Software must be on running status. Users must have an account and be logged in. |  |  |
| Tests inputs | “TXT2000” |  |  |
| Data collection actions | N/A |  |  |
| Tests outputs | N/A |  |  |
| Assumptions and constraints | User logged in to his/her account. |  |  |
| Expected results and criteria | Product list must be displayed. |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** | **Result** |
| 1 | User opens the search page . | Searching Page opens. | OK |
| 2 | User writes the product name. | All products related to product name must be shown. | OK |

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| --- | --- | --- | --- |
| **Test ID** | **T-AVEC-TEST-6** | **Comment** | **Decision** |
| Test description | AVEC must list and present the relevant product from the database according to the product name entered. |  | **OK** |
| Verified Requirement | **SRS-AVEC-003.1** | Demonstration |  |
| Initial conditions | Software must be on running status. |  |  |
| Tests inputs | 3000, “TXT2000”, “Graphic Card” |  |  |
| Data collection actions | N/A |  |  |
| Tests outputs | N/A |  |  |
| Assumptions and constraints |  |  |  |
| Expected results and criteria | AVEC listed all related products from the database. |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** | **Result** |
| 1 | User opens the search page. | Product searching page opened. | OK |
| 2 | User writes the product name. | Software listed all related products on screen. | OK |

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| **Test ID** | **T-AVEC-TEST-7** | **Comment** | **Decision** |
| Test description | AVEC shall allow users to purchase the product. |  | **OK** |
| Verified Requirement | **SRS-AVEC-004** | Test |  |
| Initial conditions | Software must be on running status and users must be logged in. |  |  |
| Tests inputs | N/a |  |  |
| Data collection actions | N/A |  |  |
| Tests outputs | N/A |  |  |
| Assumptions and constraints |  |  |  |
| Expected results and criteria | Product is purchased . |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** | **Result** |
| 1 | User opens the search page. | Product searching page opened. | OK |
| 2 | User writes the product name. | Software listed all related products on screen. | OK |
| 3 | User clicks the purchase button. | Product purchased. | OK |

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| --- | --- | --- | --- |
| **Test ID** | **T-AVEC-TEST-8** | **Comment** | **Decision** |
| Test description | AVEC must control the user's balance according to the product which is tried to be bought by the user. |  | **OK** |
| Verified Requirement | **SRS-AVEC-004.1** | Analysis |  |
| Initial conditions | Software must be on running status. |  |  |
| Tests inputs | N/A |  |  |
| Data collection actions | N/A |  |  |
| Tests outputs | If balance is greater than product, AVEC shows notification product purchased, If not show error notification. |  |  |
| Assumptions and constraints |  |  |  |
| Expected results and criteria | AVEC shows notification according to the situation and the status section in the database should be changed to purchased. |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** | **Result** |
| 1 | User opens the searching page. | Product searching page opened | OK |
| 2 | User writes the product name. | The software listed all related products on the screen. | OK |
| 3 | User tries to buy a product. | The system checks that there is sufficient balance, if it is sufficient, the product status in the database is changed to purchased. If the balance is not sufficient, an error notification is printed on the screen. | OK |

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| **Test ID** | **T-AVEC-TEST-9** | **Comment** | **Decision** |
| Test description | AVEC allows users to update their balance. |  | **OK** |
| Verified Requirement | **SRS-AVEC-005** | Test |  |
| Initial conditions | Software must be on running status. The user must log in. |  |  |
| Tests inputs | N/A |  |  |
| Data collection actions | N/A |  |  |
| Tests outputs | If balance is greater than product, AVEC shows notification product purchased, If not shows error notification. |  |  |
| Assumptions and constraints | Users on the balance updating page. |  |  |
| Expected results and criteria | Users balance updated. |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** | **Result** |
| 1 | User opens the balance page. | Balance page opened. | OK |
| 2 | User presses the update button. | The empty box is shown on the page. | OK |
| 3 | User types the new balance. | Balance is updated. | OK |

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| --- | --- | --- | --- |
| **Test ID** | **T-AVEC-TEST-10** | **Comment** | **Decision** |
| Test description | AVEC checks whether the value entered in the Balance box is negative. |  | **OK** |
| Verified Requirement | **SRS-AVEC-005.1** | Analysis |  |
| Initial conditions | Software must be on running status. |  |  |
| Tests inputs | -3999, 4000 |  |  |
| Data collection actions | N/A |  |  |
| Tests outputs | N/A |  |  |
| Assumptions and constraints | N/A |  |  |
| Expected results and criteria | If the entered value is not negative, the system will update the balance from the database if it is negative, it will warn the screen and output it. |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** | **Result** |
| 1 | User opens the balance page. | Balance page opened. | OK |
| 2 | User presses the update button | The empty box is shown on the page. | OK |
| 3 | User types the new balance and the system checks the value. | If the value is positive, the balance will be updated, If not, the system shows an error. | OK |

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| **Test ID** | **T-AVEC-TEST-11** | **Comment** | **Desicion** |
| Test description | AVEC allows users to see product descriptions. |  | **OK** |
| Verified Requirement | **SRS-AVEC-006** | Demonstration |  |
| Initial conditions | Software must be on running status and the user must be logged in. |  |  |
| Tests inputs | N/A |  |  |
| Data collection actions | N/A |  |  |
| Tests outputs | N/A |  |  |
| Assumptions and constraints | N/A |  |  |
| Expected results and criteria | Description of Product is shown by user. |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** | **Result** |
| 1 | User opens the searching page. | The Search page is opened. | OK |
| 2 | User presses the product. | The detailed product page is opened and the product description is shown by the user. | OK |

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| **Test ID** | **T-AVEC-TEST-12** | **Comment** | **Desicion** |
| Test description | AVEC allows users to change their password. |  | **OK** |
| Verified Requirement | **SRS-AVEC-007** | Test |  |
| Initial conditions | Software must be on running status and the user must be logged in. |  |  |
| Tests inputs | “1234567”, “1234567” |  |  |
| Data collection actions | N/A |  |  |
| Tests outputs | N/A |  |  |
| Assumptions and constraints | N/A |  |  |
| Expected results and criteria | Password changed successfully. |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** | **Result** |
| 1 | User opens the user management page. | The User Management page is opened. | **OK** |
| 2 | User clicks change password. | The two boxes are shown. | **OK** |
| 3 | User types the new password twice. | The password changed. | **OK** |

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| --- | --- | --- | --- |
| **Test ID** | **T-AVEC-TEST-13** | **Comment** | **Decision** |
| Test description | AVEC will check the two passwords entered are the same. |  | **OK** |
| Verified Requirement | **SRS-AVEC-007.1** | Analysis |  |
| Initial conditions | Software must be running.. |  |  |
| Tests inputs | N/A |  |  |
| Data collection actions | N/A |  |  |
| Tests outputs | N/A |  |  |
| Assumptions and constraints | N/A |  |  |
| Expected results and criteria | Password must change on the database |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** | **Result** |
| 1 | User opens the user management page. | The User Management page is opened. | OK |
| 2 | User clicks change password | The two boxes are shown. | OK |
| 3 | User types new password twice | System takes those two passwords. | OK |
| 4 | System must check whether two passwords are the same. | If both of the passwords are the same, Software will change the password on the database, If not, the system throws an exception. | OK |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test ID** | **T-AVEC-TEST-14** | **Comment** | **Decision** |
| Test description | AVEC will allow the user to change a description of the Product. |  | **NOT COMPLETED** |
| Verified Requirement | **SRS-AVEC-8** | Test |  |
| Initial conditions | Software must be running. |  |  |
| Tests inputs | N/A |  |  |
| Data collection actions | N/A |  |  |
| Tests outputs | N/A |  |  |
| Assumptions and constraints | Product is on sale. |  |  |
| Expected results and criteria | User changed the description of Product. |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** | **Result** |
| 1 | User opens the products page. | The product page is opened. | OK |
| 2 | User clicks the change product description button. | The box is shown. | NOT RUN |
| 3 | User types new description. | The product description is changed. | NOT RUN |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test ID** | **T-AVEC-TEST-15** | **Comment** | **Decision** |
| Test description | AVEC will allow the user to give a star product. |  | **OK** |
| Verified Requirement | **SRS-AVEC-009** | Test |  |
| Initial conditions | Software must be running. |  |  |
| Tests inputs | N/A |  |  |
| Data collection actions | N/A |  |  |
| Tests outputs | N/A |  |  |
| Assumptions and constraints | Product is on sale. |  |  |
| Expected results and criteria | User gives a star to the product. |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** | **Result** |
| 1 | User opens the products page. | The product page is opened | OK |
| 2 | User chooses a number to give a star. | The star of the product is changed according to the user’s star. | OK |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test ID** | **T-AVEC-TEST-16** | **Comment** | **Decision** |
| Test description | AVEC will calculate the average star number of products. |  | **OK** |
| Verified Requirement | **SRS-AVEC-009.1** | Analysis |  |
| Initial conditions | Software must be running. |  |  |
| Tests inputs | N/A |  |  |
| Data collection actions | N/A |  |  |
| Tests outputs | N/A |  |  |
| Assumptions and constraints | Product is on sale. |  |  |
| Expected results and criteria | Software calculated the average stars of the product and changed the star number. |  |  |
| **Test procedure** |  |  |  |
| **Step number** | **Operator actions** | **Expected result and evaluation criteria** | **Result** |
| 1 | User opens the products page. | Product page is opened. | OK |
| 2 | User chooses a number to give a star. | The system calculated the average star point and changed the star number on the database. | OK |